



Chevron

December 9, 1994

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd., Bldg. L
P.O. Box 5004
San Ramon, CA 94583-0804

Site Assessment & Remediation Group
Phone (510) 842-9500

Ms. Eva Chu
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

① Investigate sequence (water mound down)
Dublin Blvd. - Add'l Mw may be required
eg. at 'B' of Blvd.

Re: Chevron Station # 9-5542, 7007 San Ramon Valley Blvd., Dublin, CA
Attached groundwater monitoring report (Sierra, 11/3/94)

Dear Ms. Chu:

Attached you will find a report dated November 3, 1994, which was prepared by Chevron's consultant, Sierra Environmental Services (Sierra), to describe groundwater monitoring performed at the subject site on September 22, 1994.

During their September site visit Sierra gauged and sampled all nine site-related wells. The measured direction of groundwater flow was generally toward the east. The groundwater samples were analyzed for the presence of TPHG and BTEX constituents. In addition, samples from well MW-4 were analyzed for oil and grease. Except for well MW-5, all site-related wells contained detectable concentrations of dissolved hydrocarbons.

Prior to sending out their report, Sierra notified me of anomalous detections at well MW-8. Sierra was asked to resample the well and include the confirmatory results in this report. As you can see, results from the resampling of well MW-8 on October 14, 1994 rendered the previous results (9/22/94) invalid. Upon my review of Sierra's report, it was recognized that during the September sampling event well MW-9 was sampled out of sequence. This discovery suggested that the equipment used to purge well MW-9 was not properly decontaminated before sampling well MW-8 and as a result, introduced detectable concentrations of hydrocarbons into an otherwise clean well. Findings of my review also suggest that well MW-7 was similarly contaminated during September. Unfortunately, well MW-7 was not resampled in time for this report. The validity of September's results at MW-7 will be verified by December's sampling results.

Sierra has consistently provided quality groundwater monitoring service to Chevron. The lapse of QA/QC measures during the September site event has been recognized as an isolated occurrence. As such, we are confident that Sierra will resume groundwater monitoring efforts in accordance with regulatory and Chevron standards. If you have any questions or comments, I can be reached at (510) 842-8695.

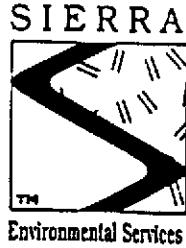
Sincerely,

Brett L. Hunter

Brett L. Hunter
Environmental Engineer
Site Assessment and Remediation

Attachment

cc: Richard Hiett, San Francisco Bay RWQCB, Oakland, CA
Mary Diamond, See's Candy, 3423 S. La Cienega Blvd., Los Angeles, CA 90016-4401
Kenneth Chait, Ardenbrook, Inc., 4725 Thornton Ave., Fremont, CA 94536
See's Real Estate, 210 El Camino Real, S. San Francisco, CA 94080 (w/o attachment)



November 3, 1994

Brett Hunter
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Chevron Service Station #9-5542
7007 San Ramon Road
Dublin, California
SES Project #1-214-04

Dear Mr. Hunter:

This report presents the results of the quarterly ground water sampling at Chevron Service Station #9-5542, located at 7007 San Ramon Road in Dublin, California. Nine wells, MW-1 through MW-9, were sampled (Figure 1).

On September 22, 1994 and October 14, 1994, SES personnel visited the site. Water level measurements were collected in all site wells and all wells were checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not present in any of the site wells. Water level data are shown in Table 1 and ground water elevation contours are included on Figure 1.

The ground water samples were collected on September 22, 1994 and October 14, 1994, in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field water sampling forms for this event are included. All analyses were performed by GTEL of Concord, California. Analytic results for ground water are presented in Table 1. The chain of custody document and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.



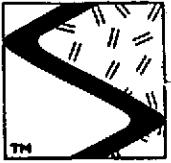
Sincerely,
Sierra Environmental Services

Luda Chernyak
Staff Technician

Chris J. Bramer
Professional Engineer #C48846

LAC/CJB/lmo
21404QM.NO4

Attachments: Figure
Tables
SES Standard Operating Procedure
Field Water Sampling Forms
Chain of Custody Document and Laboratory Analytic Reports



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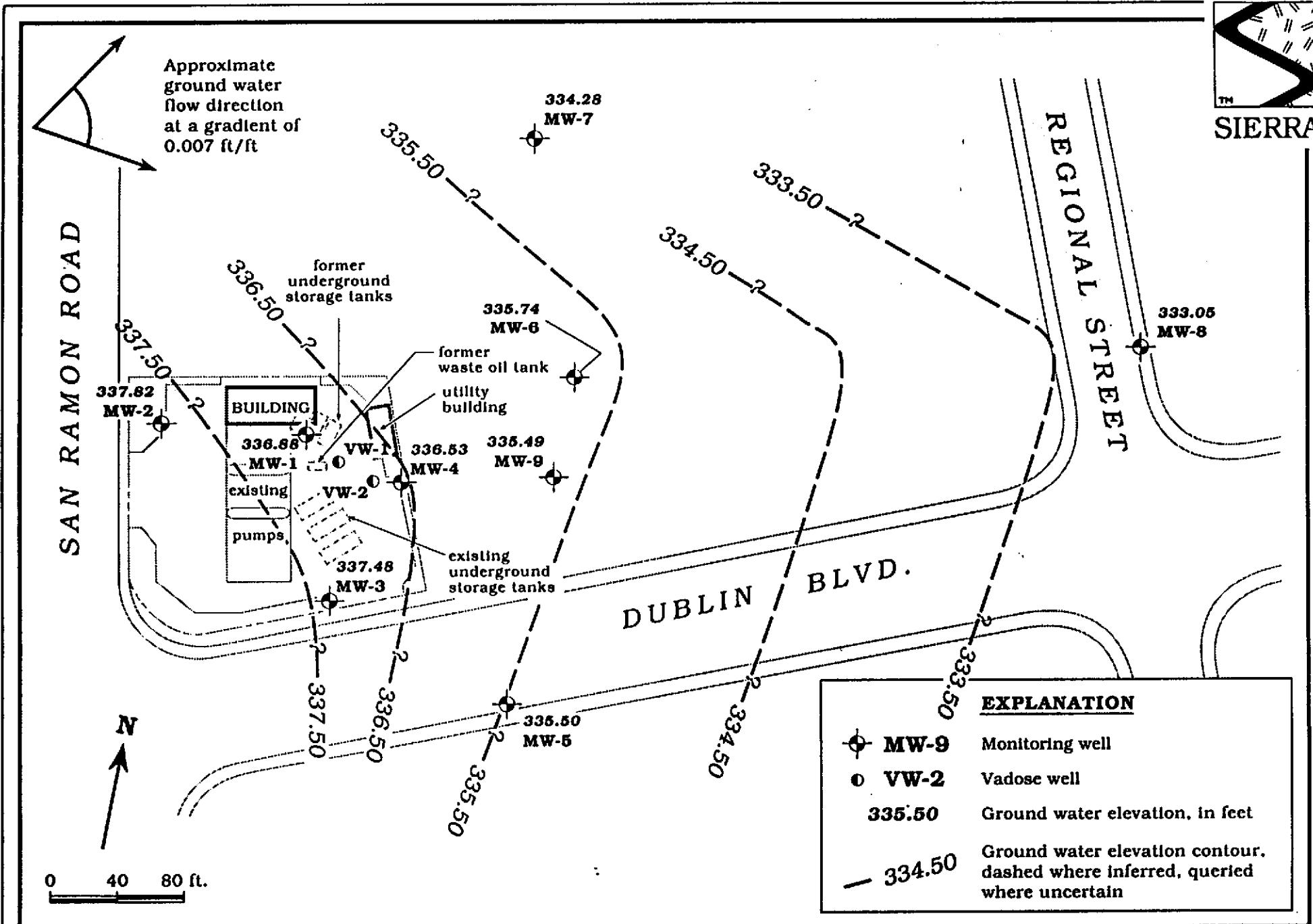
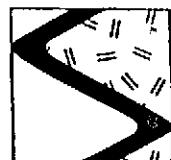


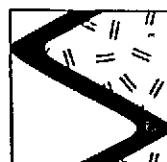
Figure 1. Monitoring Well Location and Ground Water Elevation Contour Map - September 22, 1994 - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California



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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California

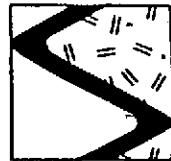
Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	<----- O&G ppb----->				E	X	Other HVOCs			1,2-DCA	EDB	OL
							B	T	E	X								
MW-1/	4/3-4/90	---	---	---	8015/602/504	46,000	---	8,400	7,400	860	5,600	---	---	---	1.04	---	---	
(D)	4/3-4/90	---	---	---	8015/602/504	43,000	---	8,400	7,200	840	5,200	---	---	---	1.1	---	---	
363.98 ¹	5/31/91	25.67	338.31	0	8015/8020/8010	31,000	---	7,400	2,500	630	2,100	ND ^a	2	---	---	---	---	---
	5/31/91	---	---	---	503E	---	<5,000	---	---	---	---	---	---	---	---	---	---	---
	6/21/91	26.23	337.75	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.53	337.45	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020/8010	31,000	---	3,000	2,800	610	3,100	ND ^a	0.6	---	---	---	---	---
	10/4/91	27.90	336.08	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/19/91	28.12	335.86	0	8015/8020/8010	20,000	---	5,200	1,700	560	2,000	ND ^a	3.3	---	---	---	---	---
	3/19/92	24.63	339.35	0	8015/8020/8010	30,000	---	8,500	3,600	590	2,400	ND ^a	2.7	---	---	---	---	---
364.32 ²	6/19/92	26.23	338.09	0	8015/8020	25,000	---	1,100	2,000	520	1,800	---	---	---	---	---	---	---
	9/22/92	27.73	336.59	0	8015/8020	21,000	---	8,000	3,500	670	2,900	---	---	---	---	---	---	---
	12/18/92	26.76	337.56	0	8015/8020	79,000	---	12,000	12,000	1,600	8,500	---	---	---	---	---	---	---
	3/10/93 ^{b,13}	---	---	---	8015/8020	45,000	---	16,000	14,000	1,100	5,500	---	---	---	---	---	---	---
	3/22/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/23/93 ⁴	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/21/94	26.16	338.16	0	8015/8020	5,900	---	1,600	560	140	330	---	---	---	---	---	---	---
	7/6/94	27.20	337.12	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	8/26/94	---	---	---	8015/8020	20,000	---	5,300	4,900	610	2,900	---	---	---	---	---	---	---
	9/22/94	27.44	336.88	0	8015/8020	42,000	---	10,000	8,300	1,000	4,900	---	---	---	---	---	---	---
MW-2/	4/3-4/90	---	---	---	8015/602/504	<50	---	<0.3	<0.3	<0.3	<0.6	---	---	---	<0.02	---	---	
364.19 ¹	5/31/91	25.51	338.68	0	8015/8020/8010	100	---	3.1	4.2	0.7	2.0	ND ^a	<0.5	---	---	---	---	---
	5/31/91	---	---	---	503E	---	<5,000	---	---	---	---	---	---	---	---	---	---	---
	6/21/91	26.13	338.06	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.46	337.73	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020	68	---	1.3	1.6	0.8	3.0	---	---	---	---	---	---	---
	10/4/91	27.79	336.40	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/19/91	28.06	336.13	0	8015/8020	<50	---	0.6	1.2	0.8	2.5	---	---	---	---	---	---	---
	3/19/92	24.46	339.73	0	8015/8020	<50	---	2.5	2.0	1.1	2.4	---	---	---	---	---	---	---
364.64 ²	6/19/92	26.10	338.54	0	8015/8020	<50	---	<0.5	0.6	0.7	1.2	---	---	---	---	---	---	---
	9/22/92	27.60	337.04	0	8015/8020	200	---	16	42	6.1	32	---	---	---	---	---	---	---
	12/18/92	26.32	338.32	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---
	3/22/93	21.39	343.29	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	6/14/93	25.15	339.49	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93	24.52	340.12	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/23/93	25.63	339.01	0	8015/8020	72	---	12	4	6	8	---	---	---	---	---	---	---



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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California
(continued)

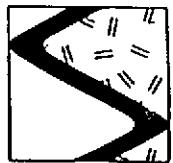
Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <-----	O&G			B	T	E ppb	X	Other HVOCs	1,2-DCA	EDB	OL	
							-----	-----	-----									
MW-2 (con't)	12/22/93	26.34	338.30	0	8015/8020	1,600	---	25	<0.5	3.8	4.8	---	---	---	---	---	---	
	3/21/94	25.83	338.81	0	8015/8020	<50	---	0.7	3.3	<0.5	1.9	---	---	---	---	---	---	
	6/29/94	---	---	---	8015/8020	52	---	0.8	0.9	0.8	1.9	---	---	---	---	---	---	
	7/6/94	26.70	337.94	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/22/94	26.82	337.82	0	8015/8020	<50	---	0.7	<0.5	<0.5	0.6	---	---	---	---	---	---	
MW-3/ 361.92 ¹	4/3-4/90	---	---	---	8015/602/504	2,200	---	36	5	6	17	---	---	<0.02	---	---	---	
	5/31/91	23.20	336.72	0	8015/8020/8010	2,200	---	130	11	31	78	ND ^a	19	---	---	---	---	
	5/31/91	---	---	---	503E	---	<5,000	---	---	---	---	---	---	---	---	---	---	
	6/21/91	24.13	337.79	0	---	---	---	---	---	---	---	---	---	---	---	---	---	
	7/17/91	24.59	337.73	0	---	---	---	---	---	---	---	---	---	---	---	---	---	
	9/20/91	25.98	335.94	0	8015/8020	2,200	---	190	6.0	24	32	---	---	---	---	---	---	
	12/19/91	26.24	335.68	0	8015/8020	640	---	73	27	17	56	---	---	---	---	---	---	
	3/19/92	22.46	339.46	0	8015/8020	4,500	---	1,000	15	91	240	---	---	---	---	---	---	
	6/19/92	24.32	337.94	0	8015/8020	1,100	---	89	3.3	9.1	13	---	---	---	---	---	---	
	9/22/92	25.84	336.42	0	8015/8020	1,400	---	81	51	15	49	---	---	---	---	---	---	
	12/18/92	24.40	337.86	0	8015/8020	1,100	---	2.0	1.1	53	38	---	---	---	---	---	---	
	3/22/93	19.72	342.54	0	8015/8020	1,600	---	96	9	14	91	---	---	---	---	---	---	
	6/14/93	23.52	338.74	0	---	---	---	---	---	---	---	---	---	---	---	---	---	
	7/25/93	23.21	339.05	0	8015/8020	1,200	---	19	6	2	5	---	---	---	---	---	---	
	9/23/93	24.02	338.24	0	8015/8020	1,500	---	35	<0.5	5	13	---	---	---	---	---	---	
	12/22/93	24.67	337.59	0	8015/8020	1,500	---	26	<0.5	3.9	4.9	---	---	---	---	---	---	
	3/21/94	24.05	338.21	0	8015/8020	1,400	---	22	14	1.1	5.3	---	---	---	---	---	---	
	6/29/94	---	---	---	8015/8020	1,700	---	90	6.1	20	81	---	---	---	---	---	---	
	7/6/94	25.08	337.18	0	---	---	---	---	---	---	---	---	---	---	---	---	---	
	9/22/94	24.78	337.48	0	8015/8020	2,600	---	72	7.6	110	370	---	---	---	---	---	---	
MW-4/ 362.70 ¹	4/3-4/90	---	---	---	8015/413.1/602/504	43,000	18,000	4,000	5,000	790	5,500	---	---	<0.02	---	---	---	
	4/3-4/90	---	---	---	624**	---	---	6,000	8,200	1,500	---	---	---	---	---	---	---	
	5/31/91	24.67	338.03	0	8015/8020/8010	34,000	---	2,900	2,900	680	3,300	ND ^a	<0.5	---	---	---	---	
	5/31/91	---	---	---	503E	<5,000	---	---	---	---	---	---	---	---	---	---	---	
	6/21/91	25.31	337.39	0	---	---	---	---	---	---	---	---	---	---	---	---	---	
	7/17/91	25.73	336.97	0	---	---	---	---	---	---	---	---	---	---	---	---	---	
	9/20/91	---	---	---	8015/8020/8010	37,000	---	4,000	3,200	580	3,000	ND ^a	9.2	---	---	---	---	
	10/4/91	27.08	335.62	0	---	---	---	---	---	---	---	---	---	---	---	---	---	
	12/19/91	27.24	335.46	0	8015/8020/8010	41,000	---	5,500	4,900	1,000	4,400	ND ^a	17	---	---	---	---	
	3/19/92	23.66	339.04	0	8015/8020/8010	21,000	---	3,800	2,900	500	3,200	ND ^a	15	---	---	---	---	



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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California
(continued)

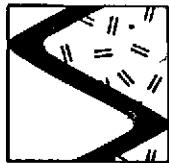
Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	O&G	B	T	E	X	Other HVOCS	1,2-DCA	EDB	OL
ppb															
MW-4 [cont]															
363.07^a															
6/19/92	25.33	337.74	0	8015/5520/8020	27,000	<5,000	1,800	1,600	570	1,900	---	---	---	---	
9/22/92	26.90	336.17	0	8015/5520/8020	20,000	<5,000	4,100	2,700	670	3,200	---	---	---	---	
12/18/92	25.62	337.45	0	8015/5520/8020	15,000	<5,000	2,200	2,000	370	1,600	---	---	---	---	
3/22/93	20.80	342.27	0	8015/5520/8020	41,000	5,000	3,900	5,100	840	4,500	---	---	---	---	
6/14/93	25.73	337.34	0	---	---	---	---	---	---	---	---	---	---	---	
7/25/93	24.02	339.05	0	8015/5520/8020	94,000	<5,000	18,000	30,000	2,400	14,000	---	---	---	---	
9/23/93	25.00	338.07	0	8015/5520/8020	23,000	<5,000	4,700	2,000	900	4,600	---	---	---	---	
12/22/93	25.72	337.35	0	8015/5520/8020	18,000	<5,000	2,800	1,300	420	1,700	---	---	---	---	
3/21/94	25.09	337.98	0	8015/413.1/8020	21,000	<5,000	2,800	1,700	540	1,900	---	---	---	---	
6/29/94	---	---	---	8015/413.1/8020	25,000	<5,000	4,000	2,600	960	3,300	---	---	---	---	
7/6/94	26.11	336.96	0	---	---	---	---	---	---	---	---	---	---	---	
9/22/94	26.54	336.53	0	---	45,000	<5,000	11,000	8,800	1,000	5,100	---	---	---	---	
MW-5/															
359.95^b															
6/21/91	23.17	336.78	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
6/21/91	---	---	---	8010/LUFT	---	---	---	---	---	---	ND ^c	<0.5	---	<4,000	
7/17/91	23.68	336.27	0	---	---	---	---	---	---	---	---	---	---	---	
9/20/91	---	---	---	8015/8020	170 ¹⁰	---	0.8	0.9	<0.5	1.5	---	---	---	---	
10/4/91	25.20	334.75	0	---	---	---	---	---	---	---	---	---	---	---	
12/19/91	25.20	334.75	0	8015/8020	<50	---	0.7	0.7	<0.5	1.4	---	---	---	---	
3/19/92	21.21	338.74	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
360.28^a															
6/19/92	23.42	336.86	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
9/22/92	24.97	335.31	0	8015/8020	150	---	13	34	5.0	26	---	---	---	---	
12/18/92	23.52	336.76	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
3/10/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
3/22/93	19.10	341.18	0	---	---	---	---	---	---	---	---	---	---	---	
6/14/93	22.71	337.57	0	---	---	---	---	---	---	---	---	---	---	---	
7/25/93	21.99	338.29	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
9/23/93	23.48	336.80	0	8015/8020	<50	---	3	1	1	2	---	---	---	---	
12/22/93	23.98	336.30	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
3/21/94	23.18	337.10	0	8015/8020	<50	---	2.4	1.4	<0.5	2	---	---	---	---	
6/29/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	1.0	---	---	---	---	
7/6/94	24.41	335.87	0	---	---	---	---	---	---	---	---	---	---	---	
9/22/94	24.78	335.50	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	



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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California
(continued)

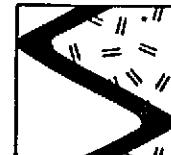
Well ID/ TOC (#)	Date	DTW (ft)	GWE (msl)	Product Thickness*	Analytic Method	TPPH(G) <----- ppb----->	O&G	B	T	E	X	Other			
												HVOCS	1,2-DCA	EDB	OL
MW-6/															
360.22 ¹	6/21/91	23.55	336.67	0	8015/8020	3,700	---	50	2.6	150	340	---	---	---	---
	6/21/91	---	---	---	8010/LUFT	---	---	---	---	---	---	ND ^b	<0.5	---	<4,000
	7/17/91	24.00	336.22	0	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020	3,200	---	28	<0.5	140	100	---	---	---	---
	10/4/91	25.29	334.93	0	---	---	---	---	---	---	---	---	---	---	---
	12/19/91	25.34	334.88	0	8015/8020	380	---	2.7	4.0	15	10	---	---	---	---
	3/19/92	22.05	338.17	0	8015/8020	3,400	---	57	4.5	330	360	---	---	---	---
360.58 ³	6/19/92	23.52	337.06	0	8015/8020	980	---	11	4.2	57	38	---	---	---	---
	9/22/92	25.60	334.98	0	8015/8020	1,100	---	22	41	77	58	---	---	---	---
	12/18/92	24.18	336.40	0	8015/8020	1,900	---	3.2	1.3	58	47	---	---	---	---
	3/10/93	---	---	---	8015/8020	1,400	---	30	9	8	22	---	---	---	---
	3/22/93	19.36	341.22	0	---	---	---	---	---	---	---	---	---	---	---
	6/14/93	23.48	337.10	0	---	---	---	---	---	---	---	---	---	---	---
	7/25/93	22.30	338.28	0	8015/8020	83 ^{II}	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/23/93	23.20	337.38	0	8015/8020	200	---	6	2	3	3	---	---	---	---
	12/22/93	23.91	336.67	0	8015/8020	130	---	<0.5	1.8	1.2	1.5	---	---	---	---
	3/21/94	23.27	337.31	0	8015/8020	290	---	3	10	1.6	4.7	---	---	---	---
	6/29/94	---	---	---	8015/8020	300	---	0.6	1.2	2.4	4.6	---	---	---	---
	7/6/94	24.27	336.31	0	---	---	---	---	---	---	---	---	---	---	---
	9/22/94	24.84	335.74	0	8015/8020	2,300	---	58	3.6	100	290	---	---	---	---
MW-7/															
360.63 ¹	6/21/91	23.45	337.18	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/21/91	---	---	---	8010/LUFT	---	---	---	---	---	---	ND ^b	<0.5	---	<4,000
	7/17/91	23.90	336.73	0	---	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020	69	---	4.4	3.3	1.2	3.9	---	---	---	---
	10/4/91	25.03	335.60	0	---	---	---	---	---	---	---	---	---	---	---
	12/19/91	25.10	335.53	0	8015/8020	<50	---	0.9	2.8	1.7	5.9	---	---	---	---
360.99 ³	3/19/92	22.74	337.89	0	8015/8020	<50	---	1.1	0.6	0.9	2.5	---	---	---	---
	6/19/92 ³	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/22/92 ³	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/18/92 ³	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/22/93 ⁵	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93 ⁵	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93 ⁵	---	---	---	---	---	---	---	---	---	---	---	---	---	---
361.68 ⁴	12/23/93	23.67	338.01	0	8015/8020	<50	---	0.9	0.5	<0.5	<0.5	---	---	---	---



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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <----- ----->	O&G	B	T	E ppb----->	X	Other HVOCs			1,2-DCA	EDB	OL ----->
												ppb					
MW-7 (cont)	3/21/94	24.13	337.55	0	8015/8020	<50	---	0.5	1.1	<0.5	1.4	---	---	---	---	---	---
	6/29/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	7/6/94	26.45	335.23	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/22/94	27.40	334.28	0	8015/8020	11,000 <i>digging backfill</i>	1,900	230	310	970	---	---	---	---	---	---	---
MW-8/ 354.89 ²	12/12/91	22.54	---	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	6/19/92	20.47	334.42	0	8015/8020	<50	---	1.2	1.4	0.5	2.9	---	---	---	---	---	---
	9/22/92	29.80	325.09	0	8015/8020	180	---	17	42	6.0	31	---	---	---	---	---	---
	12/18/92	21.18	333.71	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/10/93	---	---	---	8015/8020	<50	---	0.8	2	<0.5	2	---	---	---	---	---	---
	3/22/93	16.91	337.98	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93	24.30	330.59	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93	23.77	331.12	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/23/93	20.40	334.49	0	8015/8020	<50	---	1	0.9	0.7	1	---	---	---	---	---	---
	12/22/93	20.92	333.97	0	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/21/94	20.19	334.70	0	8015/8020	<50	---	0.9	1.5	<0.5	2	---	---	---	---	---	---
	6/29/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	0.8	---	---	---	---	---	---
	7/6/94	21.05	333.84	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/22/94	21.84	333.05	0	8015/8020	9,600 <i>fail</i>	1,800	160	260	840	---	---	---	---	---	---	---
	10/14/94	21.84	333.05	0	8015/8020	<50 <i>fail</i>	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---
MW-9/ 361.23 ⁷	7/6/94	25.15	336.08	0	---	---	---	---	---	---	---	---	---	---	---	---	---
	8/26/94	---	---	---	8015/8020	12,000	---	1,700	240	410	1,400	---	---	---	---	---	---
	9/22/94	25.74	335.49	0	8015/8020	10,000	---	1,900	290	320	1,200	---	---	---	---	---	---
Trip Blank																	
MW-AA	5/31/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	6/21/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/20/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	12/19/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
TB-LB	6/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	9/22/92	---	---	---	8015/8020	92 ¹³	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	12/18/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
	3/10/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---



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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G) <----- ppb----->	O&G	B	T	E	X	Other HVOCS	1,2-DCA	EDB	OL
TB-LB	3/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
(cont)	7/25/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/23/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/21/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/29/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	7/1/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	7/6/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/22/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
Baller Blank															
MW-BB	5/31/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/21/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/20/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/19/91	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/19/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/22/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	0.8	---	---	---
	12/21/92	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/10/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	0.6	---	---	---
	7/25/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/23/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/22/93	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/21/94	---	---	---	8015/8020	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---

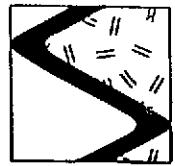


Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-5542, 7007 San Ramon Road, Dublin, California
(continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Ground water elevation
msl = Measurements referenced relative to mean sea level
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
O&G = Oil and Grease
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
HVOCs = Halogenated Volatile Organic Compounds
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene dibromide
OL = Organic lead
ppb = Parts per billion
D = Duplicate sample
ND = Not detected (see notes)
--- = Not available/not applicable

ANALYTIC METHODS:

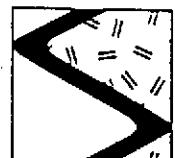
8015 = EPA Method 8015/5030 for TPPH(G)
602 = EPA Method 602 for BTEX
504 = EPA Method 504 for EDB
8020 = EPA Method 8020 for BTEX
8010 = EPA Method 8010 for HVOCs
503E = Standards Methods Method 503E for O&G

ANALYTIC METHODS: (continued)

413.1 = EPA Method 413.1 for total O&G
624 = EPA Method 624 for BTEX and VOCs
5520 = Standard Methods Method 5520 for O&G
LUFT = DHS LUFT Manual Method for OL

NOTES:

- Analytic data was compiled from a draft report prepared by Chempro, undated.
- ¹ Product thickness was measured with an MMC flexi-dip interface probe.
 - ² Top of casing elevations for monitoring wells MW-1 through MW-7 were surveyed by Ron Miller, Professional Engineer #15816 on June 26, 1991.
 - ³ Top of casing elevations for monitoring wells MW-1 through MW-8 were surveyed by Kier & Wright of Pleasanton, California on December 12, 1991. Survey data received by SES on April 30, 1992.
 - ⁴ Well could not be located on this date due to surface conditions from recent discing.
 - ⁵ Monitoring well part of remediation system.
 - ⁶ Monitoring well not located since March 1992 sampling event.
 - ⁷ Top of casing elevation surveyed by Ron Miller, PE #15816, on January 13, 1994.
 - ⁸ Monitoring well surveyed by Ron Miller, PE #15816, on July 5, 1994.
 - ⁹ Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.
 - ¹⁰ Chloroform and bromodichloromethane were detected at 1.3 and 0.9 ppb, respectively. Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.
 - ¹¹ A non-standard gasoline pattern was observed in the chromatogram.
 - ¹² Uncategorized compound not included in gasoline total.
 - ¹³ Gasoline range concentration reported. The chromatogram shows only a single peak in the gasoline range.
 - ¹⁴ Analytic results provided by Chevron Project Manager.



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SES STANDARD OPERATING PROCEDURE GROUND WATER SAMPLING

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed $\pm 0.5^{\circ}\text{F}$, 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with Chevron designated disposable bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at 4°C) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank accompanies each sampling set, or 5% trip blanks are included for sets of greater than 20 samples. The trip blank is analyzed for some or all of the same compounds as the ground water samples.



WATER SAMPLING DATA

Job Name San. Ramon Rd Job Number 1-214-04
 Well Number MW-1 Date 09/22/94 Sampler L.C.
 Sample Point Location/Description S/E corner of the Building Well Diameter 4"
 Depth to Water (static) 27.44 Well Depth (sounded) 52.10 Well Depth (spec.)
 Initial height of water in casing 24.66 Volume 16.10 gallons
 Volume to be purged 4.8 gallons
 Purged With Sub Pump Sampled With Drip. Barter
 Pumped or Barred Dry? Yes No Time After _____ gallons
 Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
 $r = \text{well radius in ft}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in gal.} = \pi r^2 h$
 7.48 gal/l
 $V_c = \text{casing} = 0.163 \text{ gal/l}$
 $V_s = \text{soil} = 0.367 \text{ gal/l}$
 $V_b = \text{barrel} = 0.653 \text{ gal/l}$
 $V_d = \text{drum} = 0.826 \text{ gal/l}$
 $V_g = \text{gasoline} = 1.47 \text{ gal/l}$
 $V_w = \text{water} = 2.61 \text{ gal/l}$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance Measurement	x umhos/cm
Start	Stop						
14.30	14.35	10	10	7.9	66	120	
	14.45	20	30	7.5	67	121	
	14.55	20	40	7.5	67	122	

SAMPLES COLLECTED Time 15.00

Water color Very clear

Description of sediments or material in sample:

Additional Comments:

Total volume purged (gal.)

Odor Slight Hydrocarbon odor

none

Sample ID	# of Cont.	Container Type	Filled (size, v)	Preservative (D/P/I)	Refrig. (Y/N)	Lab (Ind)	Analysis Requested
MW-1	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/Teflon lined cap (specify size);
 3 = Clear glass/Teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other : G = Other

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WATER SAMPLING DATA

Job Name San Ramon Rd
Well Number MW-2Sample Point Location/Description Kest from the buildingDepth to Water (static) 26.82Initial height of water in casing 11.82

Volume to be purged

Purged With Sub PumpPumped or Bailed Dry? Yes No

Water level at sampling _____

Job Number 1-214-04Date 09/22/94Well Depth (sounded) 38.84Volume 7.92 gallons5.8 gallonsSampled With Dipp. BarterTime After gallons

Percent Recovery _____

Sampler L.C.

Well Diameter _____

Well Depth (spec.) _____

Formulas/Conversions

 $r = \text{well radius in ft}$ $h = \text{ht of water col. in ft}$ $\text{vol. in gal.} = \pi r^2 h$ 7.48 gal/l $V_1 \text{ casing} = 0.163 \text{ gal/l}$ $V_2 \text{ casing} = 0.367 \text{ gal/l}$ $V_3 \text{ casing} = 0.653 \text{ gal/l}$ $V_4 \text{ casing} = 0.826 \text{ gal/l}$ $V_5 \text{ casing} = 1.47 \text{ gal/l}$ $V_6 \text{ casing} = 2.61 \text{ gal/l}$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance Measurement	x umhos/cm
Start	Stop						
12.40	12.42	2	2	7.8	64	970	
	12.44	.2	4	7.6	65	980	
	12.46	2	6	7.4	65	980	

SAMPLES COLLECTED Time 12.50Water color Cloudy

Description of sediments or material in sample:

Additional Comments: Light Brown, Fine SedimentsTotal volume purged (gal.) 6Odor None

Sample ID	# of Cont.	Container Type	Filled (size, v)	Preservative (DPC)	Refrig. (Y/N)	Lab (ID#)	Analyses Requested
MW-2	3	1	—	HCL	1	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other; 6 = Other



WATER SAMPLING DATA

Job Name San Ramon Rd

Well Number MW-3

Sample Point Location/Description

Depth to Water (static) 24.78

Initial height of water in casing 10.22

Volume to be purged

Purged With Sub Pump

Pumped or Bailed Dry? Yes No

Water level at sampling _____

Job Number 1-214-04

Date 09/22/94

S/W from MW-4

Well Depth (sounded) 35.00

Volume 1.66 gallons

4.99 gallons

Sampled With Dipp. Barter

Time After gallons

Percent Recovery _____

Sampler L.C.

Well Diameter _____

Well Depth (spec.) _____

Formulas/Conversions

r = well radius in ft

h = ht of water col. in ft

vol. in cyl. = $\pi r^2 h$

7.48 gal/ft³

V_1 casing = 0.163 gal/ft

V_2 casing = 0.367 gal/ft

V_3 casing = 0.653 gal/ft

V_4 casing = 0.826 gal/ft

V_5 casing = 1.47 gal/ft

V_6 casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
12.30	13.32	2	2	7.3	65	120	
	13.34	2	4	7.2	66	110	
	13.36	1	5	7.2	66	110	

SAMPLES COLLECTED TIME 13.50.

Water color Cloudy

Description of sediments or material in sample:

Additional Comments: _____

Total volume purged (gal.) 5

Odor None

Light Brown sediments

Sample ID	# of Cont.	Container Type	Filled (size, v)	Preservative (D/P/C)	Refrig. (Y/N)	Lab (In/Off)	Analyses Requested
MW-3	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other; 6 = Other



WATER SAMPLING DATA

Job Name San Ramon Rd
 Well Number MW-4
 Sample Point Location/Description N/E from MW-3
 Depth to Water (static) 26.54
 Initial height of water in casing 9.22
 Volume to be purged _____
 Purged With Sub Pump
 Pumped or Bailed Dry? Yes No
 Water level at sampling _____

Job Number 1-214-04

Date 09/22/94

Well Depth (sounded) 35.76

Volume 1.5 gallons

4.5 gallons

Sampled With Dipp. Barter

Time After gallons

Percent Recovery _____

Sampler L.C.

Well Diameter _____

Well Depth (spec.) _____

Formulas/Conversions

$$r = \text{well radius in ft}$$

$$h = \text{ht of water col. in ft}$$

$$\text{vol. in cyl.} = \pi r^2 h$$

$$7.48 \text{ gal/l}^3$$

$$V_1 \text{ casting} = 0.163 \text{ gal/l}$$

$$V_2 \text{ casting} = 0.367 \text{ gal/l}$$

$$V_3 \text{ casting} = 0.653 \text{ gal/l}$$

$$V_4 \text{ casting} = 0.856 \text{ gal/l}$$

$$V_5 \text{ casting} = 1.47 \text{ gal/l}$$

$$V_6 \text{ casting} = 2.61 \text{ gal/l}$$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance Measurement	x umhos/cm
Start	Stop						
15.20	15.22	1	1	6.8	66	110	
	15.24	2	3	6.7	65	110	
	15.26	2	5	6.6	65	120	

SAMPLES COLLECTED Time 15.40

Water color clear

Description of sediments or material in sample: _____

Additional Comments: _____

Total volume purged (gal.) 5

Odor slight odor

naul

Sample ID	# of Cont.	Container Type	Filled (size, v)	Preservative (DPC)	Refrig. (Y/N)	Lab (URL)	Analyses Requested
MW-4	3	1	—	HCL	Y	GTEL	GIBTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/Teflon lined cap (specify size);
 3 = Clear glass/Teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other : G = Other

(9)



WATER SAMPLING DATA

Job Name San Ramon Rd

Well Number MW-5

Sample Point Location/Description On Dublin Blvd

Depth to Water (static) 24.78

Initial height of water in casing 11.09

Volume to be purged

Purged With Sub Pump

Pumped or Bailed Dry? Yes No

Water level at sampling _____

Job Number 1-214-04

Date 09/22/94

Well Depth (sounded) 35.84

Volume 1.8 gallons

5.42 gallons

Sampled With Dip. Barter

Time After gallons

Percent Recovery _____

Sampler 1.C

Well Diameter 2"

Well Depth (spec.) _____

Formulas/Conversions

$r = \text{well radius in ft}$

$h = \text{ht of water col. in ft}$

$\text{vol. in cyl.} = \pi r^2 h$

7.48 gal/in^3

$V_1 = \text{casing} = 0.163 \text{ gal/in}^3$

$V_2 = \text{casing} = 0.267 \text{ gal/in}^3$

$V_3 = \text{casing} = 0.653 \text{ gal/in}^3$

$V_4 = \text{casing} = 0.826 \text{ gal/in}^3$

$V_5 = \text{casing} = 1.47 \text{ gal/in}^3$

$V_6 = \text{casing} = 2.61 \text{ gal/in}^3$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance Measurement	x umhos/cm
Start	Stop						
13.00	13.02	2	2	7.5	65	950	
	13.04	2	4	7.6	64	960	
	13.06	2	6	7.6	64	950	

SAMPLES COLLECTED Time 13.20

Water color Cloudy

Description of sediments or material in sample: FINE

Additional Comments: Pediments

Total volume purged (gal.) _____

Odor None

FINE

Pediments

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (D/P/C)	Refrig. (Y/N)	Lab (In/Off)	Analysis Requested
MW-5	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/Teflon lined cap (specify size); 3 = Clear glass/Teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other; 6 = Other.



WATER SAMPLING DATA

Job Name San Joaquin Rd

Well Number MW-6

Sample Point Location/Description N/E front yard

Depth to Water (static) 24.84

Initial height of water in casing 9.16

Volume to be purged

Purged With Sub Pump

Pumped or Bailed Dry? Yes No

Water level at sampling _____

Job Number 1-214-04

Date 09/22/94

Well Depth (sounded) 34.00

Volume 1.49 gallons

4.47 gallons

Sampled With Dipp. Barter

Time After gallons

Percent Recovery _____

Sampler L.C.

Well Diameter _____

Well Depth (spec.) _____

Formulas/Conversions

r = well radius in ft

h = ht of water col. in ft

vol. in cyl. = $\pi r^2 h$

7.43 gal/ft³

V_c casting = 0.163 gal/ft

V_c casting = 0.367 gal/ft

V_c casting = 0.653 gal/ft

V_c casting = 0.826 gal/ft

V_c casting = 1.47 gal/ft

V_c casting = 2.61 gal/ft

CHEMICAL DATA

Purge Time Start	Stop	Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
						Measurement	x umhos/cm
14.10	14.02	1	1	7.3	65	120	
	14.04	1	2	7.2	66	130	
	14.06	2	4	7.1	66	140	

SAMPLES COLLECTED Time 14.20

Water color Cloudy

Description of sediments or material in sample:

Additional Comments:

Total volume purged (gal.) 41

Odor None

Fine gray sediment

Sample ID	# of Cont.	Container Type	Filled (size, u)	Preservative (D/P/C)	Refrig. (Y/N)	Lab (Ind)	Analysis Requested
MW-6	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____ G = Other _____ (7)

SIERRA

WATER SAMPLING DATA

Job Name Sunn. Ranch Rd.Well Number MW-7Sample Point Location/Description North from MW-6Depth to Water (static) 27.40Initial height of water in casing 8.94

Volume to be purged

Purged With Sub PumpPumped or Bailed Dry? Yes No

Water level at sampling _____

Job Number 1-214-04Date 09/22/94Well Depth (sounder) 36.34Volume 1.95 gallons4.37 gallonsSampled With Disp. BarterTime After gallons

Percent Recovery _____

Sampler I.C

Well Diameter _____

Well Depth (spdt.) _____

Formulas/Conversions

 $r = \text{well radius in ft}$ $h = \text{ht of water col. in ft}$ $\text{vol. in cyl.} = \pi r^2 h$ 7.48 gal/ft^3 $V_1 = \text{casing} = 0.163 \text{ gal/ft}$ $V_2 = \text{casing} = 0.367 \text{ gal/ft}$ $V_3 = \text{casing} = 0.653 \text{ gal/ft}$ $V_4 = \text{casing} = 0.876 \text{ gal/ft}$ $V_5 = \text{casing} = 1.47 \text{ gal/ft}$ $V_6 = \text{casing} = 2.61 \text{ gal/ft}$

CHEMICAL DATA

Purge Time Start	Purge Time Stop	Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
						Measurement	x umhos/cm
11.40	11.42	2	2	7.0	65	140	
	11.44	.2	4	6.8	66	130	
	11.46	2	6	6.7	66	120	

SAMPLES COLLECTED Time 12.00Water color Cloudy

Description of sediments or material in sample: _____

Additional Comments: _____

Total volume purged (gal.) 6Odor NoneNone

Sample ID	# of Cont.	Container Type	Filled (size, y)	Preservative (D/P)	Refrig. (Y/N)	Lab (Ind)	Analysis Requested
MW-7	3	1	—	HCL	Y	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other; 6 = Other

(2)



WATER SAMPLING DATA

Job Name Sun. Ramon Rd
 Well Number MW-8
 Sample Point Location/Description On Laramie street
 Depth to Water (static) 21.84
 Initial height of water in casing 11.92
 Volume to be purged
 Purged With Sub Pump
 Pumped or Bailed Dry? Yes No
 Water level at sampling _____

Job Number 1-214-04
 Date 09/22/94
 Well Depth (sounded) 33.76
 Volume 1.94 gallons
5.82 gallons
 Sampled With Dipp. Barter
 Time After _____ gallons
 Percent Recovery _____

Sampler L.C.
 Well Diameter 2"
 Well Depth (spec.) _____

Formulas/Conversions
 $r = \text{well radius in ft}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in cyl.} = \pi r^2 h$
 7.45 gal/ft^3
 $V_c \text{ casing} = 0.163 \text{ gal/ft}$
 $V_c \text{ casing} = 0.367 \text{ gal/ft}$
 $V_c \text{ casing} = 0.653 \text{ gal/ft}$
 $V_c \text{ casing} = 0.826 \text{ gal/ft}$
 $V_c \text{ casing} = 1.47 \text{ gal/ft}$
 $V_c \text{ casing} = 2.61 \text{ gal/ft}$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	Measurement x units/cm
Start	Stop						
12.10	12.15	2	2	6.8	66	120	
	12.17	.2	4	6.8	65	130	
	12.20	2	6	6.9	65	130	

SAMPLES COLLECTED Time 12.30

Water color Cloudy
 Description of sediments or material in sample:
 Additional Comments: _____

Total volume purged (gal.) _____

Odor None

None

Sample ID	# of Cont.	Container Type	Filled (size, v)	Preservative (D/P/C)	Refrig. (Y/N)	Lab (Ind)	Analysts Requested
MW-8	3	1	—	HCl	/	GTEL	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____ ; G = Other _____

(3)



WATER SAMPLING DATA

Job Name 7007 San Ramon Rd.Well Number MW-8Sample Point Location/Description EAST OF GRAND AVEDepth to Water (static) 21.89Initial height of water in casing 9.61

Volume to be purged

Purged With Disp. BAILEYPumped or Bailed Dry? Yes No

Water level at sampling _____

Job Number 1-214-04Date 10.14.94Well Depth (sounded) 31.5Volume 1.56 gallons5 gallonsSampled With Disp. BAILEY

Time _____ After _____ gallons

Percent Recovery _____

Sampler D.B.Well Diameter 2"

Well Depth (spec.) _____

Formulas/Conversions $r = \text{well radius in ft}$ $h = \text{ht of water col. in ft}$ $\text{vol. in cyl.} = \pi r^2 h$ 7.48 gal/ft^3 $V_{1/2} \text{ casing} = 0.163 \text{ gal/ft}$ $V_{3/4} \text{ casing} = 0.367 \text{ gal/ft}$ $V_{5/8} \text{ casing} = 0.653 \text{ gal/ft}$ $V_{7/8} \text{ casing} = 0.826 \text{ gal/ft}$ $V_1 \text{ casing} = 1.47 \text{ gal/ft}$ $V_{1 1/2} \text{ casing} = 2.61 \text{ gal/ft}$ **CHEMICAL DATA**

Purge Time Start	Purge Time Stop	Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
						Measurement	x umhos/cm
9:29							
9:34	9:34	2	2	6.68	60.5	1.23	x 1,000
9:38	9:38	2	4	6.72	67.1	1.24	
9:41	9:41	1	5	6.74	67.4	1.24	↓

SAMPLES COLLECTED Time 9:45Total volume purged (gal.) 5Water color BrownOdor NONE

Description of sediments or material in sample:

LIGHT SEDIMENTAdditional Comments: REPLACED WELL CAP.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
MW-8	3	1	—	HCl	YES		

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____; 6 = Other _____



WATER SAMPLING DATA

Job Name San. Razon Rd Job Number 1-214-04
 Well Number MW-9 Date 09/22/94
 Sample Point Location/Description S/x from mw-6
 Depth to Water (static) 25.74 Well Depth (sounded) 33.20
 Initial height of water in casing 7.46 Volume 1.21 gallons
 Volume to be purged 3.6 gallons
 Purged With Sub-Pump Sampled With Dipp. Barter
 Pumped or Bailed Dry? Yes No Time After gallons
 Water level at sampling _____ Percent Recovery _____

Sampler L.C.
 Well Diameter 2"
 Well Depth (spec.) _____

Formulas/Conversions
 $r = \text{well radius } \frac{\text{in}}{2}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in cyl.} = \pi r^2 h$
 7.45 gal/ft^3
 $V_1: \text{casing} = 0.163 \text{ gal/ft}$
 $V_2: \text{casing} = 0.367 \text{ gal/ft}$
 $V_3: \text{casing} = 0.653 \text{ gal/ft}$
 $V_4: \text{casing} = 0.826 \text{ gal/ft}$
 $V_5: \text{casing} = 1.47 \text{ gal/ft}$
 $V_6: \text{casing} = 2.61 \text{ gal/ft}$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	Measurement x minutes/CD
Start	Stop						
10.40	10.42	1	1	7.5	66	150	
	10.44	1	2	7.9	67	150	
	10.46	2	4	7.2	68	151	

SAMPLES COLLECTED Time 11.00

Water color cloudy Total volume purged (gal.) 4
 Odor None
 Description of sediments or material in sample: Fine gray sediments
 Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filled (size, v)	Preservative (type)	Refrig. (Y/N)	Lab (In/Off)	Analyses Requested
MW-9	3	1	—	HCL	Y	GTEL	G/ATR/EX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size);
 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size);
 5 = Other _____ 6 = Other _____

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

Chain-of-Custody-Record

Chevron U.S.A. Inc. P.O. BOX 5004 San Ramon, CA 94583 FAX (415)842-9591	Chevron Facility Number	9-5542	Chevron Contact (Name)	BRETT HUNTER
	Facility Address	7007 San Ramon Rd, Dublin	(Phone)	842-8695
	Consultant Project Number	1-214-06	Laboratory Name	GTEC
	Consultant Name	Sierra Environmental Services	Laboratory Release Number	2356620
	Address	P.O Box 2546, Martinez, CA 94553	Samples Collected by (Name)	J. Cheruyed
	Project Contact (Name)	Ed MOTA Corp	Collection Date	09/22/94
(Phone)	510-370-1280 (Fax Number)	Signature	J. Cheruyed	

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Dissolve	Time	Sample Preservation	Iod (Y or N)	Analyses To Be Performed										Note: Do Not Bill TB-LB Samples (3)	Remarks
								STEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8520)	Petroleum Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Nitrate Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
78/LB 801	2	W	G	XCL	Y	V													
MLW-A 02	3			15.00		Y													
MLW-2 03				12.50															
MLW-3 04				13.50															
MLW-4 05				15.40															
MLW-5 06				13.20															
MLW-6 07				14.20															
MLW-7 08				12.00															
MLW-8 09				12.30															
MLW-9 10	↓	↓	↓	11.00	↓	↓	↓												

Inlinquished By (Signature)	Organization	Date/Time 13:15	Received By (Signature)	Organization	Date/Time 13:15	Turn Around Time (Circle Choice)
J. Cheruyed	SES	9-23-94	John Weber	GTEC	9-23-94	24 Hrs.
Inlinquished By (Signature)	Organization	Date/Time 18:00	Received By (Signature)	Organization	Date/Time	48 Hrs.
John Weber	GTEC	9-23-94				6 Days
Inlinquished By (Signature)	Organization	Date/Time	Releaved For Laboratory By (Signature)	Date/Time		10 Days As Contracted
			K. L. McDonald	9-23-94		

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

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)812-9591

Chevron Facility Number 9-5342
Facility Address 7007 San Ramon Rd., Emeryville
Consultant Project Number I-214-061
Consultant Name Sierra Environmental Services
Address P.O Box 2546, Martinez, CA 94553
Project Contact (Name) Ed Mote Co.
(Phone) 510-370-1280 (Fax Number) 570-370-7959

Chevron Contact (Name) Brett Hunter
(Phone) 842-3695
Laboratory Name GTEC
Laboratory Release Number 3136620
Samples Collected by (Name) J. C. C. / J. C. C.
Collection Date 09/26/94
Signature J. C. C. / J. C. C.

Sample Number	Lab Sample Number	Number of Containers	Type	Time	Sample Preparation	Label (Date or No.)	Analyses To Be Performed										Note:
							STEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (8020)	PCP/PCB (8010)	PCP/PCB (8020)	Organic (8220)	Infrared (8270)	Heavy Crude Oil (8020)			
75/68	P01	2	W	6	XCL	Y	V										Do Not Bill TB-LB Samples (3)
MIC-1A	02	3		15.00		Y											Analysis C.
MIC-2A	03			12.50													
MIC-3A	04			13.50													
MIC-4A	0501			15.40													
MIC-5A	06			13.20													
MIC-6A	07			14.20													
MIC-7A	08			12.00													
MIC-8A	09			12.30													
MIC-9A	10			11.00													

TOC SAMPLE RECEIVED 10/13/94 @ 50%

NEW: C4100245
OLD: C4090381

Tellinguished By (Signature) <i>J. C. C. / J. C. C.</i>	Organization <i>SES</i>	Date/Time 13:15 9-23-94	Received By (Signature) <i>John Weber</i>	Organization <i>GTEC</i>	Date/Time 13:15 9-23-94	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Tellinguished By (Signature) <i>John Weber</i>	Organization <i>GTEC</i>	Date/Time 18:00 9-23-94	Received By (Signature)	Organization	Date/Time	
Tellinguished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time 18:00 9-23-94	



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

October 5, 1994

Ed Morales
Sierra Environmental Services
P.O. 2546
Martinez, CA 94553

RE: GTEL Client ID: SIE01CHV08
Login Number: C4090381
Project ID (number): 1-214-04
Project ID (name): CHEVRON/#9-5542, Dublin, CA

Dear Ed Morales:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/23/94.

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 Department of Health Service under Certification Number E1075.

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

Sincerely,
GTEL Environmental Laboratories, Inc.

Edwin Morales
ccor,

Rashmi Shah
Laboratory Director

GTEL Client ID: SIE01CHV08
Login Number: C4090381
Project ID (number): 1-214-04
Project ID (name): CHEVRON/#9-5542, Dublin, CA

ANALYTICAL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number:	C4090381-01	C4090381-02	C4090381-03	C4090381-04
Client ID:	TB/LB	MW-1	MW-2	MW-3
Date Sampled:	09/22/94	09/22/94	09/22/94	09/22/94
Date Analyzed:	10/01/94	10/01/94	10/01/94	10/01/94
Dilution Factor:	1.00	100.	1.00	1.00

Reporting

Analyte	Limit	Units	Concentration:		
Benzene	0.5	ug/L	< 0.5	10000	0.7
Toluene	0.5	ug/L	< 0.5	8300	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	1000	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	4900	0.6
TPH as GAS	50.	ug/L	< 50.	42000	< 50.
BFB (Surrogate)	--	%	104.	101.	106.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846". Third Edition, Revision 1, US EPA November 1986. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

GTEL Concord, CA
C4090381:1



GTEL Client ID: SIE01CHV08
Login Number: C4090381
Project ID (number): 1-214-04
Project ID (name): CHEVRON/#9-5542, Dublin, CA

ANALYTICAL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	C4090381-05	C4090381-06	C4090381-07	C4090381-08
Client ID	MJ-4	MJ-5	MJ-6	MJ-7
Date Sampled	09/22/94	09/22/94	09/22/94	09/22/94
Date Analyzed	10/02/94	10/04/94	10/01/94	10/04/94
Dilution Factor	100.	1.00	1.00	25.0

Analyte	Reporting			Concentration:		
	Limit	Units				
Benzene	0.5	ug/L	11000	< 0.5	58.	1900
Toluene	0.5	ug/L	8800	< 0.5	3.6	230
Ethylbenzene	0.5	ug/L	1000	< 0.5	100	310
Xylenes (total)	0.5	ug/L	5100	< 0.5	290	970
TPH as GAS	50.	ug/L	45000	< 50.	2300	11000
BFB (Surrogate)	--	%	106.	93.7	111.	107.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846". Third Edition, Revision 1. US EPA November 1986. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

GTEL Concord, CA
C4090381:2

GTEL Client ID: SIE01CHV08
Login Number: C4090381
Project ID (number): 1-214-04
Project ID (name): CHEVRON/#9-5542, Dublin, CA

ANALYTICAL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

GTEL Sample Number	C4090381:09	C4090381:10
Client ID	144-8	144-9
Date Sampled	09/22/94	09/22/94
Date Analyzed	10/02/94	10/02/94
Dilution Factor	50.0	100.

Analyte	Reporting		
	Limit	Units	Concentration:
Benzene	0.5	ug/L	1600
Toluene	0.5	ug/L	180
Ethylbenzene	0.5	ug/L	260
Xylenes (total)	0.5	ug/L	840
TPH as GAS	50.	ug/L	9600
BFB (Surrogate)	--	x	100.
			98.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846". Third Edition, Revision 1, US EPA November 1986. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols, May 1988 revision.

GTEL Concord, CA
C4090381:3

GTEL Client ID: SIE01CHV08
Login Number: C4090381
Project ID (number): 1-214-04
Project ID (name): CHEVRON/#9-5542, Dublin, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

Method Blank Results

QC Batch No: G100194-5
Date Analyzed: 01-OCT-94

Analyte	Method:EPA 8020	Concentration: ug/L
Benzene	< 0.30	
Toluene	< 0.30	
Ethylbenzene	< 0.30	
Xylenes (Total)	< 0.50	
TPH as Gasoline	< 10.0	

Notes:

GTEL Client ID: SIE01CHV08
Login Number: C4090381
Project ID (number): 1-214-04
Project ID (name): CHEVRON/#9-5542, Dublin, CA

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020
Matrix: Aqueous

Matrix Spike and Matrix Spike Duplicate Results

Analyte	Concentration	Original Amount	Matrix	Matrix	Matrix Spike	Matrix Spike	Acceptability Limits		
			Spike	Spike	Duplicate	Duplicate	RPD, %	RPD, %	Recovery, %
EPA 8020	GTEL Sample ID:C4090105-01			Spike ID:G100194-1		Dup. ID:G100194-2			
Units: ug/L									
				01-OCT-94		01-OCT-94			Client ID:Batch QC
Benzene	< 0.50	20.0	19.4	96.9	19.0	94.9	2	34	57.3-138%
Toluene	< 1.0	20.0	18.0	90.0	17.5	87.5	2.8	31	63-134%
Ethylbenzene	< 1.0	20.0	17.1	85.5	16.7	83.5	2.3	38	59.3-137%
Xylenes (Total)	< 2.0	60.0	52.2	87.0	51.3	85.5	1.7	31	59.3-144%

Notes:



4080 Pike Lane
Concord, CA 94520
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(800) 423-7143 Outside CA
(510) 825-0720 FAX

Client Number: SIE01CH-V08
Consultant Project Number: 1-214-04
Facility Number: 9-5542
Project ID: 7007 San Ramon Rd.
Dublin
Work Order Number: C4-10-0245

October 14, 1994

Ed Morales
Sierra Environmental Services
P.O. Box 2546
Martinez, CA 94553

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 09/23/94.

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.

A handwritten signature in black ink, appearing to read 'Rashmi Shah'.

Rashmi Shah
Laboratory Director

Client Number: SIE01CHV08
Consultant Project Number: 1-214-04
Facility Number: 9-5542
Project ID: 7007 San Ramon Rd.
Dublin
Work Order Number: C4-10-0245

ANALYTICAL RESULTS

Total Oil and Grease in Water by Infrared Spectrometry

EPA Method 413.2¹(SM 5520 C²)

1. Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-202, Revised March 1983, U.S. Environmental Protection Agency.
2. Standard Methods for the Examination of Water and Wastewater, 17th ed., 1989, American Public Health Association.

GTEL Sample Number	01	101494 TPH		
Client Identification	MW-4	METHOD BLANK		
Date Sampled	09/22/94	-		
Date Prepared	10/14/94	10/14/94		
Date Analyzed	10/14/94	10/14/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L		
Total Oil and Grease	5000	5000	<5000	
Detection Limit Multiplier	1	1		

Client Number: SIE01CHV08
Consultant Project Number: 1-214-04
Facility Number: 9-5542
Project ID: 7007 San Ramon Rd.
Dublin
Work Order Number: C4-10-0245

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
TPH/IR:	LCS	52.6	mg/L	95.8	96.1	0.3	70 - 130



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Sierra Environmental Services
Attn: Ed Morales

Project 1-214-04
Reported 10/19/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
15872- 1	MW-8	10/14/94	10/19/94 Water
15872- 2	TB-LB	10/14/94	10/19/94 Water

RESULTS OF ANALYSIS

Laboratory Number: 15872- 1 15872- 2

Gasoline_Range:	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	ND<0.5

Concentration: ug/L ug/L



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

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

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 15872

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:

Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:

Minimum Quantitation Limit for Diesel in Water: 50ug/L

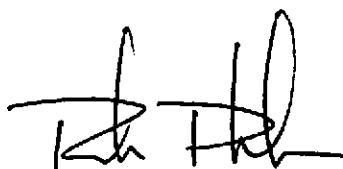
EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:

Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE

Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline_Range:	94/96	2%	56-117
Benzene:	94/97	3%	59-149
Toluene:	95/97	2%	59-149
Ethyl Benzene:	86/89	3%	59-149
Total Xylenes:	90/92	2%	59-149



10/20/94

Senior Chemist
Account Manager

Certified Laboratories

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