



**Chevron**

93 OCT 28 AM 10:41

October 26, 1993

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

Mr. Scott Seery  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

**Marketing Department**  
Phone 510 842 9500

**Re: Former Chevron Station # 9-5607, 5269 Crow Canyon Road, Castro Valley, CA**  
Attached groundwater monitoring report (GTI, 5/21/93)  
Attached groundwater monitoring report (GTI, 9/14/93)

Dear Mr. Seery:

Attached are reports dated May 21, 1993 and September 14, 1993, which were prepared by Chevron's consultant, Groundwater Technology Inc. (GTI), to describe quarterly groundwater monitoring performed at the subject site on April 19, 1993 and July 21, 1993.

During GTI's May site visit the measured groundwater gradient direction was generally toward the southwest. Ten of the site monitoring wells were sampled and analyzed for the presence of TPHGas and BTEX constituents. The levels of dissolved hydrocarbons detected in monitoring wells C-1, C-3, C-6, C-12, and C-15 were consistent with levels detected during previous site monitoring events. No dissolved hydrocarbons were detected in monitoring wells C-8, C-10A, C-10B, C-11, and C-16.

In July, the measured direction of groundwater flow was toward the southwest. Fifteen of the sixteen site monitoring wells were sampled and analyzed for the presence of TPHGas and BTEX constituents. The measured levels of dissolved hydrocarbon constituents were similar to those detected during previous site monitoring events.

Chevron's groundwater extraction and treatment system continues to operate to control the migration of and to remove dissolved hydrocarbons from the shallow groundwater. I am looking forward to your concurrence of our proposal to expand the groundwater extraction system as presented in the August 31, 1992 report sent to your office.

If you have any questions or comments, I can be reached at (510) 842-8695.

Sincerely,

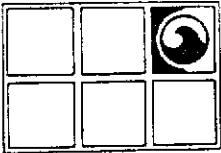
Brett L. Hunter  
Environmental Engineer  
Site Assessment and Remediation



Attachments

cc: Rich Hiett, San Francisco Bay RWQCB, Oakland, CA  
Kevin Hinckley, 5269 Crow Canyon Road, Castro Valley, CA 94546  
Bette Owen, Chevron USA, Products Company, San Ramon, CA (w/o attachments)

MAY 25 '93 J.M.M.



# GROUNDWATER TECHNOLOGY, INC.

1401 Halyard Drive, Suite 140, West Sacramento, CA 95691 (916) 372-4700

FAX (916) 372-8781

Project No. 02070 4228

May 21, 1993

Mr. Brett L. Hunter  
Chevron U.S.A. Products Company  
2410 Camino Ramon  
San Ramon, CA 94583-0804

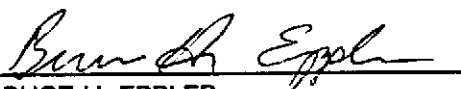
**RE: QUARTERLY MONITORING AND SAMPLING ACTIVITIES  
FORMER CHEVRON SERVICE STATION 9-5607  
5269 CROW CANYON ROAD  
CASTRO VALLEY, CALIFORNIA**

Dear Mr. Hunter:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected at the above-referenced site on April 19, 1993. Fourteen site-related groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons (SP). A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. After measuring DTW, ten of the fourteen wells were purged and sampled. The groundwater samples were analyzed for dissolved benzene, toluene, ethylbenzene and xylenes (BTEX), and total petroleum hydrocarbons-as-gasoline (TPH-G). Results of the chemical analyses are summarized in Table 1. Laboratory reports and chain-of-custody manifests are included in Attachment I. All purge water generated during the sampling process was processed through the on-site groundwater treatment system.

Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments please call our West Sacramento office.

Sincerely,  
**Groundwater Technology, Inc.**  
Written/Submitted by

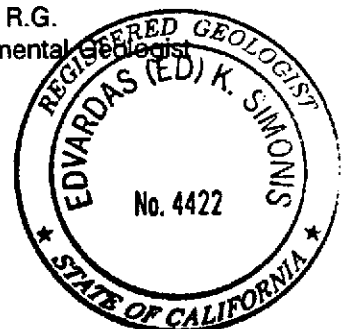
  
BRUCE H. EPPLER  
Environmental Geologist  
Project Manager

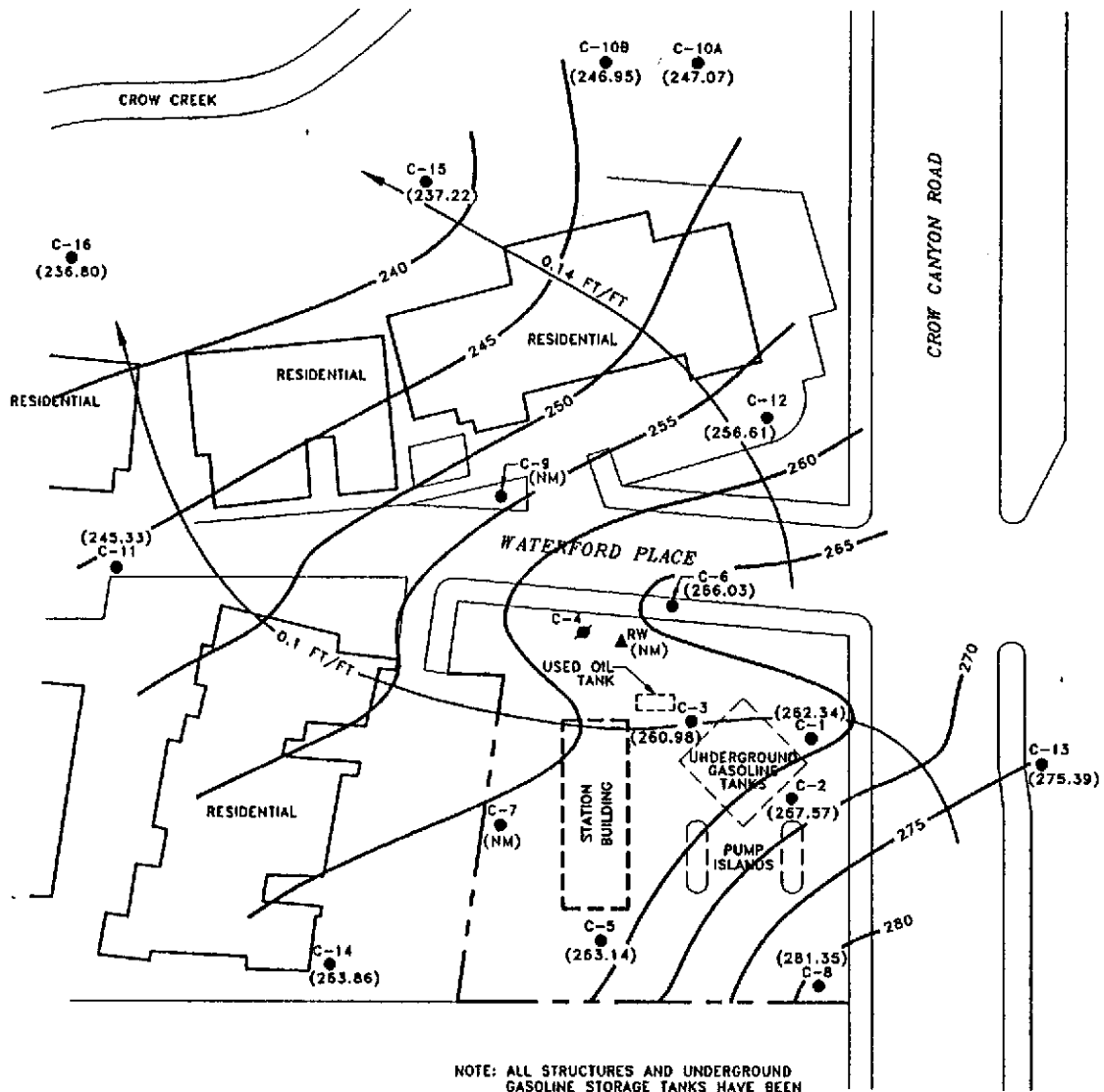
PR DSB  
DSB/BHE/EKS:rb  
Attachments  
4228QTR2.LTR

**Groundwater Technology, Inc.**  
Reviewed/Approved by



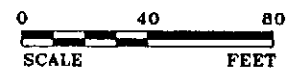
E. K. SIMONIS, R.G.  
Senior Environmental Geologist





**LEGEND**

- PROPERTY LINE
- MONITORING WELL
- ▲ RECOVERY WELL
- ⊙ ABANDONED MONITORING WELL
- ( ) POTENTIOMETRIC SURFACE ELEVATION (FT.)  
(DATUM: MEAN SEA LEVEL)
- (NM) NOT MONITORED
- ~ POTENTIOMETRIC SURFACE CONTOUR  
INTERVAL = 5 FEET
- 0.1 FT/FT ESTIMATED GROUNDWATER FLOW  
DIRECTION AND APPROXIMATE GRADIENT



NOTE: ALL STRUCTURES AND UNDERGROUND GASOLINE STORAGE TANKS HAVE BEEN REMOVED AND DASHED FOR CLARITY.

REV. NO. 1	DATE: 5/18/93	ACAD. FILE: 4228SMB/POT0493	
<b>POTENTIOMETRIC SURFACE MAP</b> <b>APRIL 19, 1993</b>			
CLIENT: CHEVRON U.S.A. PRODUCTS CO. FORMER S.S. NO. 9-5607			PM <i>BAC</i>
LOCATION: 5269 CROW CANYON ROAD CASTRO VALLEY, CALIFORNIA			PE/NO. <i>CA</i>
DESIGNED DSB	DRAWN AJK	PROJECT NO.: 02070-4228	FIGURE: 1

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-1 283.46	03/26/85	--	--	--	--	--	--	22.83	0.00	260.63
	07/03/86	--	--	--	--	--	--	23.58	0.00	259.88
	03/26/87	--	--	--	--	--	--	20.50	0.00	262.96
	03/28/88	--	--	--	--	--	--	26.00	0.00	257.46
	03/10/89	--	--	--	--	--	--	15.86	0.00	267.60
	04/03/89	--	--	--	--	--	--	16.85	0.00	266.61
	05/08/89	--	--	--	--	--	--	22.68	0.00	260.78
	06/05/89	--	--	--	--	--	--	24.66	0.00	258.80
	07/12/90	--	--	--	--	--	--	25.56	0.00	257.90
	08/10/90	--	--	--	--	--	--	25.89	0.00	257.57
	09/13/89	3,600	1,100	1,000	3,500	22,000	--	26.55	0.00	256.91
	10/04/89	--	--	--	--	--	--	25.24	0.00	258.22
	11/03/89	--	--	--	--	--	--	25.03	0.00	258.43
	12/04/89	2,000	550	610	1,600	13,000	--	26.37	0.00	257.09
	03/07/90	--	--	--	--	--	--	22.48	0.00	260.98
	03/09/90	--	--	--	--	--	--	--	--	--
	06/12/90	3,500	1,400	840	4,000	21,000	--	24.35	0.00	259.11
	09/20/90	2,100	1,200	860	5,000	23,000	--	26.27	0.00	257.19
	12/20/90	760	410	260	1,100	8,200	--	22.59	0.00	260.87
	03/27/91	--	--	--	--	--	--	19.08	0.00	264.38
06/18/91	--	--	--	--	--	--	27.11	0.00	256.35	
09/12/91	--	--	--	--	--	--	28.22	0.00	255.24	
01/23/92	--	--	--	--	--	--	26.65	0.00	256.81	
04/13/92	3,100	1,300	850	3,100	38,000	--	22.16	0.00	261.30	
08/03/92	1,300	470	550	1,600	13,000	ND	26.15	0.00	257.31	
10/22/92	3,500	1,400	1,500	4,300	24,000	--	26.79	0.00	256.67	
01/18/93	6,900	8,900	3,100	23,000	370,000	--	18.60	0.00	264.86	
04/19/93	8,000	7,000	1,400	10,000	51,000	--	21.12	0.00	262.34	
C-2 284.37	03/26/85	--	--	--	--	--	--	--	--	--
	07/03/86	--	--	--	--	--	--	19.69	0.00	264.68
	03/26/87	--	--	--	--	--	--	15.45	0.00	268.92
	03/28/88	--	--	--	--	--	--	20.92	0.00	263.45
	03/10/89	--	--	--	--	--	--	12.80	0.00	271.57
	04/03/89	--	--	--	--	--	--	14.26	0.00	270.11
	05/08/89	--	--	--	--	--	--	18.42	0.00	265.95
	06/05/89	--	--	--	--	--	--	20.09	0.00	264.28
	07/12/90	--	--	--	--	--	--	20.79	0.00	263.58
	08/10/90	--	--	--	--	--	--	21.40	0.00	262.97
	09/13/89	62	4	10	14	320	--	21.86	0.00	262.51
	10/04/89	--	--	--	--	--	--	19.89	0.00	264.48
	11/03/89	--	--	--	--	--	--	20.76	0.00	263.61
	12/04/89	240	37	66	130	1,000	--	20.82	0.00	263.55
	03/07/90	--	--	--	--	--	--	17.83	0.00	266.54
	03/09/90	280	35	27	50	390	--	17.83	0.00	266.54
	06/12/90	260	34	28	55	700	--	19.89	0.00	264.48
	09/20/90	--	--	--	--	--	--	21.97	0.00	262.40
	12/20/90	--	--	--	--	--	--	17.73	0.00	266.64
	03/27/91	--	--	--	--	--	--	15.10	0.00	269.27
06/18/91	--	--	--	--	--	--	22.68	0.00	261.69	
09/12/91	--	--	--	--	--	--	23.92	0.00	260.45	
01/23/92	--	--	--	--	--	--	21.24	0.00	263.13	
04/13/92	120	76	17	72	1,100	--	17.54	0.00	266.83	
08/03/92	--	--	--	--	--	--	22.05	0.00	262.32	
10/22/92	--	--	--	--	--	--	23.03	0.00	261.34	
01/18/93	6.4	ND	ND	ND	70	--	14.86	0.00	269.51	
04/19/93	--	--	--	--	--	--	16.80	0.00	267.57	

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-3 285.98	03/26/85	---	---	---	---	---	---	---	---	---
	07/03/86	---	---	---	---	---	---	26.04	0.00	259.94
	03/26/87	---	---	---	---	---	---	25.64	0.00	260.34
	03/28/88	---	---	---	---	---	---	28.82	0.00	257.16
	03/10/89	---	---	---	---	---	---	22.78	0.00	263.20
	04/03/89	---	---	---	---	---	---	22.71	0.00	263.27
	05/08/89	---	---	---	---	---	---	25.95	0.00	260.03
	06/05/89	---	---	---	---	---	---	27.62	0.00	258.36
	07/12/90	---	---	---	---	---	---	28.29	0.00	257.69
	08/10/90	---	---	---	---	---	---	28.46	0.00	257.52
	09/13/89	1,400	6,800	2,300	10,000	60,000	---	29.33	0.00	256.65
	10/04/89	---	---	---	---	---	---	28.97	0.00	257.01
	11/03/89	---	---	---	---	---	---	28.72	0.00	257.26
	12/04/89	1,300	3,300	1,400	2,700	56,000	---	29.01	0.00	256.97
	03/07/90	---	---	---	---	---	---	27.69	0.00	258.29
	03/09/90	1,100	5,700	1,600	7,900	42,000	---	27.69	0.00	258.29
	06/12/90	1,400	7,100	3,400	16,000	160,000	---	28.09	0.00	257.89
	09/24/90	850	7,700	2,000	10,000	53,000	---	29.18	0.00	256.80
	12/20/90	1,200	5,400	5,400	33,000	520	---	28.27	0.00	257.71
	03/27/91	1,300	3,100	1,200	11,000	92,000	---	24.80	0.00	261.18
	06/18/91	---	---	---	---	---	---	30.84	0.00	255.14
09/12/91 #	---	---	---	---	---	---	31.64	0.03	254.94	
01/23/92	---	---	---	---	---	---	30.52	SHEEN	255.46	
04/13/92 #	---	---	---	---	---	---	26.94	0.01	259.04	
08/03/92	1,300	2,800	3,100	17,000	220,000	ND	30.00	0.00	255.98	
10/22/92 #	SP	SP	SP	SP	SP	---	30.62	0.03	255.38	
01/18/93	2,400	5,300	10,000	61,000	1,000,000	---	23.91	0.00	262.07	
04/19/93	33,000	22,000	1,600	9,200	94,000	---	25.00	0.00	260.98	
C-4 273.01	03/26/85	---	---	---	---	---	---	15.14	0.00	257.87
	07/03/86	---	---	---	---	---	---	15.97	0.00	257.64
	03/26/87	---	---	---	---	---	---	---	---	---
	03/28/88	---	---	---	---	---	---	18.04	0.00	254.97
	03/10/89	---	---	---	---	---	---	---	---	---
	04/03/89	---	---	---	---	---	---	13.34	0.00	259.67
	05/08/89	---	---	---	---	---	---	15.60	0.00	257.41
	06/05/89	---	---	---	---	---	---	16.51	0.00	256.50
	07/12/90	---	---	---	---	---	---	16.99	0.00	256.02
	08/10/90	---	---	---	---	---	---	17.27	0.00	255.74
	09/13/89	21,000	3,100	3,200	11,000	57,000	---	18.16	0.00	254.85
	10/04/89	---	---	---	---	---	---	18.24	0.00	254.77
	11/03/89	---	---	---	---	---	---	18.17	0.00	254.84
	12/04/89	17,000	2,200	2,800	9,800	48,000	---	18.45	0.00	254.56
	03/07/90	---	---	---	---	---	---	17.20	0.00	255.81
	03/09/90	20,000	2,300	2,800	11,000	43,000	---	17.20	0.00	255.81
	06/12/90	21,000	2,400	4,000	16,000	82,000	---	16.66	0.00	256.35
09/24/90	---	---	---	---	---	---	18.11	0.00	254.90	
12/20/90**	---	---	---	---	---	---	---	---	---	

**Table 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-5 287.95	03/26/85	--	--	--	--	--	--	25.33	0.00	262.62
	07/03/86	--	--	--	--	--	--	26.41	0.00	261.54
	03/26/87	--	--	--	--	--	--	24.96	0.00	262.99
	03/28/88	--	--	--	--	--	--	29.80	0.00	258.15
	03/10/89	--	--	--	--	--	--	25.89	0.00	262.06
	04/03/89	--	--	--	--	--	--	24.38	0.00	263.57
	05/08/89	--	--	--	--	--	--	27.80	0.00	260.15
	06/05/89	--	--	--	--	--	--	29.42	0.00	258.53
	07/12/90	--	--	--	--	--	--	29.86	0.00	258.09
	08/10/90	--	--	--	--	--	--	29.77	0.00	258.18
	09/13/89	ND	ND	ND	ND	310	--	30.95	0.00	257.00
	10/04/89	--	--	--	--	--	--	31.48	0.00	256.47
	11/03/89	--	--	--	--	--	--	31.32	0.00	256.63
	12/04/89	ND	ND	ND	ND	ND	--	31.70	0.00	256.25
	03/07/90	--	--	--	--	--	--	30.28	0.00	257.67
	03/09/90	ND	ND	ND	ND	ND	ND	30.28	0.00	257.67
	06/12/90	ND	ND	ND	ND	ND	90	30.48	0.00	257.47
	09/24/90	ND	ND	ND	ND	ND	ND	31.78	0.00	256.17
	12/20/90	ND	ND	1.0	0.7	170	--	33.29	0.00	254.66
	03/27/91	--	--	--	--	--	--	27.98	0.00	259.97
	06/18/91	--	--	--	--	--	--	32.52	0.00	255.43
	09/12/91	--	--	--	--	--	--	33.37	0.00	254.58
	01/23/92	--	--	--	--	--	--	32.67	0.00	255.28
04/13/92	ND	ND	0.7	ND	140	--	28.48	0.00	259.47	
08/03/92	ND	ND	ND	ND	ND	ND	32.50	0.00	255.45	
10/22/92	--	--	--	--	--	--	33.98	0.00	253.97	
01/18/93	6.6	2.2	3.4	2.2	230	--	27.02	0.00	260.93	
04/19/93	--	--	--	--	--	--	24.81	0.00	263.14	
C-6 275.28	03/26/85	--	--	--	--	--	--	16.74	--	--
	07/03/86	--	--	--	--	--	--	17.46	0.00	257.82
	03/26/87	--	--	--	--	--	--	18.37	0.00	256.91
	03/28/88	--	--	--	--	--	--	29.84	0.00	245.44
	03/10/89	--	--	--	--	--	--	14.44	0.00	260.84
	04/03/89	--	--	--	--	--	--	14.44	0.00	260.84
	05/08/89	--	--	--	--	--	--	17.16	0.00	258.12
	06/05/89	--	--	--	--	--	--	18.51	0.00	256.77
	07/12/90	--	--	--	--	--	--	18.71	0.00	256.57
	08/10/90	--	--	--	--	--	--	19.32	0.00	255.96
	09/13/89	5,600	3,000	2,400	10,000	47	--	19.95	0.00	255.33
	10/04/89	--	--	--	--	--	--	19.87	0.00	255.41
	11/03/89	--	--	--	--	--	--	19.35	0.00	255.93
	12/04/89	8,100	1,800	1,700	7,500	40,000	--	19.59	0.00	255.69
	03/07/90	--	--	--	--	--	--	18.39	0.00	256.89
	03/09/90	23,000	5,900	3,400	17,000	73,000	--	18.39	0.00	256.89
	06/12/90	19,000	6,500	3,400	16,000	85,000	--	18.87	0.00	256.41
	09/24/90	15,000	3,200	2,600	11,000	72,000	--	19.99	0.00	255.29
	12/20/90	11,000	4,200	3,400	16,000	100,000	--	21.57	0.00	253.71
	03/27/91	11,000	4,400	2,300	11,000	100,000	--	16.32	0.00	258.96
	06/18/91	--	--	--	--	--	--	23.33	0.00	251.95
	09/12/91	--	--	--	--	--	--	23.96	0.00	251.32
	01/23/92	--	--	--	--	--	--	12.08	0.00	263.20
04/13/92	--	--	--	--	--	--	19.85	SHEEN	255.43	
08/03/92	16,000	1,100	2,300	15,000	120,000	ND	14.72	0.00	260.56	
10/22/92	7,400	920	1,800	14,000	63,000	--	14.91	0.00	260.37	
01/18/93	13,000	1,600	2,700	12,000	77,000	--	15.44	0.00	259.84	
04/19/93	14,000	1,100	2,400	9,100	56,000	--	9.25	0.00	266.03	

**Table 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-7  270.70	03/26/85	---	---	---	---	---	---	9.61	---	---
	07/03/86	---	---	---	---	---	---	10.74	0.00	259.96
	03/26/87	---	---	---	---	---	---	10.08	0.00	260.62
	03/26/88	---	---	---	---	---	---	13.79	0.00	256.91
	03/10/89	---	---	---	---	---	---	10.42	0.00	260.28
	04/03/89	---	---	---	---	---	---	9.14	0.00	261.56
	05/08/89	---	---	---	---	---	---	11.91	0.00	258.79
	06/05/89	---	---	---	---	---	---	11.54	0.00	259.16
	07/12/90	---	---	---	---	---	---	13.45	0.00	257.25
	08/10/90	---	---	---	---	---	---	13.37	0.00	257.33
	09/13/89	1.3	ND	10	ND	410	---	14.60	0.00	256.10
	10/04/89	---	---	---	---	---	---	15.17	0.00	255.53
	11/03/89	---	---	---	---	---	---	15.28	0.00	255.42
	12/04/89	1	ND	5	ND	1,000	---	15.70	0.00	255.00
	03/07/90	---	---	---	---	---	---	14.22	0.00	256.48
	03/09/90	2.8	2.4	3.5	2	590	---	14.22	0.00	256.48
	06/12/90	ND	5	8.2	3.2	1,200	---	14.18	0.00	256.52
	09/24/90	1.4	1.9	1.4	2.2	400	---	15.44	SHEEN	255.26
	09/24/90D	ND	2.4	1.4	1.5	580	---	15.44	SHEEN	255.26
	12/20/90	ND	6.5	4.7	9.3	2,300	---	17.08	0.00	253.62
	03/27/91	ND	2.4	9.1	3	980	---	12.65	0.00	258.05
	06/18/91	---	---	---	---	---	---	16.44	0.00	254.26
	09/12/91	ND	3.1	6.5	2.7	1,200***	---	17.05	0.00	253.65
01/23/92	---	---	---	---	---	---	16.92	0.00	253.78	
04/13/92	ND	1	7.8	1.2	890	---	13.00	0.00	257.70	
08/03/92	---	---	---	---	---	---	---	---	---	
10/22/92**	---	---	---	---	---	---	---	---	---	
01/18/93**	---	---	---	---	---	---	---	---	---	
04/19/93	---	---	---	---	---	---	---	---	---	
C-8  288.40	03/26/85	---	---	---	---	---	---	8.68	---	---
	07/03/86	---	---	---	---	---	---	13.89	0.00	274.51
	03/26/87	---	---	---	---	---	---	6.01	0.00	282.39
	03/26/88	---	---	---	---	---	---	10.66	0.00	277.74
	03/10/89	---	---	---	---	---	---	6.61	0.00	281.79
	04/03/89	---	---	---	---	---	---	6.46	0.00	281.94
	05/08/89	---	---	---	---	---	---	8.97	0.00	279.43
	06/05/89	---	---	---	---	---	---	10.88	0.00	277.52
	07/12/90	---	---	---	---	---	---	12.15	0.00	276.25
	08/10/90	---	---	---	---	---	---	12.46	0.00	275.94
	09/13/89	ND	ND	ND	ND	ND	---	12.78	0.00	275.62
	10/04/89	---	---	---	---	---	---	12.51	0.00	275.89
	11/03/89	---	---	---	---	---	---	14.63	0.00	273.77
	12/04/89	0.6	0.6	ND	1	64	---	9.59	0.00	278.81
	03/07/90	---	---	---	---	---	---	8.80	0.00	279.60
	03/09/90	ND	ND	ND	ND	ND	---	8.80	0.00	279.60
	06/12/90	2.5	1.2	1	1.4	120	---	8.94	0.00	279.46
	09/24/90	---	---	---	---	---	---	13.54	0.00	274.86
	12/20/90	---	---	---	---	---	---	9.33	0.00	279.07
	03/27/91	0.7	ND	0.7	1.9	54	---	8.10	0.00	282.30
	06/18/91	---	---	---	---	---	---	11.96	0.00	276.44
	09/12/91	ND	ND	ND	ND	ND	---	13.60	0.00	274.80
	09/12/91D	ND	ND	ND	ND	ND	---	13.60	0.00	274.80
01/23/92	---	---	---	---	---	---	24.20	0.00	264.20	
04/13/92	ND	ND	ND	ND	ND	---	8.35	0.00	280.05	
08/03/92	ND	ND	ND	ND	ND	ND	12.58	0.00	275.82	
10/22/92	ND	ND	ND	ND	ND	---	13.10	0.00	275.30	
01/18/93	ND	ND	ND	ND	ND	---	6.12	0.00	282.28	
04/19/93	ND	ND	ND	ND	ND	---	7.05	0.00	281.35	



**Table 1**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-9 268.46	07/03/86	--	--	--	--	--	--	13.89	0.00	254.57
	03/26/87	--	--	--	--	--	--	13.74	0.00	254.72
	03/28/88	--	--	--	--	--	--	14.99	0.00	253.47
	03/10/89	--	--	--	--	--	--	13.39	0.00	255.07
	04/03/89	--	--	--	--	--	--	12.84	0.00	255.62
	05/08/89	--	--	--	--	--	--	14.38	0.00	254.08
	06/05/89	--	--	--	--	--	--	15.36	0.00	253.10
	07/12/90	--	--	--	--	--	--	15.65	0.00	252.81
	08/10/90	--	--	--	--	--	--	15.80	0.00	252.66
	09/13/89	14,000	1,100	2,800	4,200	42,000	--	16.53	0.00	251.83
	10/04/89	--	--	--	--	--	--	16.52	0.00	251.94
	11/03/89	--	--	--	--	--	--	16.51	0.00	251.95
	12/04/89	11,000	670	2,500	3,800	36,000	--	16.79	0.00	251.67
	03/07/90	--	--	--	--	--	--	16.22	0.00	252.24
	03/09/90	12,000	940	3,000	4,700	28,000	--	16.22	0.00	252.24
	06/12/90	11,000	1,600	2,300	4,800	39,000	--	14.88	0.00	253.58
	09/24/90	13,000	1,600	3,700	6,800	120,000	--	16.30	0.00	252.16
	12/20/90	9,300	560	2,800	3,300	51,000	--	17.23	0.00	251.23
	12/20/90D	12,000	580	2,800	3,500	44,000	--	17.23	0.00	251.23
	03/27/91	3,400	5,000	1,600	5,600	56,000	--	13.78	0.00	254.68
	06/18/91	--	--	--	--	--	--	18.64	0.00	249.82
	09/12/91 #	--	--	--	--	--	--	--	--	--
01/23/92 #	--	--	--	--	--	--	--	--	--	
04/13/92 #	--	--	--	--	--	--	--	--	--	
08/03/92 #	--	--	--	--	--	--	--	--	--	
10/22/92 #	--	--	--	--	--	--	--	--	--	
01/18/93 #	--	--	--	--	--	--	--	--	--	
04/19/93 #	--	--	--	--	--	--	--	--	--	
C-10A 264.84	03/07/90	--	--	--	--	--	--	20.21	0.00	244.63
	03/09/90	1.6	0.7	0.8	3.5	ND	--	--	--	--
	06/12/90	ND	ND	ND	ND	ND	--	19.70	0.00	245.14
	09/24/90	ND	ND	ND	ND	ND	--	19.54	0.00	245.30
	12/20/90	ND	ND	ND	ND	ND	--	19.84	0.00	245.00
	03/27/91	--	--	--	--	--	--	18.01	0.00	246.83
	06/18/91	ND	ND	ND	ND	ND	--	20.16	0.00	244.68
	09/12/91	ND	ND	ND	ND	ND	--	20.57	0.00	244.27
	01/23/92	ND	ND	ND	ND	ND	--	20.67	0.00	244.17
	04/13/92	0.9	1.3	ND	1	53	--	19.40	0.00	245.44
	08/03/92	ND	ND	ND	ND	ND	ND	19.81	0.00	245.03
	10/22/92	ND	ND	ND	0.5	ND	--	19.83	0.00	245.01
	01/18/93	ND	ND	ND	ND	ND	--	17.04	0.00	247.80
	04/19/93	ND	ND	ND	ND	ND	--	17.77	0.00	247.07
C-10B 264.85	03/07/90	--	--	--	--	--	--	21.44	0.00	243.41
	06/12/90	ND	ND	ND	ND	ND	--	19.94	0.00	244.91
	09/24/90	ND	ND	ND	ND	ND	--	19.77	0.00	245.08
	12/20/90	ND	ND	ND	ND	ND	--	20.00	0.00	244.85
	03/27/91	--	--	--	--	--	--	18.23	0.00	246.62
	06/18/91	--	--	--	--	--	--	20.44	0.00	244.41
	09/12/91	ND	ND	ND	ND	ND	--	20.82	0.00	244.03
	01/23/92	ND	ND	ND	ND	ND	--	20.92	0.00	243.93
	04/13/92	ND	ND	ND	ND	ND	--	19.68	0.00	245.17
	08/03/92	ND	ND	ND	ND	ND	ND	20.07	0.00	244.78
	10/22/92	ND	ND	ND	ND	ND	--	20.12	0.00	244.73
	01/18/93	3.3	11	2.1	8.9	60	--	17.36	0.00	247.49
	04/19/93	ND	ND	ND	ND	ND	--	17.90	0.00	246.95

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TDC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-11 265.30	03/07/90	---	---	---	---	---	---	22.74	0.00	242.56
	03/09/90	1.2	0.7	ND	1.4	ND	---	---	---	---
	06/12/90	ND	ND	ND	ND	ND	---	21.98	0.00	243.32
	09/24/90	ND	ND	ND	ND	ND	---	21.88	0.00	243.42
	12/20/90	ND	ND	ND	ND	ND	---	23.18	0.00	242.12
	03/27/91	ND	ND	ND	1.5	ND	---	21.52	0.00	243.78
	06/18/91	---	---	---	---	---	---	21.90	0.00	243.40
	09/12/91	ND	ND	ND	ND	ND	---	22.70	0.00	242.60
	01/23/92	ND	ND	ND	ND	ND	---	23.46	0.00	241.84
	04/13/92	ND	ND	ND	ND	ND	---	21.57	0.00	243.73
	08/03/92	ND	ND	ND	ND	ND	ND	22.67	0.00	242.63
	10/22/92	ND	ND	ND	ND	ND	---	23.29	0.00	242.01
	01/18/93	ND	1.2	ND	2.2	ND	---	21.36	0.00	243.94
	04/19/93	ND	ND	ND	ND	ND	---	19.97	0.00	245.33
	C-12 269.66	03/07/90	---	---	---	---	---	---	14.92	0.00
03/09/90		230	140	33	180	1,400	---	---	---	---
06/12/90		190	71	18	73	720	---	14.79	0.00	254.87
09/24/90		1.1	ND	ND	0.6	ND	---	15.72	0.00	253.94
12/20/90		210	26	8.2	23	810	---	15.26	0.00	254.40
03/27/91		350	220	52	210	2,900	---	12.11	0.00	257.55
06/18/91		---	---	---	---	---	---	16.38	0.00	253.28
09/12/91		59	12	4.5	8.5	350	---	17.55	0.00	252.11
01/23/92		110	31	7.9	22	450	---	17.11	0.00	252.55
04/13/92		1,100	76	100	200	5,000	---	14.40	0.00	255.26
08/03/92		200	21	13	25	520	ND	15.83	0.00	253.83
10/22/92		310	66	35	56	1,300	---	16.14	0.00	253.52
01/18/93		1,200	430	220	610	5,600	---	11.70	0.00	257.96
04/19/93		600	99	96	170	2,000	---	13.05	0.00	256.61
C-13 284.32		03/07/90	---	---	---	---	---	---	11.18	0.00
	03/09/90	15	3.7	1	6.2	ND	---	---	---	---
	06/12/90	2.6	ND	ND	ND	ND	---	10.70	0.00	273.62
	09/24/90	2.4	ND	ND	ND	ND	---	11.60	0.00	272.72
	12/20/90	1.6	ND	ND	ND	ND	---	10.16	0.00	274.16
	03/27/91	---	---	---	---	---	---	7.64	0.00	276.88
	06/18/91	---	---	---	---	---	---	11.32	0.00	273.00
	09/12/91	ND	ND	ND	ND	ND	---	11.84	0.00	272.48
	01/23/92	---	---	---	---	---	---	10.55	0.00	273.77
	04/13/92	1	ND	ND	ND	ND	---	10.96	0.00	273.36
	08/03/92	ND	ND	ND	ND	ND	ND	10.90	0.00	273.42
	10/22/92	---	---	---	---	---	---	11.18	0.00	273.14
	01/18/93	54	10	5.4	12	290	---	7.40	0.00	276.92
04/19/93	---	---	---	---	---	---	8.93	0.00	275.39	
C-14 270.74	03/07/90	---	---	---	---	---	---	15.18	0.00	255.56
	03/09/90	ND	ND	ND	ND	ND	---	---	---	---
	06/12/90	ND	ND	ND	ND	ND	---	13.42	0.00	257.32
	09/24/90	ND	ND	ND	ND	ND	---	12.84	0.00	257.90
	12/20/90	1.7	0.7	ND	0.7	ND	---	16.72	0.00	254.02
	03/27/91	ND	ND	ND	1.3	ND	---	8.00	0.00	262.74
	06/18/91	---	---	---	---	---	---	15.21	0.00	255.53
	09/12/91	ND	ND	ND	ND	ND	---	15.61	0.00	255.13
	01/23/92	---	---	---	---	---	---	24.64	0.00	246.10
	04/13/92	ND	ND	ND	ND	ND	---	12.21	0.00	258.53
	08/03/92	ND	ND	ND	ND	ND	ND	14.64	0.00	256.10
	10/22/92	---	---	---	---	---	---	16.94	0.00	253.80
	01/18/93	ND	ND	ND	ND	ND	---	5.10	0.00	265.64
	04/19/93	---	---	---	---	---	---	6.88	0.00	263.86

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-15 246.15	03/07/90	--	---	---	---	---	---	11.10	0.00	235.05
	03/09/90	ND	1.4	0.5	0.6	410	---	---	---	---
	06/12/90	11	ND	ND	ND	420	---	10.78	0.00	235.37
	09/24/90	ND	1.5	ND	ND	430	---	10.93	0.00	235.22
	12/20/90	1.3	1.1	0.6	1.5	300	---	11.08	0.00	235.07
	03/27/91	4.6	1.1	ND	1	520***	---	8.50	0.00	237.65
	06/18/91	ND	1.1	ND	ND	290	---	10.83	0.00	235.32
	06/18/91D	ND	1.3	ND	ND	320	---	10.83	0.00	235.32
	09/12/91	ND	0.9	ND	ND	390***	---	11.05	0.00	235.10
	01/23/92	ND	0.6	ND	ND	210	---	10.80	0.00	235.35
	01/23/92D	1.2	0.8	ND	ND	190	---	10.80	0.00	235.35
	04/13/92	1.8	ND	ND	ND	490	---	9.58	0.00	236.57
	08/03/92	ND	2.1	0.7	1.3	640	ND	11.21	0.00	234.94
	10/22/92	ND	ND	ND	0.8	420	---	11.65	0.00	234.50
	01/18/93	7.0	3.0	2.9	6.7	640	---	7.12	0.00	239.03
04/19/93	6.0	2.0	0.7	ND	260***	---	8.93	0.00	237.22	
C-16 246.69	03/07/90	--	---	---	---	---	---	18.50	0.00	228.19
	03/09/90	ND	ND	ND	ND	ND	---	---	---	---
	06/12/90	ND	ND	ND	ND	ND	---	11.42	0.00	235.27
	09/24/90	ND	ND	ND	ND	ND	---	11.39	0.00	235.30
	12/20/90	ND	ND	ND	0.7	ND	---	11.57	0.00	235.12
	03/27/91	ND	ND	ND	1.3	ND	---	8.76	0.00	237.93
	03/27/91D	ND	ND	ND	1.2	ND	---	8.76	0.00	237.93
	06/18/91	ND	ND	ND	ND	ND	---	11.18	0.00	235.51
	09/12/91	ND	ND	ND	ND	ND	---	11.95	0.00	234.74
	01/23/92	ND	ND	ND	ND	ND	---	12.41	0.00	234.28
	04/13/92	ND	ND	ND	ND	ND	---	10.69	0.00	236.00
	08/03/92	ND	ND	ND	ND	ND	ND	12.20	0.00	234.49
	10/22/92	ND	ND	ND	ND	ND	---	12.60	0.00	234.09
	01/18/93	ND	ND	ND	ND	ND	---	9.00	0.00	237.69
	04/19/93	ND	ND	ND	ND	ND	---	9.89	0.00	236.80
RW 274.52	12/04/89	29,000	1,700	1,800	8,800	62,000	---	---	---	---
	03/07/90	---	---	---	---	---	---	18.50	0.00	256.02
	06/12/90	15,000	2,000	560	3,100	31,000	---	18.49	0.00	256.03
	09/24/90	---	---	---	---	---	---	---	---	---
	12/20/90	0.5	ND	ND	1.2	ND	---	---	---	---
	03/27/91	---	---	---	---	---	---	---	---	---
	06/18/91	---	---	---	---	---	---	---	---	---
	09/12/91#	---	---	---	---	---	---	---	---	---
	01/23/92#	---	---	---	---	---	---	---	---	---
	04/13/92#	---	---	---	---	---	---	---	---	---
	08/03/92#	---	---	---	---	---	---	---	---	---
	10/22/92#	---	---	---	---	---	---	---	---	---
	01/18/93#	---	---	---	---	---	---	---	---	---
	04/19/93#	---	---	---	---	---	---	---	---	---

**Explanation**

Top of casing and groundwater elevations are expressed as feet above mean sea level.

TPH-G = Total petroleum hydrocarbons as gasoline

SP = Separate-phase petroleum hydrocarbons

DTW = Depth to water

SPT = Separate-phase hydrocarbon thickness

WTE = Water table elevation (adjusted WTE = well elevation - (DTW - (SPT X 0.8)))

TOC = Top of casing

ppb = parts per billion

ND = Not detected at or above the minimum quantitation limit

-- = Not analyzed

NOTE: See laboratory reports for minimum quantitation limits.

D = Duplicate

\* = Not sampled due to insufficient water in well

\*\* = C-4: Well destroyed, C-7: Well could not be located

\*\*\* = Typical gasoline chromatographic pattern not present

# = Not sampled: Well adapted for on-site remediation system

## = Groundwater elevation corrected assuming 0.8 specific gravity for gasoline

Sampling frequency:

Quarterly: C-1, C-3, C-4, C-6, C-8, C-10A, C-10B,

C-11, C-12, C-15, and C-16.

Semi-annually: C-5, C-7, C-13, and C-14.

Annually: C-2.

**ATTACHMENT I**

**LABORATORY REPORTS  
AND  
CHAIN-OF-CUSTODY MANIFESTS**



**GROUNDWATER  
TECHNOLOGY**



# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

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Client Number: 02070  
Consultant Project Number: 02070  
Facility Number: 9-5607  
Project ID: 5269 Crow Canyon Rd.  
Castro Valley  
Work Order Number: C3-04-0318

May 4, 1993

Bruce Eppler  
Groundwater Technology, Inc.  
1401 Halyard Drive  
West Sacramento, CA 95691

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 04/20/93.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certificate numbers 194 and 1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

Eileen F. Bullen  
Laboratory Director

Client Number: 02070  
 Consultant Project Number: 02070  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Castro Valley  
 Work Order Number: C3-04-0318

**Table 1**

**ANALYTICAL RESULTS**

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		01	02	03	04
Client Identification		TB-LB	RINSATE	C-16	C-11
Date Sampled		04/19/93	04/19/93	04/19/93	04/19/93
Date Analyzed		05/01/93	05/01/93	05/01/93	05/01/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
BTEX, total	--	--	--	--	--
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		93.4	99.0	91.6	93.2

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. BFB Acceptability limits 70 - 130.

Client Number: 02070  
 Consultant Project Number: 02070  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Castro Valley  
 Work Order Number: C3-04-0318

**Table 1 (Continued)**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>**

GTEL Sample Number		05	06	07	08
Client Identification		C-10B	C-8	C-10A	C-12
Date Sampled		04/19/93	04/19/93	04/19/93	04/19/93
Date Analyzed		05/01/93	05/01/93	05/01/93	05/01/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	600
Toluene	0.5	<0.5	<0.5	<0.5	99
Ethylbenzene	0.5	<0.5	<0.5	<0.5	96
Xylene, total	0.5	<0.5	<0.5	<0.5	170
BTEX, total	--	--	--	--	970
TPH as Gasoline	50	<50	<50	<50	2000
Detection Limit Multiplier		1	1	1	5
BFB surrogate, % recovery		94.7	96.1	90.1	98.0

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. BFB Acceptability limits 70 - 130.

Client Number: 02070  
 Consultant Project Number: 02070  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Castro Valley  
 Work Order Number: C3-04-0318

**Table 1 (Continued)**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>**

GTEL Sample Number		09	10	11	12
Client Identification		C-1	C-3	C-6	C-15
Date Sampled		04/19/93	04/19/93	04/19/93	04/19/93
Date Analyzed		05/02/93	05/02/93	05/02/93	05/02/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	8000	33000	14000	6
Toluene	0.5	7000	22000	1100	2
Ethylbenzene	0.5	1400	1600	2400	0.7
Xylene, total	0.5	10000	9200	9100	<0.5
BTEX, total	--	26000	66000	27000	9
TPH as Gasoline	50	51000	94000	56000	260*
Detection Limit Multiplier		25	25	25	1
BFB surrogate, % recovery		94.6	96.2	93.7	83.1

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. BFB Acceptability limits 70 - 130.
- \* Hydrocarbon pattern is not characteristic of gasoline.



Client Number: 02070  
 Consultant Project Number: 02070  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Castro Valley  
 Work Order Number: C3-04-0318

**Table 1 (Continued)**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>**

GTEL Sample Number		050193GCM			
Client Identification		METHOD BLANK			
Date Sampled		--			
Date Analyzed		05/01/93			
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5			
Toluene	0.5	<0.5			
Ethylbenzene	0.5	<0.5			
Xylene, total	0.5	<0.5			
BTEX, total	--	--			
TPH as Gasoline	50	<50			
Detection Limit Multiplier		1			
BFB surrogate, % recovery		94.5			

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. BFB Acceptability limits 70 - 130.

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

Chevron Facility Number 9-5607  
 Facility Address 5269 Crow Canyon Rd Castro Valley  
 Consultant Project Number 02070-  
 Consultant Name Groundwater Technology  
 Address 1401 Halford Dr. W. Sacramento Ca.  
 Project Contact (Name) Bruce Expier  
 (Phone) 916-372-4700 (Fax Number) 916-372-8781

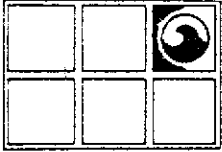
Chevron Contact (Name) Clint Rogers  
 (Phone) (916) 842-8658  
 Laboratory Name GTEL  
 Laboratory Release Number 8683910  
 Samples Collected by (Name) Jim John Miller-Cosby  
 Collection Date 4-19-93  
 Signature John Miller-Cosby

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (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)						
TB-65	01	✓ 2	✓ W	G	1300	HCL	Y	✓													
Rinsate	02	✓ 2			1310																
C-16	03	✓ 3			1320																
C-11	04	✓ 3			1390																
C-106	05	✓ 3			1350																
C-8	06	✓ 3			1400																
C-10a	07	✓ 3			1410																
C-12	08	✓ 3			1420																
C-1	09	✓ 3			1430																
C-3	10	✓ 3			1440																
C-6	11	✓ 3			1450																
C-15	17	✓ 3			1330																

NOTE:  
 Do NOT BILL  
 TB-LB SAMPLES  
 Deal on tract  
 3.8<sup>C</sup> dced  
 4/20/93  
 Remark

C3040318

Relinquished By (Signature) <u>John Miller-Cosby</u>	Organization <u>02320</u>	Date/Time <u>4/19/93</u>	Received By (Signature) <u>John Wahn</u>	Organization <u>GTEL</u>	Date/Time <u>4-20 1225</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <u>John Wahn</u>	Organization <u>GTEL</u>	Date/Time <u>4/20 1455</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Carina Belsky</u>		Date/Time <u>4/20/93 3:30</u>	



# GROUNDWATER TECHNOLOGY, INC.

1401 Halyard Drive, Suite 140, West Sacramento, CA 95691, (916) 372-4700

September 14, 1993

FAX (916) 372-8781  
Project No. 02070 4228

Mr. Brett L. Hunter  
Chevron U.S.A. Products Company  
2410 Camino Ramon  
San Ramon, CA 94583-0804


**RE: QUARTERLY MONITORING AND SAMPLING ACTIVITIES  
FORMER CHEVRON SERVICE STATION 9-5607  
5269 CROW CANYON ROAD  
CASTRO VALLEY, CALIFORNIA**

Dear Mr. Hunter:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected at the above-referenced site on July 21 and 22, 1993. Fifteen of the sixteen site-related groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons (SP). Monitoring well MW-9 has a pump in the well and was not able to be gauged or sampled. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. After measuring DTW, the wells were purged and sampled. The groundwater samples were analyzed for dissolved benzene, toluene, ethylbenzene and xylenes (BTEX), and total petroleum hydrocarbons-as-gasoline (TPH-G). Results of the chemical analyses are summarized in Table 1. Laboratory reports and chain-of-custody manifests are included in Attachment I. All purge water generated during the sampling process was processed through the on-site groundwater treatment system.

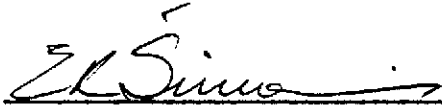
Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments please call our West Sacramento office.

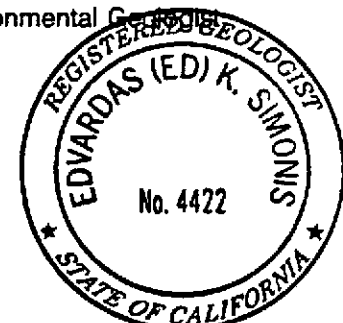
Sincerely,  
Groundwater Technology, Inc.  
Written/Submitted by

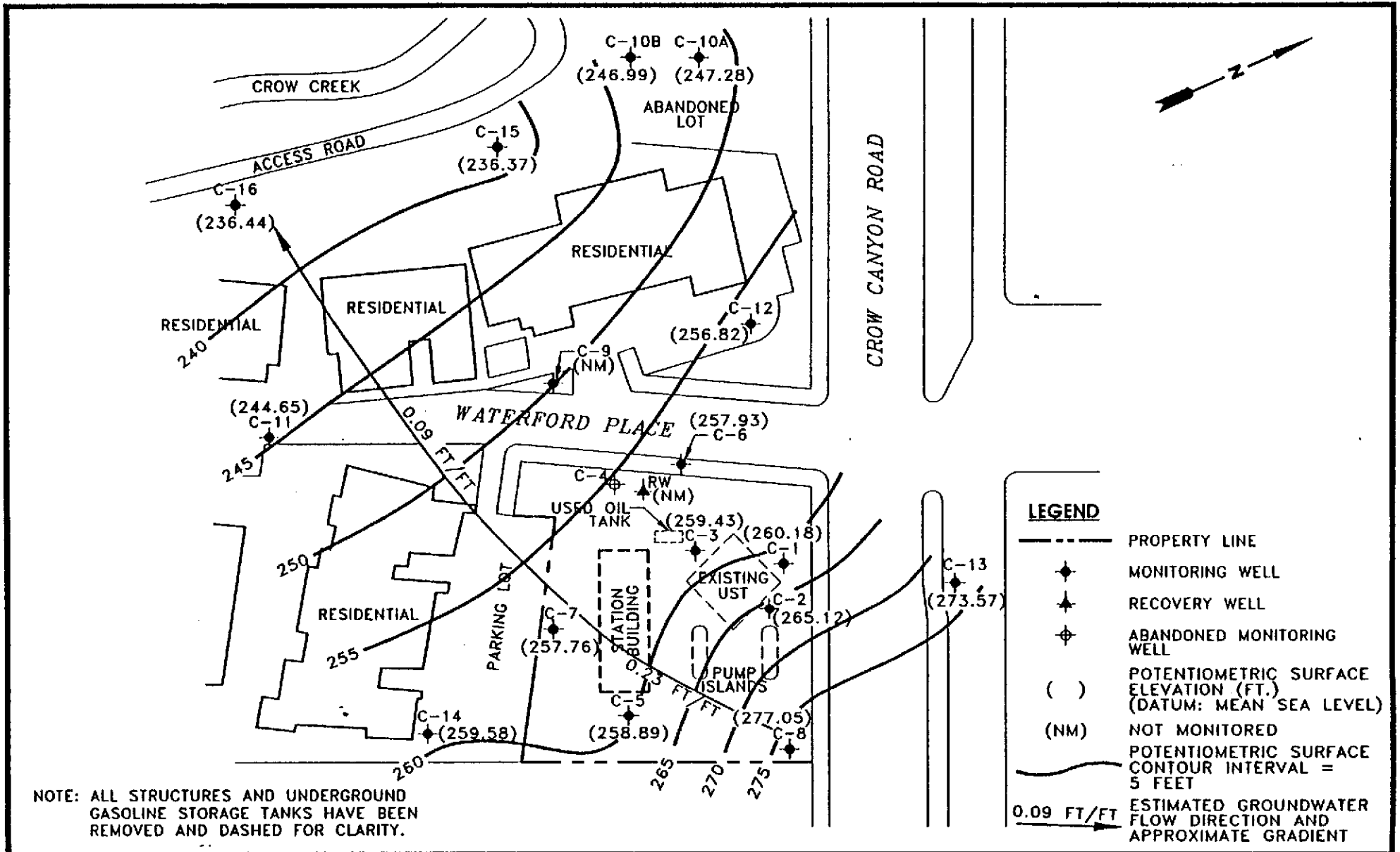
  
BRUCE H. EPPLER  
Environmental Geologist  
Project Manager

PR DSB  
DSB/BHE/EKS:r2  
Attachments  
42280TR3.LTR

Groundwater Technology, Inc.  
Reviewed/Approved by

  
E. K. SIMONIS, R.G.  
Senior Environmental Geologist





**GROUNDWATER TECHNOLOGY**



**CLIENT:**  
CHEVRON U.S.A. PRODUCTS CO.  
FORMER S.S. NO. 9-5607

**LOCATION:**  
5269 CROW CANYON ROAD  
CASTRO VALLEY, CALIFORNIA

**POTENTIOMETRIC SURFACE MAP  
JULY 21, 1993**

**FILE:** 4228SMA/4228PSM

**PROJECT NO.:** 02070-4228

**DES.:** DSB    **DET.:** AJK    **DATE:** 9/7/93

**PM:** *Base*

**PE/RG:** *zls*

**FIGURE:** 1

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-1 283.46	03/26/85	--	--	--	--	--	--	22.83	0.00	260.63
	07/03/86	--	--	--	--	--	--	23.58	0.00	259.88
	03/26/87	--	--	--	--	--	--	20.50	0.00	262.96
	03/28/88	--	--	--	--	--	--	26.00	0.00	257.46
	03/10/89	--	--	--	--	--	--	15.86	0.00	267.60
	04/03/89	--	--	--	--	--	--	16.85	0.00	266.61
	05/08/89	--	--	--	--	--	--	22.68	0.00	260.78
	06/05/89	--	--	--	--	--	--	24.66	0.00	258.80
	07/12/90	--	--	--	--	--	--	25.56	0.00	257.90
	08/10/90	--	--	--	--	--	--	25.89	0.00	257.57
	09/13/89	3,600	1,100	1,000	3,500	22,000	--	26.55	0.00	256.91
	10/04/89	--	--	--	--	--	--	25.24	0.00	258.22
	11/03/89	--	--	--	--	--	--	25.03	0.00	258.43
	12/04/89	2,000	550	610	1,600	13,000	--	26.37	0.00	257.09
	03/07/90	--	--	--	--	--	--	22.48	0.00	260.98
	03/09/90	--	--	--	--	--	--	--	--	--
	06/12/90	3,500	1,400	840	4,000	21,000	--	24.35	0.00	259.11
	09/20/90	2,100	1,200	860	5,000	23,000	--	26.27	0.00	257.19
	12/20/90	760	410	260	1,100	8,200	--	22.59	0.00	260.87
	03/27/91	--	--	--	--	--	--	19.08	0.00	264.38
	06/18/91	--	--	--	--	--	--	27.11	0.00	256.35
	09/12/91	--	--	--	--	--	--	28.22	0.00	255.24
	01/23/92	--	--	--	--	--	--	26.65	0.00	256.81
	04/13/92	3,100	1,300	850	3,100	38,000	--	22.16	0.00	261.30
	08/03/92	1,300	470	550	1,600	13,000	ND	26.15	0.00	257.31
	10/22/92	3,500	1,400	1,500	4,300	24,000	--	26.79	0.00	256.67
01/18/93	6,900	8,900	3,100	23,000	370,000	--	18.60	0.00	264.86	
04/19/93	8,000	7,000	1,400	10,000	51,000	--	21.12	0.00	262.34	
07/21,22/93	3,400	1,000	990	3,100	22,000	--	23.28	0.00	260.18	
C-2 284.37	03/26/85	--	--	--	--	--	--	--	--	--
	07/03/86	--	--	--	--	--	--	19.69	0.00	264.68
	03/26/87	--	--	--	--	--	--	15.45	0.00	268.92
	03/28/88	--	--	--	--	--	--	20.92	0.00	263.45
	03/10/89	--	--	--	--	--	--	12.80	0.00	271.57
	04/03/89	--	--	--	--	--	--	14.26	0.00	270.11
	05/08/89	--	--	--	--	--	--	18.42	0.00	265.95
	06/05/89	--	--	--	--	--	--	20.09	0.00	264.28
	07/12/90	--	--	--	--	--	--	20.79	0.00	263.58
	08/10/90	--	--	--	--	--	--	21.40	0.00	262.97
	09/13/89	62	4	10	14	320	--	21.86	0.00	262.51
	10/04/89	--	--	--	--	--	--	19.89	0.00	264.48
	11/03/89	--	--	--	--	--	--	20.76	0.00	263.61
	12/04/89	240	37	66	130	1,000	--	20.82	0.00	263.55
	03/07/90	--	--	--	--	--	--	17.83	0.00	266.54
	03/09/90	280	35	27	50	390	--	17.83	0.00	266.54
	06/12/90	260	34	28	55	700	--	19.89	0.00	264.48
	09/20/90	--	--	--	--	--	--	21.97	0.00	262.40
	12/20/90	--	--	--	--	--	--	17.73	0.00	266.64
	03/27/91	--	--	--	--	--	--	15.10	0.00	269.27
	06/18/91	--	--	--	--	--	--	22.68	0.00	261.69
	09/12/91	--	--	--	--	--	--	23.92	0.00	260.45
	01/23/92	--	--	--	--	--	--	21.24	0.00	263.13
	04/13/92	120	76	17	72	1,100	--	17.54	0.00	266.83
	08/03/92	--	--	--	--	--	--	22.05	0.00	262.32
	10/22/92	--	--	--	--	--	--	23.03	0.00	261.34
01/18/93	6.4	ND	ND	ND	70	--	14.86	0.00	269.51	
04/19/93	--	--	--	--	--	--	16.80	0.00	267.57	
07/21,22/93	--	--	--	--	--	--	19.25	0.00	265.12	

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-3 285.98	03/26/85	---	---	---	---	---	---	---	---	---
	07/03/86	---	---	---	---	---	---	26.04	0.00	259.94
	03/26/87	---	---	---	---	---	---	25.64	0.00	260.34
	03/28/88	---	---	---	---	---	---	28.82	0.00	257.16
	03/10/89	---	---	---	---	---	---	22.78	0.00	263.20
	04/03/89	---	---	---	---	---	---	22.71	0.00	263.27
	05/06/89	---	---	---	---	---	---	25.95	0.00	260.03
	06/05/89	---	---	---	---	---	---	27.62	0.00	258.36
	07/12/90	---	---	---	---	---	---	28.29	0.00	257.69
	08/10/90	---	---	---	---	---	---	28.46	0.00	257.52
	09/13/89	1,400	6,800	2,300	10,000	60,000	---	29.33	0.00	256.65
	10/04/89	---	---	---	---	---	---	28.97	0.00	257.01
	11/03/89	---	---	---	---	---	---	28.72	0.00	257.26
	12/04/89	1,300	3,300	1,400	2,700	56,000	---	29.01	0.00	256.97
	03/07/90	---	---	---	---	---	---	27.69	0.00	258.29
	03/09/90	1,100	5,700	1,600	7,900	42,000	---	27.89	0.00	258.29
	06/12/90	1,400	7,100	3,400	16,000	160,000	---	28.09	0.00	257.89
	09/24/90	850	7,700	2,000	10,000	53,000	---	29.18	0.00	256.80
	12/20/90	1,200	5,400	5,400	33,000	520	---	28.27	0.00	257.71
	03/27/91	1,300	3,100	1,200	11,000	92,000	---	24.80	0.00	261.18
	06/18/91	---	---	---	---	---	---	30.84	0.00	255.14
	09/12/91e	---	---	---	---	---	---	31.84	0.03	254.34
	01/23/92	---	---	---	---	---	---	30.52	SHEEN	255.46
	04/13/92e	---	---	---	---	---	---	26.94	0.01	259.04
	08/03/92	1,300	2,800	3,100	17,000	220,000	ND	30.00	0.00	255.98
	10/22/92e	SP	SP	SP	SP	SP	---	30.62	0.03	255.38
01/18/93	2,400	5,300	10,000	61,000	1,000,000	---	23.91	0.00	262.07	
04/19/93	33,000	22,000	1,600	9,200	94,000	---	25.00	0.00	260.98	
07/21,22/93	2,600	5,500	1,300	6,900	44,000	---	26.55	0.00	259.43	
C-4 273.01	03/26/85	---	---	---	---	---	---	15.14	0.00	257.87
	07/03/86	---	---	---	---	---	---	15.37	0.00	257.64
	03/26/87	---	---	---	---	---	---	---	---	---
	03/28/88	---	---	---	---	---	---	18.04	0.00	254.97
	03/10/89	---	---	---	---	---	---	---	---	---
	04/03/89	---	---	---	---	---	---	13.34	0.00	259.67
	05/08/89	---	---	---	---	---	---	15.60	0.00	257.41
	06/05/89	---	---	---	---	---	---	16.51	0.00	256.50
	07/12/90	---	---	---	---	---	---	16.99	0.00	256.02
	08/10/90	---	---	---	---	---	---	17.27	0.00	255.74
	09/13/89	21,000	3,100	3,200	11,000	57,000	---	18.16	0.00	254.85
	10/04/89	---	---	---	---	---	---	18.24	0.00	254.77
	11/03/89	---	---	---	---	---	---	18.17	0.00	254.84
	12/04/89	17,000	2,200	2,800	9,800	48,000	---	18.45	0.00	254.56
	03/07/90	---	---	---	---	---	---	17.20	0.00	255.81
	03/09/90	20,000	2,300	2,800	11,000	43,000	---	17.20	0.00	255.81
	06/12/90	21,000	2,400	4,000	16,000	82,000	---	16.66	0.00	256.35
	09/24/90	---	---	---	---	---	---	18.11	0.00	254.90
12/20/90b	---	---	---	---	---	---	---	---	---	

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-5 287.95	03/26/85	---	---	---	---	---	---	25.33	0.00	262.62
	07/03/86	---	---	---	---	---	---	26.41	0.00	261.54
	03/26/87	---	---	---	---	---	---	24.96	0.00	262.99
	03/28/88	---	---	---	---	---	---	29.80	0.00	258.15
	03/10/89	---	---	---	---	---	---	25.89	0.00	262.06
	04/03/89	---	---	---	---	---	---	24.38	0.00	263.57
	05/08/89	---	---	---	---	---	---	27.80	0.00	260.15
	06/05/89	---	---	---	---	---	---	29.42	0.00	258.53
	07/12/90	---	---	---	---	---	---	29.86	0.00	258.09
	08/10/90	---	---	---	---	---	---	29.77	0.00	258.18
	09/13/89	ND	ND	ND	ND	310	---	30.95	0.00	257.00
	10/04/89	---	---	---	---	---	---	31.48	0.00	256.47
	11/03/89	---	---	---	---	---	---	31.32	0.00	256.63
	12/04/89	ND	ND	ND	ND	ND	---	31.70	0.00	256.25
	03/07/90	---	---	---	---	---	---	30.28	0.00	257.67
	03/09/90	ND	ND	ND	ND	ND	---	30.28	0.00	257.67
	06/12/90	ND	ND	ND	ND	90	---	30.48	0.00	257.47
	09/24/90	ND	ND	ND	ND	ND	---	31.78	0.00	256.17
	12/20/90	ND	ND	1.0	0.7	170	---	33.29	0.00	254.66
	03/27/91	---	---	---	---	---	---	27.98	0.00	259.97
	06/18/91	---	---	---	---	---	---	32.52	0.00	255.43
	09/12/91	---	---	---	---	---	---	33.37	0.00	254.58
	01/23/92	---	---	---	---	---	---	32.67	0.00	255.28
04/13/92	ND	ND	0.7	ND	140	---	28.48	0.00	259.47	
08/03/92	ND	ND	ND	ND	ND	ND	32.50	0.00	255.45	
10/22/92	---	---	---	---	---	---	33.98	0.00	253.97	
01/18/93	6.6	2.2	3.4	2.2	230	---	27.02	0.00	260.93	
04/19/93	---	---	---	---	---	---	24.81	0.00	263.14	
07/21,22/93	ND	0.6	ND	ND	130	---	29.06	0.00	258.89	
C-6 275.28	03/26/85	---	---	---	---	---	---	16.74	---	---
	07/03/86	---	---	---	---	---	---	17.46	0.00	257.82
	03/26/87	---	---	---	---	---	---	18.37	0.00	256.91
	03/28/88	---	---	---	---	---	---	29.84	0.00	245.44
	03/10/89	---	---	---	---	---	---	14.44	0.00	280.84
	04/03/89	---	---	---	---	---	---	14.44	0.00	280.84
	05/08/89	---	---	---	---	---	---	17.16	0.00	258.12
	06/05/89	---	---	---	---	---	---	18.51	0.00	256.77
	07/12/90	---	---	---	---	---	---	18.71	0.00	256.57
	08/10/90	---	---	---	---	---	---	19.32	0.00	255.96
	09/13/89	5,600	3,000	2,400	10,000	47	---	19.95	0.00	255.33
	10/04/89	---	---	---	---	---	---	19.87	0.00	255.41
	11/03/89	---	---	---	---	---	---	19.35	0.00	255.93
	12/04/89	8,100	1,800	1,700	7,500	40,000	---	19.59	0.00	255.69
	03/07/90	---	---	---	---	---	---	18.39	0.00	256.89
	03/09/90	23,000	5,900	3,400	17,000	73,000	---	18.39	0.00	256.89
	06/12/90	19,000	6,500	3,400	16,000	85,000	---	18.87	0.00	256.41
	09/24/90	15,000	3,200	2,600	11,000	72,000	---	19.99	0.00	255.29
	12/20/90	11,000	4,200	3,400	16,000	100,000	---	21.57	0.00	253.71
	03/27/91	11,000	4,400	2,300	11,000	100,000	---	16.32	0.00	258.96
	06/18/91	---	---	---	---	---	---	23.33	0.00	251.95
	09/12/91	---	---	---	---	---	---	23.96	0.00	251.32
	01/23/92	---	---	---	---	---	---	12.08	0.00	263.20
04/13/92	---	---	---	---	---	---	19.85	SHEEN	255.43	
08/03/92	16,000	1,100	2,300	15,000	120,000	ND	14.72	0.00	260.56	
10/22/92	7,400	920	1,800	14,000	63,000	---	14.91	0.00	280.37	
01/18/93	13,000	1,600	2,700	12,000	77,000	---	15.44	0.00	259.84	
04/19/93	14,000	1,100	2,400	9,100	56,000	---	9.25	0.00	266.03	
07/21,22/93	6,600	610	1,500	5,800	38,000	---	17.35	0.00	257.93	

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-7  270.70	03/26/85	---	---	---	---	---	---	9.61	---	---
	07/03/86	---	---	---	---	---	---	10.74	0.00	259.96
	03/26/87	---	---	---	---	---	---	10.08	0.00	260.62
	03/28/88	---	---	---	---	---	---	13.79	0.00	256.91
	03/10/89	---	---	---	---	---	---	10.42	0.00	260.28
	04/03/89	---	---	---	---	---	---	9.14	0.00	261.56
	05/08/89	---	---	---	---	---	---	11.91	0.00	258.79
	06/05/89	---	---	---	---	---	---	11.54	0.00	259.16
	07/12/90	---	---	---	---	---	---	13.45	0.00	257.25
	08/10/90	---	---	---	---	---	---	13.37	0.00	257.33
	09/13/89	1.3	ND	10	ND	410	---	14.60	0.00	256.10
	10/04/89	---	---	---	---	---	---	15.17	0.00	255.53
	11/03/89	---	---	---	---	---	---	15.28	0.00	255.42
	12/04/89	1	ND	5	ND	1,000	---	15.70	0.00	255.00
	03/07/90	---	---	---	---	---	---	14.22	0.00	256.48
	03/09/90	2.8	2.4	3.5	2	590	---	14.22	0.00	256.48
	06/12/90	ND	5	8.2	3.2	1,200	---	14.18	0.00	256.52
	09/24/90	1.4	1.9	1.4	2.2	400	---	15.44	SHEEN	255.26
	09/24/90D	ND	2.4	1.4	1.5	580	---	15.44	SHEEN	255.26
	12/20/90	ND	6.5	4.7	9.3	2,300	---	17.08	0.00	253.62
	03/27/91	ND	2.4	9.1	3	980	---	12.65	0.00	258.05
	06/18/91	---	---	---	---	---	---	16.44	0.00	254.26
	09/12/91	ND	3.1	6.5	2.7	1,200c	---	17.05	0.00	253.65
01/23/92	---	---	---	---	---	---	16.92	0.00	253.78	
04/13/92	ND	1	7.8	1.2	830	---	13.00	0.00	257.70	
08/03/92	---	---	---	---	---	---	---	---	---	
10/22/92b	---	---	---	---	---	---	---	---	---	
01/18/93b	---	---	---	---	---	---	---	---	---	
04/19/93b	---	---	---	---	---	---	---	---	---	
07/21,22/93	0.9	3	4	4	890	---	12.94	0.00	257.76	
C-8  288.40	03/26/85	---	---	---	---	---	---	8.68	---	---
	07/03/86	---	---	---	---	---	---	13.89	0.00	274.51
	03/26/87	---	---	---	---	---	---	6.01	0.00	282.39
	03/28/88	---	---	---	---	---	---	10.66	0.00	277.74
	03/10/89	---	---	---	---	---	---	6.61	0.00	281.79
	04/03/89	---	---	---	---	---	---	6.46	0.00	281.94
	05/08/89	---	---	---	---	---	---	8.97	0.00	279.43
	06/05/89	---	---	---	---	---	---	10.88	0.00	277.52
	07/12/90	---	---	---	---	---	---	12.15	0.00	276.25
	08/10/90	---	---	---	---	---	---	12.46	0.00	275.94
	09/13/89	ND	ND	ND	ND	ND	---	12.78	0.00	275.62
	10/04/89	---	---	---	---	---	---	12.51	0.00	275.89
	11/03/89	---	---	---	---	---	---	14.63	0.00	273.77
	12/04/89	0.6	0.6	ND	1	64	---	9.59	0.00	278.81
	03/07/90	---	---	---	---	---	---	8.80	0.00	279.60
	03/09/90	ND	ND	ND	ND	ND	---	8.80	0.00	279.60
	06/12/90	2.5	1.2	1	1.4	120	---	8.94	0.00	279.46
	09/24/90	---	---	---	---	---	---	13.54	0.00	274.86
	12/20/90	---	---	---	---	---	---	9.33	0.00	279.07
	03/27/91	0.7	ND	0.7	1.9	54	---	6.10	0.00	282.30
	06/18/91	---	---	---	---	---	---	11.96	0.00	276.44
	09/12/91	ND	ND	ND	ND	ND	---	13.60	0.00	274.80
	09/12/91D	ND	ND	ND	ND	ND	---	13.60	0.00	274.80
01/23/92	---	---	---	---	---	---	24.20	0.00	264.20	
04/13/92	ND	ND	ND	ND	ND	---	8.35	0.00	280.05	
08/03/92	ND	ND	ND	ND	ND	---	12.58	0.00	275.82	
10/22/92	ND	ND	ND	ND	ND	---	13.10	0.00	275.30	
01/18/93	ND	ND	ND	ND	ND	---	6.12	0.00	282.28	
04/19/93	ND	ND	ND	ND	ND	---	7.05	0.00	281.35	
07/21,22/93	ND	ND	ND	ND	ND	---	11.35	0.00	277.05	



**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-9 268.46	07/03/86	--	--	--	--	--	--	13.89	0.00	254.57
	03/26/87	--	--	--	--	--	--	13.74	0.00	254.72
	03/28/88	--	--	--	--	--	--	14.99	0.00	253.47
	03/10/89	--	--	--	--	--	--	13.39	0.00	255.07
	04/03/89	--	--	--	--	--	--	12.84	0.00	255.62
	05/08/89	--	--	--	--	--	--	14.38	0.00	254.08
	06/05/89	--	--	--	--	--	--	15.36	0.00	253.10
	07/12/90	--	--	--	--	--	--	15.65	0.00	252.81
	08/10/90	--	--	--	--	--	--	15.80	0.00	252.66
	09/13/89	14,000	1,100	2,800	4,200	42,000	--	16.53	0.00	251.99
	10/04/89	--	--	--	--	--	--	16.52	0.00	251.94
	11/03/89	--	--	--	--	--	--	16.51	0.00	251.95
	12/04/89	11,000	670	2,500	3,800	36,000	--	16.79	0.00	251.67
	03/07/90	--	--	--	--	--	--	16.22	0.00	252.24
	03/09/90	12,000	940	3,000	4,700	28,000	--	16.22	0.00	252.24
	06/12/90	11,000	1,600	2,300	4,800	39,000	--	14.88	0.00	253.58
	09/24/90	13,000	1,600	3,700	6,800	120,000	--	16.30	0.00	252.16
	12/20/90	9,300	560	2,600	3,300	51,000	--	17.23	0.00	251.23
	12/20/90D	12,000	580	2,800	3,500	44,000	--	17.23	0.00	251.23
	03/27/91	3,400	5,000	1,600	5,600	56,000	--	13.78	0.00	254.88
	06/18/91	--	--	--	--	--	--	18.64	0.00	249.82
	09/12/91d	--	--	--	--	--	--	--	--	--
	01/23/92d	--	--	--	--	--	--	--	--	--
	04/13/92d	--	--	--	--	--	--	--	--	--
	08/03/92d	--	--	--	--	--	--	--	--	--
10/22/92d	--	--	--	--	--	--	--	--	--	
01/18/93d	--	--	--	--	--	--	--	--	--	
04/19/93d	--	--	--	--	--	--	--	--	--	
07/21,22/93d	--	--	--	--	--	--	--	--	--	
C-10A 264.84	03/07/90	--	--	--	--	--	--	20.21	0.00	244.63
	03/09/90	1.6	0.7	0.8	3.5	ND	--	19.70	0.00	245.14
	06/12/90	ND	ND	ND	ND	ND	--	19.54	0.00	245.30
	09/24/90	ND	ND	ND	ND	ND	--	19.84	0.00	245.00
	12/20/90	ND	ND	ND	ND	ND	--	18.01	0.00	246.83
	03/27/91	ND	ND	ND	ND	ND	--	20.16	0.00	244.68
	06/18/91	ND	ND	ND	ND	ND	--	20.57	0.00	244.27
	09/12/91	ND	ND	ND	ND	ND	--	20.67	0.00	244.17
	01/23/92	ND	ND	ND	ND	ND	--	19.40	0.00	245.44
	04/13/92	0.9	1.3	ND	1	53	ND	19.81	0.00	245.03
	08/03/92	ND	ND	ND	ND	ND	ND	19.83	0.00	245.01
	10/22/92	ND	ND	ND	0.5	ND	--	17.04	0.00	247.80
	01/18/93	ND	ND	ND	ND	ND	--	17.77	0.00	247.07
	04/19/93	ND	ND	ND	ND	ND	--	17.56	0.00	247.28
C-10B 264.85	03/07/90	--	--	--	--	--	--	21.44	0.00	243.41
	06/12/90	ND	ND	ND	ND	ND	--	19.94	0.00	244.91
	09/24/90	ND	ND	ND	ND	ND	--	19.77	0.00	245.08
	12/20/90	ND	ND	ND	ND	ND	--	20.00	0.00	244.85
	03/27/91	--	--	--	--	--	--	18.23	0.00	246.62
	06/18/91	--	--	--	--	--	--	20.44	0.00	244.41
	09/12/91	ND	ND	ND	ND	ND	--	20.82	0.00	244.03
	01/23/92	ND	ND	ND	ND	ND	--	20.92	0.00	243.93
	04/13/92	ND	ND	ND	ND	ND	--	19.68	0.00	245.17
	08/03/92	ND	ND	ND	ND	ND	ND	20.07	0.00	244.78
	10/22/92	ND	ND	ND	ND	ND	--	20.12	0.00	244.73
	01/18/93	3.3	11	2.1	8.9	60	--	17.36	0.00	247.49
	04/19/93	ND	ND	ND	ND	ND	--	17.90	0.00	246.95
	07/21,22/93	ND	ND	ND	ND	ND	--	17.86	0.00	246.99

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FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-11 265.30	03/07/90	--	--	--	--	--	--	22.74	0.00	242.56
	03/09/90	1.2	0.7	ND	1.4	ND	--	--	--	--
	06/12/90	ND	ND	ND	ND	ND	--	21.98	0.00	243.32
	09/24/90	ND	ND	ND	ND	ND	--	21.88	0.00	243.42
	12/20/90	ND	ND	ND	ND	ND	--	23.18	0.00	242.12
	03/27/91	ND	ND	ND	1.5	ND	--	21.52	0.00	243.78
	06/18/91	--	--	--	--	--	--	21.90	0.00	243.40
	09/12/91	ND	ND	ND	ND	ND	--	22.70	0.00	242.60
	01/23/92	ND	ND	ND	ND	ND	--	23.46	0.00	241.84
	04/13/92	ND	ND	ND	ND	ND	--	21.57	0.00	243.73
	08/03/92	ND	ND	ND	ND	ND	ND	22.67	0.00	242.63
	10/22/92	ND	ND	ND	ND	ND	--	23.29	0.00	242.01
	01/18/93	ND	1.2	ND	2.2	ND	--	21.36	0.00	243.94
	04/19/93	ND	ND	ND	ND	ND	--	19.97	0.00	245.33
07/21,22/93	ND	ND	ND	ND	ND	--	20.65	0.00	244.65	
C-12 269.66	03/07/90	--	--	--	--	--	--	14.92	0.00	254.74
	03/09/90	230	140	33	180	1,400	--	--	--	--
	06/12/90	190	71	18	73	720	--	14.79	0.00	254.87
	09/24/90	1.1	ND	ND	0.6	ND	--	15.72	0.00	253.94
	12/20/90	210	26	8.2	23	810	--	15.26	0.00	254.40
	03/27/91	350	220	52	210	2,900	--	12.11	0.00	257.55
	06/18/91	--	--	--	--	--	--	16.38	0.00	253.28
	09/12/91	59	12	4.5	8.5	350	--	17.55	0.00	252.11
	01/23/92	110	31	7.9	22	450	--	17.11	0.00	252.55
	04/13/92	1,100	76	100	200	5,000	--	14.40	0.00	255.26
	08/03/92	200	21	13	25	520	ND	15.83	0.00	253.83
	10/22/92	310	86	35	56	1,300	--	16.14	0.00	253.52
	01/18/93	1,200	430	220	610	5,600	--	11.70	0.00	257.96
	04/19/93	600	99	96	170	2,000	--	13.05	0.00	256.61
07/21,22/93	95	36	18	56	540	--	12.84	0.00	256.82	
C-13 284.32	03/07/90	--	--	--	--	--	--	11.18	0.00	273.14
	03/09/90	15	3.7	1	6.2	ND	--	--	--	--
	06/12/90	2.6	ND	ND	ND	ND	--	10.70	0.00	273.62
	09/24/90	2.4	ND	ND	ND	ND	--	11.60	0.00	272.72
	12/20/90	1.6	ND	ND	ND	ND	--	10.16	0.00	274.16
	03/27/91	--	--	--	--	--	--	7.64	0.00	276.68
	06/18/91	--	--	--	--	--	--	11.32	0.00	273.00
	09/12/91	ND	ND	ND	ND	ND	--	11.84	0.00	272.48
	01/23/92	--	--	--	--	--	--	10.55	0.00	273.77
	04/13/92	1	ND	ND	ND	ND	--	10.96	0.00	273.36
	08/03/92	ND	ND	ND	ND	ND	ND	10.90	0.00	273.42
	10/22/92	--	--	--	--	--	--	11.18	0.00	273.14
	01/18/93	54	10	5.4	12	290	--	7.40	0.00	276.92
	04/19/93	--	--	--	--	--	--	8.93	0.00	275.39
07/21,22/93	ND	ND	ND	ND	ND	--	10.75	0.00	273.57	

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FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-14 270.74	03/07/90	--	--	--	--	--	--	15.18	0.00	255.56
	03/09/90	ND	ND	ND	ND	ND	ND	--	--	--
	06/12/90	ND	ND	ND	ND	ND	ND	13.42	0.00	257.32
	09/24/90	ND	ND	ND	ND	ND	ND	12.84	0.00	257.90
	12/20/90	1.7	0.7	ND	0.7	ND	ND	16.72	0.00	254.02
	03/27/91	ND	ND	ND	1.3	ND	ND	8.00	0.00	262.74
	06/18/91	--	--	--	--	--	--	15.21	0.00	255.53
	09/12/91	ND	ND	ND	ND	ND	ND	15.61	0.00	255.13
	01/23/92	--	--	--	--	--	--	24.64	0.00	246.10
	04/13/92	ND	ND	ND	ND	ND	ND	12.21	0.00	258.53
	08/03/92	ND	ND	ND	ND	ND	ND	14.64	0.00	256.10
	10/22/92	--	--	--	--	--	--	16.94	0.00	253.80
	01/18/93	ND	ND	ND	ND	ND	ND	5.10	0.00	265.64
	04/19/93	--	--	--	--	--	--	6.88	0.00	263.86
07/21,22/93	ND	ND	ND	ND	ND	ND	11.16	0.00	259.58	
C-15 246.15	03/07/90	--	--	--	--	--	--	11.10	0.00	235.05
	03/09/90	ND	1.4	0.5	0.6	410	--	--	--	--
	06/12/90	11	ND	ND	ND	420	--	10.78	0.00	235.37
	09/24/90	ND	1.5	ND	ND	430	--	10.93	0.00	235.22
	12/20/90	1.3	1.1	0.6	1.5	300	--	11.08	0.00	235.07
	03/27/91	4.6	1.1	ND	1	520c	--	8.50	0.00	237.65
	06/18/91	ND	1.1	ND	ND	290	--	10.83	0.00	235.32
	06/18/91D	ND	1.3	ND	ND	320	--	10.83	0.00	235.32
	09/12/91	ND	0.9	ND	ND	330c	--	11.05	0.00	235.10
	01/23/92	ND	0.6	ND	ND	210	--	10.80	0.00	235.35
	01/23/92D	1.2	0.8	ND	ND	190	--	10.80	0.00	235.35
	04/13/92	1.8	ND	ND	ND	430	--	9.58	0.00	236.57
	08/03/92	ND	2.1	0.7	1.3	640	ND	11.21	0.00	234.94
	10/22/92	ND	ND	ND	0.8	420	--	11.65	0.00	234.50
01/18/93	7.0	3.0	2.9	6.7	640	--	7.12	0.00	239.03	
04/19/93	6.0	2.0	0.7	ND	260c	--	8.93	0.00	237.22	
07/21,22/93	ND	8	ND	0.6	580f	--	9.78	0.00	236.37	
C-16 246.69	03/07/90	--	--	--	--	--	--	18.50	0.00	228.19
	03/09/90	ND	ND	ND	ND	ND	ND	--	--	--
	06/12/90	ND	ND	ND	ND	ND	ND	11.42	0.00	235.27
	09/24/90	ND	ND	ND	ND	ND	ND	11.39	0.00	235.30
	12/20/90	ND	ND	ND	0.7	ND	ND	11.57	0.00	235.12
	03/27/91	ND	ND	ND	1.3	ND	ND	8.76	0.00	237.93
	03/27/91D	ND	ND	ND	1.2	ND	ND	8.76	0.00	237.93
	06/18/91	ND	ND	ND	ND	ND	ND	11.18	0.00	235.51
	09/12/91	ND	ND	ND	ND	ND	ND	11.95	0.00	234.74
	01/23/92	ND	ND	ND	ND	ND	ND	12.41	0.00	234.28
	04/13/92	ND	ND	ND	ND	ND	ND	10.69	0.00	236.00
	08/03/92	ND	ND	ND	ND	ND	ND	12.20	0.00	234.49
	10/22/92	ND	ND	ND	ND	ND	ND	12.60	0.00	234.09
	01/18/93	ND	ND	ND	ND	ND	ND	9.00	0.00	237.69
04/19/93	ND	ND	ND	ND	ND	ND	9.89	0.00	236.80	
07/21,22/93	ND	ND	ND	ND	ND	ND	10.25	0.00	236.44	

**Table 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

FORMER CHEVRON SERVICE STATION NO. 9-5607  
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
RW 274.52	12/04/89	29,000	1,700	1,800	8,800	62,000	--	--	--	--
	03/07/90	--	--	--	--	--	--	18.50	0.00	256.02
	06/12/90	15,000	2,000	560	3,100	31,000	--	18.49	0.00	256.03
	09/24/90	--	--	--	--	--	--	--	--	--
	12/20/90	0.5	ND	ND	1.2	ND	--	--	--	--
	03/27/91	--	--	--	--	--	--	--	--	--
	06/18/91	--	--	--	--	--	--	--	--	--
	09/12/91a	--	--	--	--	--	--	--	--	--
	01/23/92a	--	--	--	--	--	--	--	--	--
	04/13/92a	--	--	--	--	--	--	--	--	--
	08/03/92a	--	--	--	--	--	--	--	--	--
	10/22/92a	--	--	--	--	--	--	--	--	--
	01/18/93a	--	--	--	--	--	--	--	--	--
	04/19/93a	--	--	--	--	--	--	--	--	--
	07/21,22/93a	--	--	--	--	--	--	--	--	--

**Explanation**

Top of casing and groundwater elevations are expressed as feet above mean sea level.

TPH-G = Total petroleum hydrocarbons as gasoline

SP = Separate-phase petroleum hydrocarbons

DTW = Depth to water

SPT = Separate-phase hydrocarbon thickness

WTE = Water table elevation

(adjusted WTE = well elevation - (DTW - (SPT X 0.8))

TOC = Top of casing

ppb = parts per billion

ND = Not detected at or above the minimum quantitation limit

-- = Not analyzed

NOTE: See laboratory reports for minimum quantitation limits.

D = Duplicate

a = Not sampled due to insufficient water in well

b = C-4: Well destroyed, C-7: Well could not be located

c = Typical gasoline chromatographic pattern not present

d = Not sampled: Well adapted for on-site remediation system

e = Groundwater elevation corrected assuming 0.8 specific gravity for gasoline

f = Uncategorized compound is not included in gasoline hydrocarbon total

Sampling frequency:

Quarterly: C-1, C-3, C-4, C-6, C-8, C-10A, C-10B,

C-11, C-12, C-15, and C-16.

Semi-annually (1st & 3rd quarters): C-5, C-7, C-13, and C-14.

Annually (1st quarter): C-2.

**ATTACHMENT I**

**LABORATORY REPORTS  
AND  
CHAIN-OF-CUSTODY MANIFESTS**



**GROUNDWATER  
TECHNOLOGY**



# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

4080 Pike Lane  
Concord, CA 94520  
(510) 685-7852  
(800) 544-3422 Inside CA  
(800) 423-7143 Outside CA  
(510) 825-0720 FAX

Client Number: 020704228  
Consultant Project Number: 020704228  
Facility Number: 9-5607  
Project ID: 5269 Crow Canyon Rd.  
Work Order Number: C3-07-0355

August 5, 1993

Bruce Eppler  
Groundwater Technology, Inc.  
1401 Halyard Drive, Suite 140  
West Sacramento, CA 95691

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 07/23/93.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

Eileen F. Bullen  
Laboratory Director

Client Number: 020704228  
 Consultant Project Number: 020704228  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Work Order Number: C3-07-0355

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>

GTEL Sample Number		01	02	03	05
Client Identification		TB-LB	RBC14	C14	C13
Date Sampled		07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93
Date Analyzed		07/31/93	07/31/93	08/01/93	08/01/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
BTEX, total	--	--	--	--	--
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		96.6	97.6	95.7	94.5

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.

Client Number: 020704228  
 Consultant Project Number: 020704228  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Work Order Number: C3-07-0355

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>

GTEL Sample Number		07	09	11	13
Client Identification		C11	C10B	C8	C10A
Date Sampled		07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93
Date Analyzed		07/31/93	07/31/93	07/31/93	07/31/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
BTEX, total	-	-	-	-	-
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		96.8	95.7	93.5	95.5

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.



Client Number: 020704228  
 Consultant Project Number: 020704228  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Work Order Number: C3-07-0355

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>

GTEL Sample Number		15	17	19	21
Client Identification		C16	C5	C7	C15
Date Sampled		07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93
Date Analyzed		07/31/93	08/01/93	08/01/93	08/01/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	0.9	<0.5
Toluene	0.5	<0.5	0.6	3	8
Ethylbenzene	0.5	<0.5	<0.5	4	<0.5
Xylene, total	0.5	<0.5	<0.5	4	0.6
BTEX, total	--	--	1	12	9
TPH as Gasoline	50	<50	130	890	580*
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		94.3	96.5	96.0	100

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.

\* Uncategorized compound is not included in gasoline hydrocarbon total.

Client Number: 020704228  
 Consultant Project Number: 020704228  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Work Order Number: C3-07-0355

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>

GTEL Sample Number		23	25	27	29
Client Identification		C12	C1	C3	C6
Date Sampled		07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93	07/21/93 07/22/93
Date Analyzed		08/01/93	08/01/93	08/01/93	08/01/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	95	3400	2600	6600
Toluene	0.5	36	1000	5500	610
Ethylbenzene	0.5	18	990	1300	1500
Xylene, total	0.5	56	3100	6900	5800
BTEX, total	--	210	8500	16000	15000
TPH as Gasoline	50	540	22000	44000	38000
Detection Limit Multiplier		5	50	200	50
BFB surrogate, % recovery		95.3	96.4	94.3	96.4

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.

Client Number: 020704228  
 Consultant Project Number: 020704228  
 Facility Number: 9-5607  
 Project ID: 5269 Crow Canyon Rd.  
 Work Order Number: C3-07-0355

**Table 1 (Continued)**

**ANALYTICAL RESULTS**

**Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water**

**EPA Methods 5030, 8020, and Modified 8015<sup>a</sup>**

GTEL Sample Number		Q073193			
Client Identification		METHOD BLANK			
Date Sampled		--			
Date Analyzed		07/31/93			
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5			
Toluene	0.5	<0.5			
Ethylbenzene	0.5	<0.5			
Xylene, total	0.5	<0.5			
BTEX, total	--	--			
TPH as Gasoline	50	<50			
Detection Limit Multiplier		1			
BFB surrogate, % recovery		95.8			

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.

Client Number: 020704228  
Consultant Project Number: 020704228  
Facility Number: 9-5607  
Project ID: 5269 Crow Canyon Rd.  
Work Order Number: C3-07-0355

### QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
<b>Modified EPA 8020:</b>							
Benzene	C3070317-03	20.0	ug/L	96.0	92.0	4.3	55 - 129
Toluene	C3070317-03	20.0	ug/L	101	97.5	3.5	72 - 149
Ethylbenzene	C3070317-03	20.0	ug/L	92.0	88.5	3.9	75 - 138
Xylene, total	C3070317-03	60.0	ug/L	94.5	90.5	4.3	74 - 147

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

Chevron Facility Number: CHUKASTRO VALLEY 9-5607  
 Facility Address: 5269 CROW CANYON RD,  
 Consultant Project Number: 020704228-0610  
 Consultant Name: GROUNDWATER TECHNOLOGY  
 Address: 1401 HALYARD DRIVE SUITE 140 WETSAC 95091  
 Project Contact (Name): BRUCE EPPLER  
 (Phone): (916) 372-4700 (Fax Number)

Chevron Contact (Name): Brett Hunter  
 (Phone): (510) 842-9695  
 Laboratory Name: GTI  
 Laboratory Release Number: 6683910  
 Samples Collected by (Name): HECTOR MORALES  
 Collection Date: 7/21-7-22  
 Signature: [Signature]

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	Isot (Yes or No)	Analytes To Be Performed										Remarks
								BTEX + TPH GAS (8220 + 8015)	TPH Classed (8015)	Oil and Grease (8220)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8220)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (8240 or AA)			
TB-LB RBC14 C14	001 002 003	1 1 3	W	G		HCL	X	X										NOTE: Do NOT BILL TB-LB SAMPLES UNLESS INTACT; ON ICR AS 1/3/13 (1/3/13)
RBC13 C13	004 005	1 3					X											
RBC11 C11	006 007	1 3					X											
RBC10B C10B	008 009	1 3					X											
RBC8 C8	10 11	1 3			1200		X											
RBC10A C10A	12 13	1 3			1200		X											
RBC16 C16	14	1			1200		X											
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTI</u>	Date/Time <u>7/23/93</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>[Signature]</u>	Date/Time <u>7/23/93</u>	Turn Around Time (Circle Choice)												
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization	Date/Time <u>7/23/93</u>	24 hrs. 48 hrs. 5 Days 10 Days <input checked="" type="radio"/> As Controlled												

HLD

DICED  
7/8

C3070355  
1/2

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

Yes  
 No

Chain-of-Custody-Recor

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

Chevron Facility Number CHULCARK VALLEY 9-5607  
 Facility Address 5269 CROW CANYON RD,  
 Consultant Project Number 020704228-060  
 Consultant Name GROUNDWATER TECH  
 Address 140 HAYWARD DRIVE SUITE 140 WEST SAC 95161  
 Project Contact (Name) BRUCE EPPER  
 (Phone) (916) 372-4700 (Fax Number)

Chevron Contact (Name) BRETT HUNTER  
 (Phone) (916) 842-8695  
 Laboratory Name GTEI  
 Laboratory Release Number 81083910  
 Samples Collected by (Name) HECTOR MERRINO  
 Collection Date 7/22/93  
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab G = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analysis To Be Performed											
								BTX + TPH GAS (8020 + 8015)	TPH Distil (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Mercury Cd Cr Pb Zn Ni (8040 or AA)				
PBC5	16	1	W	G	1230	Hel	YES								X				
CS	17	3			1230			X											
PBC7	18	1			1240										X				
C7	19	3			1240			X											
PBC15	20	1			1250			X							X				
C15	21	3			1300			X											
PBC12	22	1			1000			X							X				
C12	23	3			1000			X											
PBC1	24	1			110			X							X				
C1	25	3			110			X											
PBC3	26	1			120			X							X				
C3	27	3			120			X											
PBC6	28	1			130			X							X				
C6	29	3			130			X											

NOTE:  
Do NOT BILL  
TB-LB SAMPLE  
ON ICE AS!  
SEAL IMMEDIATELY  
7/23/93

C3070355  
1/2

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTEI</u>	Date/Time <u>7/23/93</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>GTEI</u>	Date/Time <u>7/23/93</u>	Turn Around Time (Circle Choice) 24 hrs. 48 hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTEI</u>	Date/Time <u>7/23/93</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>GTEI</u>	Date/Time <u>7/23/93</u>	
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTEI</u>	Date/Time <u>7/23/93</u>	Received For Laboratory By (Signature) <u>[Signature]</u>	Organization <u>GTEI</u>	Date/Time <u>7/23/93</u>	