

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** 

Britt L. Muto

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)





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

FAX (916) 372-8781

May 21, 1993

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 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 1. 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

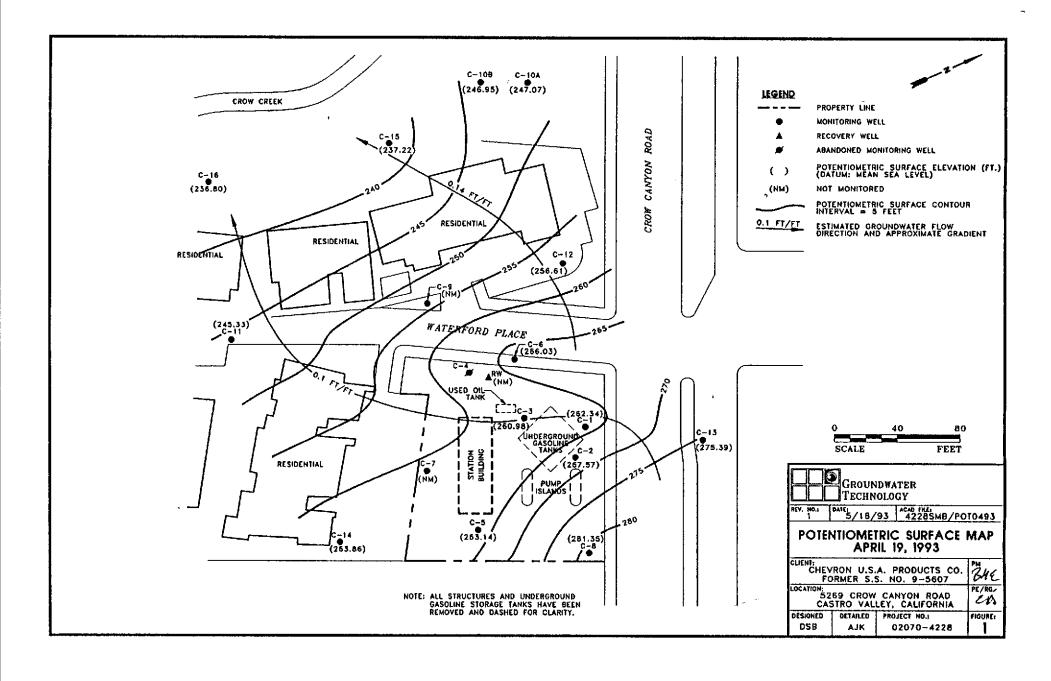
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Attachments 4228QTR2.LTR Groundwater Technology, Inc. Reviewed/Approved by

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

No 4422

Offices throughout the U.S., Canada and Overseas



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

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03/10/98							L				257.46
DAMOS/98	į.								The second contract of	•	267.60
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09/13/89							l	l .			257.57
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11/03/89											258,22
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Display   Disp	ľ		3,500	1.400	840		21,000		24.35	0.0000000000000000000000000000000000000	259.11
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06/18/91			760	410	260	1,100		L			260.87
09/12/91						***					264.38 256.35
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08/03/92			1	i			38,000				261.30
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12/20/90			260	34	28	55	700				264.48
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06/18/91          22.68     0.00     22       09/12/91          23.92     0.00     22       01/23/92           21.24     0.00     22       04/13/92     120     76     17     72     1,100      17.54     0.00     22       08/03/92           22.05     0.00     23       10/22/92           23.03     0.00     24       01/18/93     6.4     ND     ND     ND     70      14.86     0.00     24				 	terresis i i sesticio	1					266.64 269.27
09/12/91         23,92     0.00     20       01/23/92          21,24     0.00     20       04/13/92     120     76     17     72     1,100      17.54     0.00     20       08/03/92           22.05     0.00     20       10/22/92           23.03     0.00     20       01/18/93     6.4     ND     ND     ND     70      14.86     0.00     20	İ						1	- processor construction of the construction o			261.69
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04/19/93 16.80 0.00 2								1	16.80		4

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

WELL ID/				ETHYL-			ORGANIC	100000000000000000000000000000000000000		
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(тос)	DATE	(deq)	(ppb)	(dad)	(dgg)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-3										
285.98	03/26/85							1		
205.90	03/20/63							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		<b></b>	·				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	257.26 256.97
	12/04/89	1,300	3,300	1,400	2,700	56,000		29.01 27.69	0.00	258.29
	03/07/90 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		# <del>*</del>					30.84	0.00	255.14
	09/12/91##							31.64	0.03	254.34
	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 ND	30.00	0.00	255.98
	10/22/92##	SP	SP	SP	SP	1.000.000	· · · · · · · · · · · · · · · · · · ·	30,62		255.38
<b>i</b>	01/18/93	2,400	5,300	10,000	61,000	94,000		23.91 25.00	0.00	262.07 260.98
	04/19/93	33,000	22,000	1,600	9,200	34,000		23.00		200,50 <sub>1</sub>
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									
<b>i</b>	03/28/88	8.888888888 <del>55</del> 5						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					<u> </u>		16.51	0.00	256.50
	07/12/90				rom predesidoseses e e e e e			16.99	0.00	256.02
	08/10/90		******** <b></b>					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		254.56
	03/07/90						[	17.20	0.00	255.81
1	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					(2000) 30 POT		18.11	0.00	254,90
L	12/20/90**	<u></u>					<u> </u>	J		

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

WELL ID/				ANYON ROAD, C			ORGANIC			
ELEVATION	1	BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(тос)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
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C-5 287.95	03/26/85							25.33	0.00	262.62
207.00	07/03/86					<del></del>	<del></del>	26.41	0.00	261.54
	03/26/87			<del></del>				24.96	0.00	262.99
	03/28/88			::::::::::::::::::::::::::::::::::::::				29.80	0.00	258.15
	03/10/89 04/03/89							25.89 24.38	0.00 0.00	262.06 263.57
	05/08/89			<del></del>		<del></del>		27.80	0.00	260.15
	06/05/89			200 0 0 0 <del>0</del>	<del></del>			29,42	0.00	258.5
	07/12/90 08/10/90							29.86 29.77	0.00	258.09 258.14
	09/13/89	ND	ND	ND	ND	310		30.95	0.00	257.00
	10/04/89							31.48	0.00	256,4
	11/03/89   12/04/89	ND	 ND	 ND	 ND	ND		31.32 31.70	0.00	256.63 256.25
	03/07/90							30.28	0.00	257.67
	03/09/90	NO	ND	ND	ND	ND		30.28	0.00	257.6
	06/12/90	ND	ND	ND	ND	90		30.48	0.00	257.47
	09/24/90 12/20/90	ND ND	ND ND	ND	ND 0.7	ND 170		31.78 33.29	0.00	256,17 254.66
	03/27/91	ND	ND 	1.0	U.7			27.98	0.00	259.9
	06/18/91							32.52	0.00	255.43
	09/12/91							33.37	0.00	254.5
	01/23/92	ND	 ND	0.7	ND	140		32.67 28.48	0.00	255.20 259.4
	04/13/92 08/03/92	ND ND	ON ND	ND	ND	ND	ND	32.50	0.00	255.4
	10/22/92	<u>-</u>						33.98	0.00	253.9
	01/18/93	6.6	2.2	3.4	2.2	230		27.02	0.00	260.93
2 2	04/19/93				<del></del>			24.81	0,00	263.14
C-6	03/26/85				:			16.74		
275.28	07/03/86					****	· · · · · · · · · · · · · · · · · · ·	17.46	0.00	257.8
	03/26/87						<b></b>	18.37	0.00	256.9
	03/28/88		0.0000.0000.0000.0000.0000.0000.0000.0000							245,4
						<u></u>	<u> </u>	29.84	0.00	
	03/10/89 04/03/89			 	C 2, 4 50 C 4 C 4 C 4 C 5 C 5 C 5 C 5 C 5 C 5 C 5			14.44	0.00	260.8
	03/10/89 04/03/89 05/08/89	  	 	  	 	<b></b> 	  	acceptance and accept	CONTRACTOR CONTRACTOR	260.8- 260.8-
	04/03/89 05/08/89 06/05/89	  	  	   	C 2, 4 50 C 4 C 4 C 4 C 5 C 5 C 5 C 5 C 5 C 5 C 5	\$60566600000000000000000000000000000000		14.44 14.44 17.16 18.51	0.00 0.00 0.00 0.00	260.8- 260.8- 258.12 256.7
	04/03/89 05/08/89 06/05/89 07/12/90		  	1999 (1997 - 1997 (1997 (1997 <b>- 1</b> 997 (1997 <b>- 1</b> 997 (1997 <b>- 1997 (1997 - 1997 (1</b>	 	<b></b> 	  	14.44 14.44 17.16 18.51 18.71	0.00 0.00 0.00 0.00 0.00	260.8- 260.8- 258.1: 256.7 256.5
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90		  		   	   	   	14.44 14.44 17.16 18.51 18.71 19.32	0.00 0.00 0.00 0.00 0.00 0.00	260.8- 260.8- 258.12 256.77 256.57 255.90
	04/03/89 05/08/89 06/05/89 07/12/90		    3,000	1999 (1997 - 1997 (1997 (1997 <b>- 1</b> 997 (1997 <b>- 1</b> 997 (1997 <b>- 1997 (1997 - 1997 (1</b>	 	<b></b> 	    	14.44 14.44 17.16 18.51 18.71	0.00 0.00 0.00 0.00 0.00	260.8- 260.8- 258.1: 256.7 256.5: 255.90 255.3:
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89	5,600	3,000 	2,400 	10,000	    47	   	14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8- 260.8- 258.12 256.77 256.57 255.94 255.94 255.95
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89		  		   	   	     	14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.35 19.59	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8- 260.8- 258.11 256.7 256.5 255.90 255.3 255.4 255.9 255.6
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89 03/07/90	5,600  8,100	3,000  1,800	2,400  1,700	10,000	47	     	14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.35 19.59 18.39	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8 260.8 258.1 256.7 256.5 255.9 255.3 255.4 255.9 255.6
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89	5,600	3,000 	2,400 	10,000	   47  40,000  73,000 85,000	     	14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.35 19.59	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8 260.8 258.1 256.7 256.5 255.9 255.4 255.9 255.6 256.8
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89 03/07/90 03/09/90 06/12/90 09/24/90	5,600  8,100  23,000 19,000	3,000  1,800 5,900 6,500 3,200	2,400  1,700  3,400 3,400 2,600	7,500 16,000 11,000	40,000 85,000 72,000	        	14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.87 19.59 18.39 18.39 18.87	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8 260.8 258.1 256.7 256.5 255.9 255.4 255.9 255.6 256.8 256.8 256.8
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89 03/07/90 03/09/90 06/12/90 09/24/90 12/20/90	5,600  8,100  23,000 19,000 15,000 11,000	3,000  1,800  5,900 6,500 3,200 4,200	2,400  1,700 3,400 3,400 2,600 3,400	7,500 16,000 16,000 16,000	  47  40,000  73,000 85,000 72,000 100,000	        	14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.59 18.39 18.39 18.87 19.99 21.57	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8 260.8 258.1 256.7 256.5 255.9 255.4 255.6 256.8 256.8 256.4 255.2 255.3
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 12/04/89 03/07/90 03/09/90 06/12/90 09/24/90 12/20/90 03/27/91	5,600  8,100  23,000 19,000 15,000 11,000 11,000	3,000  1,800 5,900 6,500 3,200	2,400  1,700  3,400 3,400 2,600	7,500 16,000 11,000	47 40,000  73,000 85,000 72,000 100,000	          	14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.35 18.39 18.39 18.39 18.39 18.39 18.39 18.39	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8-256.8-256.7-256.5-9-255.6-256.8-256.4-255.3-7-258.9-25
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89 03/07/90 03/09/90 06/12/90 12/20/90 03/27/91 06/18/91	5,600  8,100  23,000 19,000 15,000 11,000 11,000	3,000  1,800 5,900 6,500 3,200 4,200 4,400	2,400 1,700 3,400 3,400 2,600 3,400 2,300	10,000  17,500 16,000 11,000 16,000 11,000	  47  40,000  73,000 85,000 72,000 100,000		14.44 14.44 17.16 18.51 18.71 19.32 19.95 19.87 19.59 18.39 18.39 18.87 19.99 21.57	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8 260.8 258.1 256.7 256.5 255.9 255.4 255.9 255.6 256.8 256.4 255.2 253.7 258.9 251.9
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 12/04/89 03/07/90 03/09/90 06/12/90 09/24/90 12/20/90 03/27/91 06/18/91 09/12/91	5,600  8,100  23,000 19,000 15,000 11,000 	3,000  1,800  5,900 6,500 3,200 4,200	2,400  1,700 3,400 3,400 2,600 3,400	10,000  7,500 16,000 11,000 16,000 11,000	73,000 85,000 72,000 100,000		14.44 14.44 17.16 18.51 18.71 19.95 19.87 19.35 19.59 18.39 18.39 18.87 19.99 21.57 16.32 23.33 23.96 12.08	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8-260.8-258.1256.57 256.57 255.93 255.42 255.68 256.88 256.44 255.22 253.77 258.99 251.33 263.20
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89 03/07/90 03/09/90 06/12/90 09/24/90 12/20/90 03/27/91 06/18/91 09/12/91 01/23/92 04/13/92	5,600  8,100  23,000 19,000 15,000 11,000 	3,000  1,800 5,900 6,500 3,200 4,200 4,400 	2,400 1,700  3,400 3,400 2,600 3,400 2,300	10,000  7,500 16,000 11,000 16,000 11,000	47 47 40,000 73,000 85,000 72,000 100,000		14.44 17.16 18.51 18.71 19.35 19.95 19.35 19.59 18.39 18.39 18.87 19.99 21.57 16.32 23.33 23.96 19.85	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.8-250.8-255.9: 255.9: 255.6: 256.8: 256.8-255.2: 253.7-255.9: 251.3: 263.2: 255.4:
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89 03/07/90 03/09/90 06/12/90 09/24/90 12/20/90 03/27/91 06/18/91 09/12/91 01/23/92 04/13/92 08/03/92	5,600  5,600  23,000 19,000 15,000 11,000   16,000	3,000 1,800 5,900 6,500 3,200 4,200 4,400	2,400 1,700 3,400 3,400 2,600 3,400 2,300  2,300	10,000  17,500 16,000 11,000 11,000 11,000	73,000 85,000 72,000 100,000 100,000	            	14.44 14.44 17.16 18.51 18.71 19.95 19.95 19.35 19.59 18.39 18.39 18.87 19.99 21.57 16.32 23.33 23.96 19.85 14.72	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.84 260.84 258.12 256.77 256.53 255.96 255.96 255.66 256.86 256.86 256.44 255.22 253.77 258.96 251.93 263.22 263.22
	04/03/89 05/08/89 06/05/89 07/12/90 08/10/90 09/13/89 10/04/89 11/03/89 12/04/89 03/07/90 03/09/90 06/12/90 09/24/90 12/20/90 03/27/91 06/18/91 09/12/91 01/23/92 04/13/92	5,600  8,100  23,000 19,000 15,000 11,000 	3,000  1,800 5,900 6,500 3,200 4,200 4,400 	2,400 1,700  3,400 3,400 2,600 3,400 2,300	10,000  7,500 16,000 11,000 16,000 11,000	47 47 40,000 73,000 85,000 72,000 100,000		14.44 17.16 18.51 18.71 19.35 19.95 19.35 19.59 18.39 18.39 18.87 19.99 21.57 16.32 23.33 23.96 19.85	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	260.84 260.84 256.77 256.57 255.93 255.93 255.68 256.86 256.85 256.87 255.27 253.27 253.27 253.26 253.27 253.27 253.27 253.27

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

WELL IC	)/ · · · [				ETHYL-	JASTRO VALLEY		ORGANIC			
ELEVATK			BENZENE	TOLUENE	BENZENE	XYLENE8	TPH-G	LEAD	DTW	SPT	WTE
(TOC)		DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(fest)	(feet)
C-7				-							
270	).70	03/26/85							9.61		259.96
2/0	3.70	07/03/86 03/26/87				==			10.74 10.08	0.00	260.62
		03/28/88							13.79	0.00	258.91
		03/10/89 04/03/89		 					10.42 9.14	0.00	260.28 261.56
	ľ	05/08/89	<b></b> -						11.91	0.00	258.79
	ŀ	06/05/89 07/12/90				==			11,54 13,45	0.00	259.16 257.25
	l	08/10/90			<u> </u>				13.37	0.00	257.33
		09/13/89	1.3	ND	10	ND	410		14.60	0.00	256.10
	ľ	10/04/89 11/03/89	<del></del>			<del></del>		<del></del>	15.17 15.28	0.00	255.53 255.42
		12/04/89	1	ND	5	ND	1,000		15.70	0.00	255.00
		03/07/90 03/09/90	2.8	 2.4	 3.5	2	 590		14.22 14.22	0.00	256.48 256.48
	Ì	06/12/90	ND	5	8.2	3.2	1,200		14.18	0.00	256.52
		09/24/90 09/24/90D	1,4 ND	1.9 2.4	1.4 1.4	2.2 1.5	400 580		15.44 15.44	SHEEN	AND THE PARTY OF
		12/20/90	NO	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 16.44	0.00	258.05 254.26
		06/18/91 09/12/91	ND	9.1	6.5	2.7	1,200***		17.05	0.00	253.65
		01/23/92	7.5	= -					16.92	0.00	253.78
		04/13/92 08/03/92	ND.	1	7.8	1.2 	890	 	13.00	0.00	257.70
		10/22/92**									
		01/18/93** 04/19/93	<del></del> -		<del></del>	<del></del>	<del>-</del> -				
C-8		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				· · · · · · · · · · · · · · · · · · ·					
	_ [	03/26/85							8.68		l
288	3.40	07/03/86 03/26/87							13.89 6.01	0.00	274.51 282.39
		03/28/88	==						10.66	0.00	277.74
		03/10/89							6,61	0.00	281.79
	1	04/03/89 05/08/89							6.46 8.97	0.00	281,94 279.43
		06/05/89	<u></u>	<u></u>			0.000.000.0000.000000000000000000000000		10,88	0.00	277.52
		07/12/90 08/10/90							12.15 12.46	0.00	276.25 275.94
		09/13/89	ND	ND	ND	ND	ND		12.78	0.00	275.62
		10/04/89 11/03/89		<del></del>					12.51 14.63	0.00	275.89 273.77
		12/04/89	0,6	0.6	ND.	1	64		9.59	0.00	278.81
		03/07/90 03/09/90	 ND	 ND	 ND	 ND	ND		8.80 8.80	0.00	279.60 279.60
	1	06/12/90	2.5	1.2	1	1.4	120		8.94	0.00	279.46
	ı	09/24/90					* >500 00 5.00 00 00 <u>0 6.00</u>		13.54	0.00	274.86
	l	12/20/90 03/27/91	0.7	ND	 0.7	1.9	 54		9,33 6,10	0.00	279.07 282.30
	[	06/18/91							11.96	0.00	276.44
	ŀ	09/12/91 09/12/91D	ND ND	ND ND	ND ND	ND ND	ND ND		13.60 13.60	0.00	274,80 274.80
	ţ	01/23/92		101111000000000000000000000000000000000					24,20	0.00	264.20
		04/13/92 08/03/92	ND ND	ND ND	ND ND	ND ND	ND ND	 ND	8.35 12.58	0.00	280.05 275.82
	ľ	10/22/92	ND	ND	ND ND	ND	ND		13.10	0.00	275.30
		01/18/93 04/19/93	ND ND	ND ND	ND	ND ND	ND ND	********** <u>*</u>	6.12 7.05	0.00	
<u> </u>	1	UN/ 13/30	ND.	ND	ND ND	I NU	I NO		<u> </u>	1 0.00	281.35

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

				ETHYL-		, CALIFORNIA	ORGANIC			
WELL ID/		DENZENE	TOURENE	posterior in all the forest designation	XYLENE8	TPH-G	LEAD	DTW	SPT	WTE
ELEVATION		BENZENE	TOLUENE	BENZENE	Francis (1990)	(ppb)	(ppb)	(feet)	(feet)	(teet)
(тос)	DATE	(ppb)	(ppb)	(PPp)	(ppb)	 			····/ioari	on free china
C-9								40.00	0.00	254.57
268.46	07/03/86							13.89 13.74	0.00	254.72
	03/26/87							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 15.36	0.00	254.08 253.10
	06/05/89 07/12/90							15.65	0.00	252.81
	08/10/90		<b></b>	<del>-</del> -				15.80	0.00	252.66
	09/13/89	14,000	1,100	2,800	4,200	42,000		16,53	0,00	251.93
:	10/04/89							16.52 16.51	0.00	251.94 251.95
	11/03/89 12/04/89	11,000	670	2,500	3,800	36,000	1	16.79	0.00	251.67
	03/07/90	11,000						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 3,700	4,800 6,800	39,000 120,000		14.88 16.30	0.00	253,58 252,16
	09/24/90 12/20/90	13,000 9,300	1,600 560	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#					T				····
	04/13/92#									
	08/03/92#									
	10/22/92#							* * * * * * * * * * * * * * * * * * *		<del></del>
	01/18/93#				-					
C 40A						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
C-10A 264.84	03/07/90							20.21	0.00	244.63
204.04	03/09/90	1.6	0.7	8.0	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 ND	ND ND		19.54 19.84	0.00	245.30 245.00
	12/20/90 03/27/91	ND	ND	IND	ND	140		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 0.0	ND	ND ND	ND	ND 53		20.67 19.40	0.00	244.17 245.44
	04/13/92 08/03/92	0.9 ND	1.5 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					1					
264.85	03/07/90						 	21.44 19.94	0.00	243.41 244.91
	06/12/90 09/24/90	ND ND	ND ND	ND 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			ND	1	 ND		20.44 20.82	0.00	244.41 244.03
	09/12/91	ND ND	ND 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 8.9	ND 60		20.12 17.36	0.00	244.73 247.49
<u> </u>	01/18/93	3.3 ND		2.1 ND	ND			17.90	0.00	246.95
<u> </u>	1 0-113/33	ı iND	, ND	1 190	۷۱۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰	110		,,,,,,,	. 5.55	

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

C-11   265.30   03/07/90   -	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	242.56 243.32 243.42 242.12 243.78 242.60 241.84 243.73 242.63 242.01 243.94 245.33
C-11   265.30	0.00  0.00 0.00 0.00 0.00 0.00 0.00	242.56 243.32 243.42 242.12 243.78 243.40 242.60 241.84 243.73 242.63 242.01 243.94
C-11 265.30 03/07/90 06/12/90 ND	0.00  0.00 0.00 0.00 0.00 0.00 0.00	242.56 243.32 243.42 242.12 243.78 243.40 242.60 241.84 243.73 242.63 242.01 243.94
265.30 03/07/90 1.2 0.77 ND 1.14 ND	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	243.32 243.42 242.12 243.78 243.40 242.50 241.84 243.73 242.63 242.01 243.94
03/08/80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	243.32 243.42 242.12 243.78 243.40 242.50 241.84 243.73 242.63 242.01 243.94
06/12/90 ND	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	243.42 242.12 243.78 243.40 242.50 241.84 243.73 242.63 242.01 243.94
09/24/90	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	243.42 242.12 243.78 243.40 242.50 241.84 243.73 242.63 242.01 243.94
12/20/90	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	242.12 243.78 243.40 242.50 241.84 243.73 242.63 242.01 243.94
06/18/91	0.00 0.00 0.00 0.00 0.00 0.00 0.00	243.40 242.50 241.84 243.73 242.63 242.01 243.94
06/18/91	0.00 0.00 0.00 0.00 0.00 0.00	242.50 241.84 243.73 242.63 242.01 243.94
01/23/92   ND   ND   ND   ND   ND   ND   ND   22.450	0.00 0.00 0.00 0.00 0.00 0.00	241.84 243.73 242.63 242.01 243.94
04/13/92	0.00 0.00 0.00 0.00 0.00	243.73 242.63 242.01 243.94
08/03/92	0.00 0.00 0.00 0.00	242.63 242.01 243.94
10/22/92 ND	0.00 0.00	242.01 243.94
C-12   269.66   03/07/90               14.92     14.79     20.3/6     14.79     14.79     15.26     15.26     15.26     15.26     15.26     16.38               16.38     16.38     16.38     16.38     17.55	0.00	
C-12 269.66 03/07/90 03/09/90 05/12/90 190 71 18 73 720 14.79 09/24/90 210 26 8.2 23 810 15.72 12/20/90 210 26 8.2 23 810 15.26 03/27/91 350 220 52 210 2,900 12.11 06/18/91 16.38 09/12/91 59 12 4.5 8.5 350 17.55 01/23/92 110 03/17/92 110 04/13/92 1100 76 100 08/03/92 200 21 13 25 520 ND 15.83 10/22/92 310 66 35 56 1,300 14.40 08/03/92 200 21 13 25 520 ND 15.83 10/22/92 310 66 35 56 1,300 14.17 04/19/93 600 99 96 170 2,000 11.18 03/09/90 04/19/93 600 099 96 170 2,000 11.18 03/09/90 04/19/93 600 099 96 170 00/24/90 2.6 ND		245.33
269.66 03/07/90		
269.66 03/07/90	0.00	1
05/12/90	0.00	254.74
09/24/90		
12/20/90	0.00	254.87
03/27/91   350   220   52   210   2,900     12.11     06/18/91	0.00	253.94 254.40
06/18/91	0.00	257,55
09/12/91   59	0.00	253.28
01/23/92 110 31 7.9 22 450 17.11   04/13/92 1,100 76 100 200 5,000 14.40   08/03/92 200 21 13 25 520 ND 15.83   10/22/92 310 66 35 56 1,300 16.14   01/18/93 1,200 430 220 610 5,600 11.70   04/19/93 600 99 96 170 2,000 13.05    C-13  284.32 03/07/90 11.18   03/09/90 15 3.7 1 6.2 ND 11.70   06/12/90 2.6 ND ND ND ND ND 10.70   09/24/90 2.4 ND ND ND ND ND 11.60   12/20/90 1.6 ND ND ND ND ND 11.60	0.00	252.11
08/03/92 200 21 13 25 520 ND 15.83 10/22/92 310 66 35 56 1,300 16.14 01/18/93 1,200 430 220 610 5,600 11.70 04/19/93 600 99 96 170 2,000 13.05 C-13 284.32 03/07/90 11.18 03/09/90 15 3.7 1 6.2 ND 10.70 06/12/90 2.6 ND ND ND ND ND 10.70 08/24/90 2.4 ND ND ND ND ND 11.60	0.00	252.55
10/22/92 310 66 35 56 1,300 16.14 01/18/93 1,200 430 220 610 5,600 11.70 04/19/93 600 99 96 170 2,000 13.05 04/19/93 600 0 99 96 170 2,000 13.05 04/19/93	0.00	255.26
01/18/93	0.00	253.83 253.52
C-13 284.32 03/07/90 11.18 03/09/90 15 3.7 1 6.2 ND 10.70 06/12/90 2.6 ND ND ND ND ND 10.70 09/24/90 2.4 ND ND ND ND ND 11.80 12/20/90 1.6 ND ND ND ND ND 10.16	0.00	257.96
C-13 284.32 03/07/90 11.18 03/09/90 15 3.7 1 6.2 ND 06/12/90 2.6 ND ND ND ND ND 10.70 09/24/90 2.4 ND ND ND ND ND 11.80 12/20/90 1.6 ND ND ND ND ND 10.16	0.00	256.61
284.32 03/07/90 11.18 03/09/90 15 3.7 1 6.2 ND 10.70 06/12/90 2.6 ND ND ND ND ND ND 10.70 09/24/90 2.4 ND ND ND ND ND ND 11.60 12/20/90 1.6 ND ND ND ND ND ND 10.16		
03/09/90   15   3.7   1   6.2   ND	0.00	273.14
06/12/90 2.6 ND ND ND ND 10.70 09/24/90 2.4 ND ND ND ND ND 11.60 12/20/90 1.6 ND ND ND ND ND 10.16		
09/24/90 2.4 ND ND ND ND 11:50 12/20/90 1.6 ND ND ND ND 10:16	0.00	273.62
1 12/20/90 1.6 ND ND ND ND ND 10.16	0.00	All the first that the second of the second
$ +  1 \ldots \ldots \ldots 1 \ldots \ldots \ldots \ldots 1 \ldots \ldots \ldots \ldots 1 \ldots	0.00	274.16
09/27/91 7.64	0.00	276.68
06/18/91	0.00	273.00 272.48
01/23/92 10.55	0.00	273.77
04/13/92 1 ND ND ND 10.96	0.00	273.36
08/03/92 ND ND ND ND ND 10.90	0.00	273.42
10/22/92 11.18	0.00	
01/18/93 54 10 5.4 12 290 7.40 04/19/93 8.93	0.00	
	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 13.42	0.00	257.32
06/12/90 ND ND ND ND ND 13.42   09/24/90 ND ND ND ND ND ND 12.84	0.00	
12/20/90 1.7 0.7 ND 0.7 ND 16.72	0.00	riginal and the second control of the second
03/27/91 ND ND 1.3 ND 8.00	0.00	262.74
06/18/91 15.21	0.00	
09/12/91   ND   ND   ND     15.61	0.00	
01/23/92 24.64 04/13/92 ND ND ND ND ND 12.21	100000	and the same of th
04/13/92 ND ND ND ND ND 12.21   08/03/92 ND ND ND ND ND ND ND 14.64	0.00	4.00
10/22/92 16.94	0.00 0.00	
01/18/93 ND ND ND ND 5.10	0.00	
04/19/93 6.88	00.00 00.00 00.0	265.64 263.86

Page 6 of 7

GROUNDWATER

TECHNOLOGY

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

WELL ID/				ETHYL-			ORGANIC			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WIE
(тос)	DATE	(ppb)	<u>(ppb)</u>	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-15										
246.15	03/07/90							11.10	0.00	235.05
	03/09/90	NO	1.4	0.5	0.6	410	<u> </u>	***********		
į ľ	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	00.0	235.22
ĺ	12/20/90	1.3	1.1	0.6	1.5	300	:	11.08	0.00	235.07
İ	03/27/91	4.6	1.1	ND	1	520***	<u></u>	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	1.5	ND	ND	320	==	10.83	0.00	235,32
ļ. ļ.	09/12/91	ND	0.9	ND	ND	330***		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	Ŋ	NO	430		9.58	0.00	236,57
	08/03/92 10/22/92	ND ND	2.1	0.7	1.3	640 420	ND	11.21 11.65	0.00	234.94 234.50
	01/18/93	7.0	ND 3.0	ND 2.9	0.8 6.7	640		7.12	0.00	239.03
	04/19/93	7.0 6.0	3.0 2.0	2.9 0.7	ND	260***		8.93	0.00	237.22
			£.V.		IND	200			0,00	يعي ردعي
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	<b></b>	11.42	0.00	235.27
	09/24/90	NO	ND	ND	ND	ИĎ		11.39	0.00	235.30
ļ ļ	12/20/90	ND	ND	ND	0.7	ND.		11.57	0.00	235.12
	03/27/91	NO	ND	ND S	1.3	ND ND		8.76 8.76	0.00	237,93 237,93
	03/27/91D	ND ND	ND ND	ND ND	1.2 ND	ND:		11.18	0.00	237.93
	06/18/91 09/12/91	ND	DN ND	ND ND	ND ND	ND ND		11.95	0.00	234.74
]	01/23/92	NO NO	ND	ND ND	ND:	ND		12.41	0.00	234.28
İ	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
i i	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	12/04/89	29,000	1,700	1,800	8,800	62,000				
274.52	03/07/90	29,000	1,700	1,800	<b>0,000</b>	62,000		18.50	0.00	256.02
2,4.02	06/12/90	15,000	2,000	560	3,100	31,000		18.49	0.00	256.03
	09/24/90					0.,000				
ŀ	12/20/90	0.5	ND	DN	1.2	ND				
	03/27/91	00.000000000000000000000000000000000000	······································		**************************************	ologo do dosto do comercio la			**************************************	<del></del>
[	06/18/91			<del>-</del>	<del>-</del> -					
	09/12/91#		· · · · · · · · · · · · · · · · · · ·							
	01/23/92#	!	ooroonoonoonoonoonoonoonoonoonoonoonoono						<del></del>	
	04/13/92#									<del>-</del> -
[	08/03/92#	1							<del>-</del> -	
	10/22/92#			******* <del>-</del>				<del></del> -		× × ++
	01/18/93#	]								
[	04/19/93#			\$200 000000 00000000000 T		-4.				· · ·

#### 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.

Page 7 of 7 GROUNDWATER TECHNOLOGY

### ATTACHMENT I

LABORATORY REPORTS

AND

CHAIN-OF-CUSTODY MANIFESTS





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: 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.

Pollen F. Bullen

Eileen F. Bullen

Laboratory Director

### Table 1

### **ANALYTICAL RESULTS**

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

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					
Date Analyzed		05/01/93 05/01/93 05/01/93 05/01							
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					
Ethylbenzene	0.5	<0.5	<0.5 <0.5 <0.5						
Xylene, total	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				

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.



### Table 1 (Continued)

### **ANALYTICAL RESULTS**

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

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							
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	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	5					
BFB surrogate, % recovery		94.7	96.1	90.1	98.0				

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

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 8015a

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							
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				

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.



### Table 1 (Continued)

### **ANALYTICAL RESULTS**

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

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		050193GCM			
Client Identification		METHOD BLANK			
Date Sampled					
Date Analyzed	-	05/01/93			
Analyte	Detection Limit, ug/L		Concentrat	ion, 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			

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.

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Fax cop	y of l	_ab	Rep	ort (	and	COC to	Che	vron	Со	ntac		No				Cl	<u>jair</u>	<u>1-0</u>	f-0	us	lody-Rec	orď
Chevron U.S P.O. BOX S San Ramon, C FAX (415)84	5004 X 84583	Const	Facility Address 5267 Crow Canyon Rd Castra Valle  euklant Project Number 02070-  Laboratory Name Laboratory Release Huminature Castra Valle  Laboratory Release Huminature Castra Market Castra Samples Collected by (Norders 1900)  Project Contact (Name) Bruce Epples  Collection Date										Chevron Contact (Name)									
Scriple Number	Lab Sample Number	Number of Containers	Matrix S = Soli A = Alr W = Water C = Charcool	Type G = Grab C = Composite D = Discrete	Į.	Sample Preservation	Icad (Yes or No.)	BTEX + TPH CAS (8020 + 8015)	TPH Dissel (8015)	Oil and Greams (5520)	Purpeable Holocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organica 37 (82.40)		<del></del>		• .,		·		NOTE: DO NOT BILL TB-LB SAMPI Deal and 3.8 Dead 4/20/92	LES
TB-LB	01 2	z	W /	ئ	1300	1162	Y	/					ļ						 	ļ		
Rinsate	02 /	2			1310	<u></u>	_			ļ	<u> </u>		-	ļ		<del></del>	<del></del>	<u> </u>	ļ		 	
C-16	03~	ን			1320					ļ								ļ	<u> </u>	 		
C-11	04/	3			1340	<u>                                     </u>		_  _		<u> </u>		<u> </u>	_		3		ļ	<b> </b>		<b> </b>		
C-106	()5 V	4			1352			-	ļ			<b> </b>	<u> </u>	ļ	-		ļ <u>.</u>	-			20	
C-8	1)(0	3		11_	1400			_	<u> </u>	ļ			_	<u> </u>		<u> </u>	ļ <u>.</u>		30	75	1210	
C-10a	07 0	3			1412				<u> </u>		<u> </u>		<del> ,</del>	J	3	<u> </u>		ļ	<u> </u>			
C-12	08 r	1			1410	<u> </u>		-  -		.	ļ			<u></u>	<u> </u>	-	ļ	<u> </u>	<u> </u>	·}		
c-1	19 V	1	1_/_	11	1430		_ _	_	ļ	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>		12	<del> </del>	<u> </u>	<del> </del>	ļ		
C-3	10 4	13		]	1440	<u> </u>		14				<b> </b>		<u> </u>	<u> </u>	100	<del> </del>	<del> </del>	<u> </u>	<u> </u>		
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C-15	17 2	/ >	1	1	1330	<u>,                                    </u>	1		-	-				<u> </u>	<u> </u>		 		-	<u>.                                    </u>		
		<del>                                     </del>	<u> </u>	-				-			<del> </del>			<del>                                     </del>	1		<del> </del>	1		<del>                                     </del>		
Relinquished By	(Signolure)	<u> </u>	On	ponization	,'	Date/Time		ecelyed I	-			1	Organiza	lion	Dai	•/Tim•			Turn Ar	ound T	lme (Circle Cholce)	
John m		<u></u>	0	2320	ب ر	4/19/73		Joli	<u>. W</u>	sey			<u>GT</u>	<u> </u>			1252	}			4 Hre.	
Relinquished By	(Signature)			ganizaVor	1	Dale/Ilme	,	ebelved I	3y (Sigr	rolur#)	_		Organiza	llon	Do	i•/Time					6 Hre. Doye	
Relinquished By	(Signature)	<del></del>		3-7E		4/20 145 Dote/Time		egeved I		١,	By (Stor	odure)	Di		200	#/Time		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		10	Days ontracted	
•			1				_12	(XXX)	9/11		<u>S Il</u>	12	Ry		1/0	44	<u> </u>	<u> </u>			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	



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

FAX (916) 372-8781

September 14, 1993

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

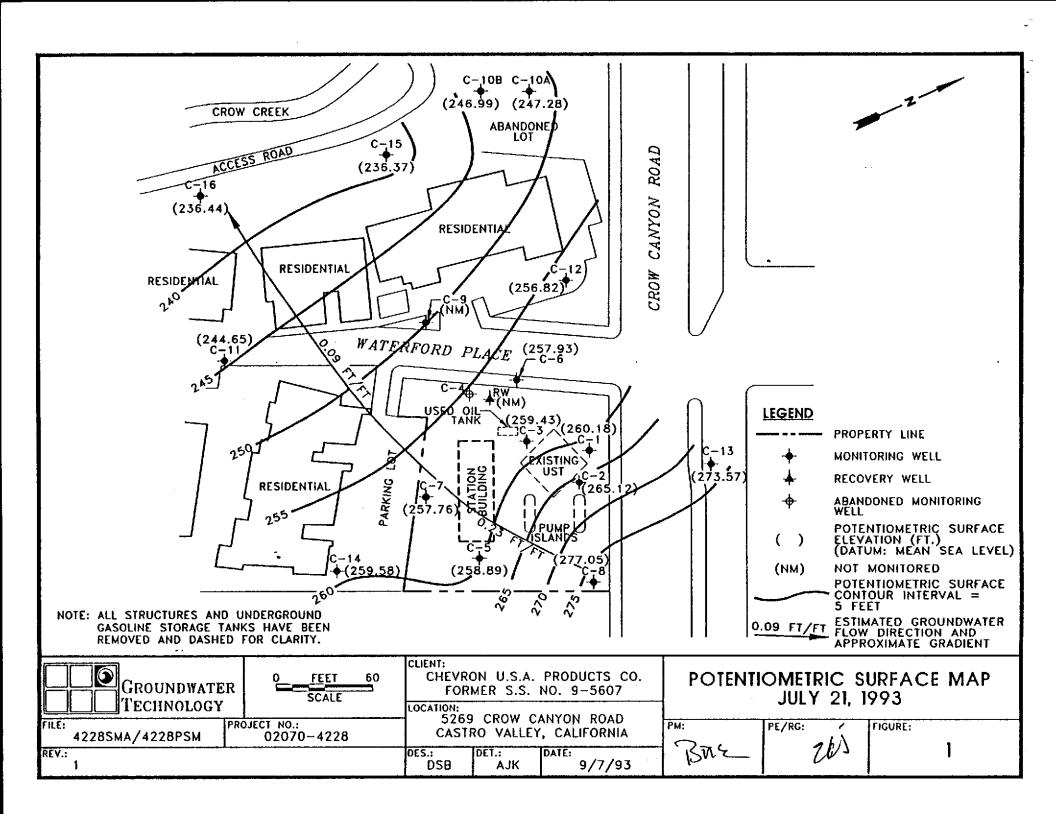
Groundwater Technology, Inc.

Reviewed/Approved by

E. K. SIMONIS, R.G.

Senior Environmental

No. 4422 STATE OF CALIFORNIA



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

WELL ID/				ETHYL-			ORGANIC	200 2008 : 10 00 00 00	0.00	0.000 10-0 000-0
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(тос)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-1								•		
283.46	03/26/85							22.83	0.00	260.63
	07/03/86 03/26/87				<del></del>			23.58 20.50	0.00	259.88 262.96
	03/28/88		::::::::			L		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 06/05/89		**************************************					22.68 24.68	0.00	260.78 258.80
	07/12/90		<del></del>				l	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 25.24	0.00	256.91 258.22
	10/04/89 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	11	22.59	0.00	260.87
	03/27/91					-		19.08	0.00	264.38 256.35
	06/18/91 09/12/91							27.11 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	257.3
	10/22/92 01/18/93	3,500 6,900	1,400 8,900	1,500 3,100	4,300 23,000	24,000 370,000		26.79 18.60	0.00	256.67 264.86
	04/19/93	8,000	7,000	1,400	10,000	51,000		21.12	0.00	262.3
	07/21,22/93	3,400	1,000	990	3,100	22,000		23.28	0.00	260.18
D-2										
284.37	03/26/85			i.,						
	07/03/86						4-1	19.69 15.45	0.00	264.68 268.92
	03/26/87 03/28/88					l:::::::::::::::::::::::::::::::::::::		20.92	0.00	263.4
	03/10/89		— <del>-</del>					12.80	0,00	271.5
	04/03/89							14.26	0.00	270,1
	05/08/89 06/05/89	——			= = markan da dasa ili ili			18.42 20.09	0.00	265.95 264.25
	07/12/90	######################################						20.79	0.00	263.50
	08/10/90					<b> </b>	1:::::::::::::	21.40	0.00	262.97
	09/13/89	62	4	10	14	320		21.86	0.00	262.5
	10/04/89		<b>*</b>					19.89 20.76	0.00	264.48 263.61
	11/03/89 12/04/89	240	37	66	130	1,000		20.82	0.00	263.5
	03/07/90							17.83	0.00	266.5
	03/09/90	280	35	27	50	390		17.83	0.00	266.5
	06/12/90 09/20/90	260	34	28	55	700	<u></u>	19.89 21.97	0.00	264.44 262.44
	12/20/90							17.73	0.00	266.6
	03/27/91		aŭ dade	1, 4 1, 149 <del></del> -			1	15.10	0.00	269.2
	06/18/91							22.68	0.00	261.69
	09/12/91 01/23/92				<u> </u>			23.92 21.24	0.00	260.45 263.13
	04/13/92	120	76	17	72	1,100		17.54	0.00	266.83
	08/03/92							22.05	0.00	262.3
	10/22/92		## J####					23.03	0.00	261.34
	01/18/93 04/19/93	6.4	ND	ND	ND 	70		14.86 16.80	0.00	269,51 267,57
	07/21,22/93			1		==		19.25	0.00	265.12
·			<u> </u>	<del></del>	<del></del>	<del></del>				

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

WELL ID/				ETHYL-			ORGANIC	1000		200.700
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-3			VP-/	PPP/		(PP-)	(PP=)	1,000	1,000	
285.98	03/26/85							-		1
200.90	07/03/86		000000000000000000000000000000000000000				NO. CONTRACTOR (NO. CONTRACTOR)	26.04	0.00	259.94
	03/26/87							25.64	0.00	260.34
	03/28/88		7862000000000000000000000000000000000000					28.82	0.00	257.16
	03/10/89				- 26000000000000000000000000000000000000			22.78	0.00	263.20
	04/03/89	************	<u></u>		· · · · · · · · · · · · · · · · · · ·		(0.00)	22.71	0.00	263.27
	05/08/89				- Succession and an an an			25.95	0.00	260.03
	06/05/89	· · · · · · · · · · · · · · · · · · ·	0.0000000000000000000000000000000000000				10000000000000000000000000000000000000	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 03/07/90	1,300	3,300	1,400	2,700	56,000		29,01 27,69	0.00	
	03/09/90	1,100	5,700	1,600	7.900	42,000		27.69	0.00	258.29 258.29
	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	000000000000000000000000000000000000000	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		1000000000000000000000000000000000000	***				30.84	0.00	255.14
	09/12/91e			- 100-100-100-100-100-100-100-100-100-10	58 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			31.64	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	500607150717711701377444	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	decrease entropy of the construct						15.14	0.00	257.87
	07/03/86							15.37	0.00	257.64
	03/26/87		— — 	**************************************		ALAKAH AN KANYA IN				
	03/28/88 03/10/89							18.04	-0.00	254.97
	04/03/89		40.000000000000000000000000000000000000	scalarce versions of Eq.	75 7 Best. <u>2.1</u> 0	basidasi II	raasar orvatu. Leta	13.34	0.00	259.67
	05/08/89							15.60	0.00	257.41
	06/05/89	::::::::::::::::::::::::::::::::::::::	**************************************	8869 5 188 38 8 <b></b>	3343800088688 <b>—</b> —1	ataan tankiisi4_121	0.04084 s <b></b>	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	S. (1477) 2 S. (144) - 144 (1	18.16	0.00	254.85
	10/04/89		P8(28088) 2 - 14 (2 <u>4 - 4</u> )			Berran He		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		with with			· · · · · · · · · · · · · · · · · · ·		18.11	0.00	254.90
	12/20/90b									

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

WELL ID/				ETHYL-			ORGANIC	0380000	d'all	
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WIE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-5										
287.95	03/26/85							25.33	0.00	262.62
	07/03/86 03/26/87							26.41 24.96	0.00	261.54 262.99
	03/28/88							29.80	0.00	258.15
	03/10/89							25.89	0.00	262.06
	04/03/89 05/08/89							24.38 27.80	0.00	263.57 260.15
	06/05/89					P##		29.42	0.00	258,53
	07/12/90 08/10/90		— —	 				29.86 29.77	0.00	258.09 258.18
	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 12/04/89	ND	 ND	ND	ND	DN		31.32 31.70	0.00	256.63 256.25
	03/07/90							30.28	0.00	257.67
	03/09/90	ND	ND	ND	ND ND	ND 00		30.28	0.00	257.67
	06/12/90 09/24/90	ND ND	ND ND	ND ND	ND ND	90 ND		30.48 31.78	0.00	257.47 256.17
	12/20/90	ND	ND	1.0	0.7	170		33.29	0.00	254.66
	03/27/91 06/18/91							27.98 32.52	0.00	259.97 255.43
	09/12/91				le : : : : : : : : : : : : : : : : : : :	ara mana <u>w</u>	200000000000000000000000000000000000000	33.37	0.00	254.58
	01/23/92							32.67	0.00	255.28
	04/13/92 08/03/92	ND ND	ND ND	0.7 ND	ND ND	140 ND	ND D	28.48 32.50	0.00	259.47 255.45
	10/22/92						<u></u>	33.98	0.00	253.97
	01/18/93	6.6	2.2	9.4	2.2	230		27.02	0.00	260.93
	04/19/93 07/21,22/93	ND	0.6	ND	 ND	130		24.81 29.06	0.00	263.14 258.89
C-6										
	03/26/85						;	16.74		
275.28	07/03/86							17.46	0.00	257.82
	03/26/87 03/28/88		 	lesson santi				18.37 29.84	0.00	256.91 245.44
	03/10/89			<b></b>				14.44	0.00	260.84
	04/03/89 05/08/89							14.44 17.16	0.00	250.84 258.12
	06/05/89			factivity trans-		ar led to tr——	900000-4	18.51	0.00	256.77
	07/12/90		——					18.71	0.00	256.57
	08/10/90 09/13/89	5,600	 3,000	2,400	10,000	47		19.32 19.95	0.00	255.96 255.33
	10/04/89							19.87	0.00	255.41
	11/03/89						Residence and Committee	19.35	0.00	255.93
	12/04/89 03/07/90	8,100	1,800	1,700	7,500	40,000		19,59 18.39	0.00	255.69 256.89
	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 12/20/90	15,000 11,000	3,200 4,200	2,600 3,400	11,000 16,000	72,000 100,000		19.99 21.57	0.00	255.29 253.71
	03/27/91	11.000	.6544 : <b>4,400</b>	2,300	11,000	100,000		16.32	0.00	258.96
	06/18/91 09/12/91	 		o state of T				23.33 23.96	0.00	251,95 251,32
	01/23/92	ure invested of the first						12.08	0.00	263.20
	04/13/92					400 000		19.85	SHEEN	255.43
	08/03/92 10/22/92	16,000 7,400	1,100 920	2,300 1,600	15,000 14,000	120,000 63,000	ND	14.72 14.91	0.00	260.56 260.37
	01/18/93	13,000	1,600	2,700	12,000	77,000		15.44	0.00	259.84
	04/19/93 07/21,22/93	14,000 6,600	1,100	2,400	9,100	56,000		9.25	0.00	266.03
<del></del>	VI141,44183	6,600	610	1,500	5,800	38,000	<u> </u>	17.35	0.00	257.93

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

<u>/                                    </u>		DENTENE	TALLICAL	ETHYL-	VVI ENEO	א עמד	ORGANIC	DTW.	epr	WITE
JPK .	DATE	6.5.1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	\$300 kg (100 kg 100 kg (100 kg 100 kg (100 kg 100 kg (100 kg (	4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Great Control of the Control of the	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	CONTRACTOR CONTRACTOR	K8860 Act 1 - 1,866	1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 NO 1000 N	WIE (feet)
0.0000000	Marie CA II Emmare	- Control of the Cont		CONDITION	ррод	עעעע	(hhn)	(100t) ···	(1400)	1.001
	03/26/85							9.61		
.70	07/03/86	<del></del>						10.74	0.00	259,96
							CONTRACTOR CONTRACTOR		0.00	260.62 256.91
	03/10/89							10.42	0.00	260.28
		<b></b>			<del></del>					261.56 258.79
	06/05/89	<u> </u>		200 000 000 000 000 <u>000 000</u> <u>11</u> .				11.54	0.00	259.16
	latina anno 10 de la companyo	— —		— — :::::::::::::::::::::::::::::::::::					1	257.25 257.33
	09/13/89	1.3	<b>N</b> D	10	ND	410		14.60	0.00	256.10
	10/04/89	<del></del>						especialization in a contract of the	0.00	255.50 255.40
	12/04/89	1		5	ND	1,000	# 000000 # 000000 # 0000000		0.00	255,0
	03/07/90						:	14.22	0.00	256.4
			2. <b>4</b> 5	process contracts and a second at a second	3.2	1,200		14.18	0.00	256.48 256.53
	09/24/90	1.4	1.9	1.4	2.2	400		15.44		255.26
						t	la como como como a como de statistica de la como como como de la como como como de la como como como de la como como como como como como como com			255.26 253.6
	03/27/91	ND	2.4	9.1	3	980		12.65	0.00	258.0
		<b>N</b> U	 9 1	 65	7 - 2 7	1 200c			announced a 1 to 100	254.21 253.61
	01/23/92		<u> </u>				909-901-009-91-002-109-9 00	16.92	0.00	253.7
		ND	1	7.8	1.2	830		13.00	0.00	257.7
	10/22/92b			**************************************					**************************************	1.32 Vm = 1
	01/18/93b	<del>- 4</del> .						**************************************		688 (1681) X
		1				890	×	12.94	0.00	257.70
	03/26/85				<del></del> .			8.68		
.40						1.000.00			A continue 7 in it is a	274.5 282.3
-	03/28/88							10.66	0.00	277,7
					445.00 m25.		 約55-355-355- <u></u>			281.7 281.9
	05/08/89	<del></del>						8.97	0.00	279.4
	06/05/89							10.88	0.00	277.5 276.2
	08/10/90	<del>-</del>		193 (55.0) (55.0)	1 44 jp. (4.44 = 4.4	maza 🛶		12.46	0.00	275,9
	09/13/89	ND	ND	ND	ND	ND		12.78	0.00	275.6
		<del></del>				(fo w≪o- <b></b> ) 				275.89 273.7
	12/04/89	0.6	0.6	ND	ainian istri	64		9.59	0.00	278.8
-		ND. 		ND.	ND ND	ND.			4	279.60 279.60
1	06/12/90	2.5	1.2	1	1.4	120		8.94	0.00	279.40
1	09/24/90								0.00	274.80 279.0
					1	54		6.10	0.00	282.3
	06/18/91		· · · ·			7.5		11.96	0.00	276.4
		ND ND	ND		DN ND	ND ND		13.60	0.00	274.80 274.80
	01/23/92		. 3354.00 <b></b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			24.20	0.00	264.20
							ND		4	280.0 275.8
	10/22/92	ND	ND	ND.	ND	ND		13.10	0.00	275.30
	01/18/93	ND	ND ND	ND		ND ND		6.12 7.05	0.00	282,28 281.35
	04/19/93 07/21,22/93	ND.	GIA CONTRACTOR			ND ND		11,35	0.00	277.05
	.70	03/26/85 07/03/86 03/26/87 03/28/88 03/10/89 04/03/89 05/08/89 05/08/89 05/08/89 07/12/90 08/10/90 09/13/89 11/03/89 12/04/89 03/07/90 03/27/91 06/18/91 01/23/92 04/13/92 04/13/92 04/13/93 03/26/85 03/26/87 03/26/85 03/26/87 03/26/88 03/10/89 04/19/93b 07/21,22/93 04/13/89 05/08/89 06/05/89 07/12/90 08/10/90 08/10/90 08/10/90 09/13/89 11/03/89 05/08/89 06/05/89 07/12/90 08/10/90 08/10/90 09/13/89 11/03/89	DATE (ppb)  03/26/85 03/26/87 03/26/87 03/28/88 03/10/89 04/03/89 06/05/89 06/05/89 08/10/90 09/13/89 1.3 10/04/89 1.3 10/04/89 1.3 10/04/89 1.3 10/04/89 1.3 10/04/89 1.3 03/07/90 03/09/90 2.8 06/12/90 ND 08/24/90 ND 08/03/92 ND 08/03/92 ND 08/03/92 ND 08/03/92 ND 08/03/98 ND 07/21:22/93 0.9	DATE	DATE   DATE	DATE	DATE   BENZENE   TOLUENE   BENZENE   XYLENES   TPH-G   (ppb)    DATE	DATE	DATE   DATE	

GROUNDWATER
TECHNOLOGY

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

WELL ID/	1.00.0000 4.0000000000000000000000000000	Coloron Con perhassing Con	Bassasan and Bass	ETHYL-	A Commission of the control of		ORGANIC	664659-437 1495		g-100 to 20000 TJR
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(тос)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feat)	(feet)
C-9			, , , , , , , , , , , , , , , , , , ,		<u> </u>			1.000	- BENTIAL VIEW	(SS) (T) 1.
268.46	07/03/86			l				13.89	0.00	254.57
	03/26/87			· · · · · · · · · · · · · · · · · · ·				13.74	0.00	254.72
	03/28/88		0000 00 00 00 0000					14.99	0.00	253.47
	03/10/89 04/03/89							13,39	0.00	255.0
	05/08/89		**************************************		02:00:00:00:00:00:00:00:00:00:00:00:00:0			12.84 14.38	0.00	255.6: 254.0
	06/05/89	<b>-</b> 4 -						15.36	0.00	253.10
	07/12/90				100.000 C 000 C 100	3 CONTROL (1982)	15.65	0.00	252.8	
	08/10/90 09/13/89							15.80	0.00	252.6
	10/04/89	14,000	1,100	2,800	4,200	42,000		16.53 16.52	0.00	251.9 251.9
	11/03/89							16.51	0.00	251.9
	12/04/89	11,000	670	2,500	3,800	36,000		16,79	0.00	251.6
	03/07/90 03/09/90	12,000	040		4 700			16.22	0.00	252.2
	06/12/90	11,000	940 1,600	3,000 2,300	4,700 4,800	28,000 39,000		16.22 14.88	0.00	252.24 253.54
	09/24/90	13,000	1,600	3,700	6,800	120,000	<del></del>	16.30	0.00	252.1
:	12/20/90	9,300	560	2,800	3,300	51,000	5486 488 USS <u>5</u> <u>-3</u>	17,23	0.00	251.2
	12/20/90D 03/27/91	12,000 3,400	580	2,800	3,500	44,000		17.23	0.00	251.23
	06/18/91	3,700	5,000 	1,600	5,600 	56,000		13,78 18.64	D.00 0.00	254.6 249.8
	09/12/91d				60 000 000 000 000 000 <u>1</u>					
	01/23/92d									
	04/13/92d 08/03/92d									000000000000000000000000000000000000000
	10/22/92d						5-00-00-00-00-00-00-00-00-00-00-00-00-00	00000000000000000000000000000000000000		
	01/18/93d		<del></del>	odeoceoodoxios.os pueduse como — —					- <del>-</del>	
	04/19/93d	<u></u>						3 5 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0000101, 11 <u>16</u> 9000001,4000 1
	07/21,22/93d									
C-10A			4				•			
264.84	03/07/90 03/09/90							20.21	0.00	244,63
	06/12/90	1.6 ND	0.7 ND	0.8 ND	9.5 ND	ND ND		19.70	0.00	245.1
	D9/24/90	ND	ND	ND	ND	ND		19.54	0.00	245.3
	12/20/90	ND	ND	ND	ND	ND		19.84	0.00	245.0
	03/27/91 06/18/91		**************************************		Albert Line —			18.01	0.00	246.8
Í	09/12/91	ND ND	ND ND	ND ND	ND ND	ND ND	 Negari <del>a 1</del>	20.16 20.57	0.00 0.00	244.60 244.21
į	01/23/92	ND	ND	ND	ND	ND		20.67	0.00	244.1
	04/13/92	0.9	1.3	ND	1775 E E 1	53.		19.40	0,00	245.4
	08/03/92	ND ND	ND	ND	ND	ND	ND	19.81	0.00	245.00
-	10/22/92 01/18/93	ND ND	ND ND	ND ND	0.5 ND	ND ND		19.83 17.04	0.00	245.0° 247.80
		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	NO NO	ND	ND	ND		19.94	0.00	244.9
	09/24/90 12/20/90	ND ND	DN ND	ND ND	ND ND	ND ND		19.77 20.00	0.00	245.0 244.8
	03/27/91							18.23	0.00	246.6
	06/18/91							20.44	0.00	244.4
	09/12/91	ND	ND	ND	ND	ND		20.82	0.00	244.03
	01/23/92 04/13/92	ND ND	ND ND	ND ND	ND ND	ND ND	• » . •	20.92 19.68	0.00	243.9 245.1
	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		2.1	8.9	60		17.36	0.00	247.49
	04/19/93 07/21,22/93	ND ND	ND ND	ND ND	ND ND	ND ND		17.90 17.86	0.00	246.95 246.99
			FAIL 1					1 / KK		Jan Ul

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

WELL ID/		Europe Control		ETHYL-	والها أوسر المالية المربوا		ORGANIC	W 122 12 200	100 V2 100 100	3. 7. 18.38
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(тос)	DATE	(ppb)	(ppb)	(ppb)	(dag)	(dad)	(dqq)	(feet)	(feet)	(feet)
C-11							V-1	1,14		
265.30	03/07/90							22.74	0.00	242.56
203,00	03/09/90	1.2	0.7	ND	1.4	ND		22.14	0.00	242.30
	06/12/90	ND	ND	ND	ND	ND		21.98	0.00	243.32
	09/24/90	ND	ND	ND	ND	ΝĎ		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	ΝĎ		21,57	0.00	243,73
	08/03/92	ND	ND	ND	ND	ND.	ND	22.67	0.00	242.63
	10/22/92 01/18/93	ND ND	ND	ND	ND 2.2	ND ND		23.29 21.36	0,00	242.01 243.94
	04/19/93	ND ND	1.2 ND	ND ND	Z.Z ND	ND ND		19.97	0.00	245.33
	07/21,22/93	ND ND	ND	ND	ND	ND		20.65	0.00	244.65
- 40	01/21,22/00	110			110	140			0.00	211.00
C-12		:		1						
269.66	03/07/90				Serie forto esta 220			14.92	0.00	254.74
	03/09/90	230	140	33	180 73	1,400 720		14.79	0.00	254.87
	06/12/90 09/24/90	190 1.1	71 ND	18 ND	0.6	ND ND	 	15.72	0.00	253.94
	12/20/90	210	26	8.2	23	810	<b></b>	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	0.000 st.0 <b>-</b> -4.	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 07/21,22/93	600 95	99 36	96 18	170 56	2,000 540		13.05 12.84	0.00	256,61 256,82
	01/21,22/93	93	30	10	30	340		12.04	0.00	230.02
C-13										
284.32	03/07/90							11.18	0.00	273.14
[	03/09/90	15	9.7	1	6.2	ND				77.7
	06/12/90 09/24/90	2.6 2.4	ND ND	ND ND	ND ND	ND ND	54. (1 ) 345_4.45	10.70 11.60	0.00	273.62 272.72
	12/20/90	2. <b>7</b> 1.6	ND ND	ND	ND ND	ND ND		10.16	0.00	274.16
	03/27/91	1.0						7.64	0.00	276.68
	06/18/91				1	1 × 19 - 100 × 10		11.32	0.00	273.00
	09/12/91	ND	ND	ND	ND	ND	Marian <del>a (</del>	11.84	0.00	272.48
	01/23/92	<del></del>						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		aliano a la 💳				sti i ta triba <del>i tu</del> t	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/		Den Murius Barris Libra	basedan a lankasiistas	ANYON ROAD, C		i, orien orien		Francisco (m. 1915)	400000000000000000000000000000000000000	12.7
\$350, 17				ETHYL-			ORGANIC			A
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(ТОС)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-14										
270.74	03/07/90							15.18	0.00	255.56
	03/09/90	ND	ND	ND	ND	ND.		000000000 <u>80.00</u> 0	1000000	2001 - NEL 20
	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 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	0000 0000000 000000 000000 00000	100000000000000000000000000000000000000					24.64	0.00	246.10
	04/13/92	ND	ND	ND	ND	ND		12.21	0.00	258.53
	08/03/92 10/22/92	ND	ND	ND	ND	ND	ND	14.64	0.00	256.10
	01/18/93	ND	ND.	AID	ND.	LID.		16.94	0.00	253.80
	04/19/93	ND::::::::::::::::::::::::::::::::::::	ND 	ND	ND	ND	ns tessestations have to	5.10	0.00	265.64
	07/21,22/93	ND	ND.	ND.	ND	ND		6.88 11.16	0.00	263.86
0.45	07/21/22/00	110	, ND	IND	110	140		11.10	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	<del></del>	****** <u>=</u> =	·····	₩ · <del>-</del> -
	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 03/27/91	1.3	1.1	0.6	1.5	300		11.08	0.00	235.07
	06/18/91	4.6 ND	1.1 1.1	ND ND	1 ND	520c 290	**************************************	8,50	0.00	237.65
	06/18/91D	ND	1.3	ND ND	ND.	320		10.83	0.00	235.32
	09/12/91	ND	0.9	ND	ND ND	330c		10.83 11.05	0.00	235.32 235.10
	01/23/92	ND	0.6	ND ND	ND	210	Some than active war we wa	10.80	0.00	235.10
	01/23/92D	1.2	0.8	ND	ND ND	190	######################################	10.80	0.00	235.35
	04/13/92	1.8	ND	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	700 0 10 <del>- 1</del>	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	į									
246.69	03/07/90			,				18.50	0.00	228.19
	03/09/90	ND	ND	ND	ND.	ND		10.00	0.00	220.19
	06/12/90	ND	ND	ND	ND	ND		11.42	0.00	235.27
	09/24/90	ND	ON STATE	ND	ND	ND	Sa Signaliu 🛶	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	79	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	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
	01/18/99	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	עא	ND ND	ND	ND.	ND		10.25	0.00	236.44

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

ELF	LL ID/ VATION (OC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE
RW	274.52	06/12/90 09/24/90	29,000  15,000	1,700 2,000	1,800  560	8,800  3,100	62,000  31,000		18.50 18.49	0.00 0.00	256.02 256.03
		12/20/90 03/27/91 06/18/91 09/12/91a	0.5  	ND  	ND   ++	1.2 	ND	  	 	 	 
		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.

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### ATTACHMENT I

LABORATORY REPORTS

AND

CHAIN-OF-CUSTODY MANIFESTS





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.

Tollen J. Bullen

Eileen F. Bullen

Laboratory Director

#### Table 1

### ANALYTICAL RESULTS

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

GTEL Sample Number		01	02	03	05
Client Identification		TB-LB	RBC14	C14	C13
Date Sampled	Date Sampled			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		Concentra	ation, 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

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%.



### Table 1 (Continued)

### **ANALYTICAL RESULTS**

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

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	on, 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

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%.



### Table 1 (Continued)

#### ANALYTICAL RESULTS

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

GTEL Sample Number		15	17	19	21
Client Identification		C16	<b>C</b> 5	<b>C</b> 7	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					08/01/93
Analyte	Detection Limit, ug/L		Concentration	on, 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

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.

### Table 1 (Continued)

### **ANALYTICAL RESULTS**

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

GTEL Sample Number		23	25	27	29
Client Identification		C12	C1	СЗ	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		Concentrati	on, 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

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%.



### Table 1 (Continued)

### ANALYTICAL RESULTS

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

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							

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%.



## QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery,	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020:							
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 P.O. BOX San Ramon, FAX (415)8	S.A. Inc. 5004 CA 94583	Cone Cone	TON FO FO Wilant Wilant	Proj	y Humb y Addres ject Hum no C	of HV SZ mber C POU Alyau hone (A)	CAT 69 CI 2071 JULY 20 PI	20V/ 20W1 04Z 1/ER 21VE	Alley 28- tect Subspier	9-3 00 R 061 holog 140	667 0 V WEI				Chevron  aboroto  aborato  Samples  Calleatlor	ry Hame ry Relea Collecte	(Phone	BEO SIO IEI IZI-	UT (	1-91 391 1-21	હ્યુંડ		ody-	
Secretion Number	Sample Number	Herber of Combine	17 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mater C =	Type C = Codb C = Composite D = Discrete	Ę		School Freemydool	load (Year or No.)	8152 + 1PH CAS (8000 + 8015)	1PH Gesel (2015)	Oll and Greate (EEZO)	Puryeable Helocanons (2010)	Purpeable Arametics (EC20)	Ŋ	to company oldered	Lange of Al)		中の土				DO NO TB-LB SSIOK 1.	T BILL SAMPLI NACT, F AT T
TB-LB PB-CIÝ	04	1 7	7	J	6	,	#	=)	X	Х														
<u>C14</u> <u>£BC13</u> <u>C13</u>	03 04 05	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						· 		$\frac{\lambda}{\lambda}$	. '			ム				<u></u>	X					
<u>CBCU</u>	06	3								X			3) C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	) 				X					
<u>C10B</u> <u>PDCS</u>	09	7				1290				X				<i>#</i>					X					
C8 RBCIDA	11	3				1120				X		<u> </u>			-				X		C	0.	703	145
CIDA EBC16	13	3				1200				X					i				X			1		
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