



# GETTLER-RYAN INC.

November 4, 1996

Job #5290.80

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

Re: Third Quarter Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-5542  
7007 San Ramon Valley Road  
Dublin, California

Dear Mr. Hunter:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On September 30, 1996, field personnel were on-site to monitor and sample nine wells (MW-1 through MW-4 and MW-6 through MW-10) at Chevron Service Station #9-5542 located at 7007 San Ramon Valley Road in Dublin, California. One well, MW-5, was not located due to street widening work.

Static groundwater levels were measured on September 30, 1996. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

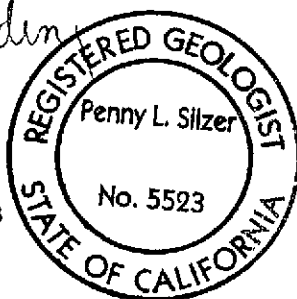
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets forms for this event are also attached. The samples were analyzed by NEI/GTEL Environmental Laboratories, Inc. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are enclosed.

Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

*Deanna L. Harding*  
Deanna L. Harding  
Project Coordinator

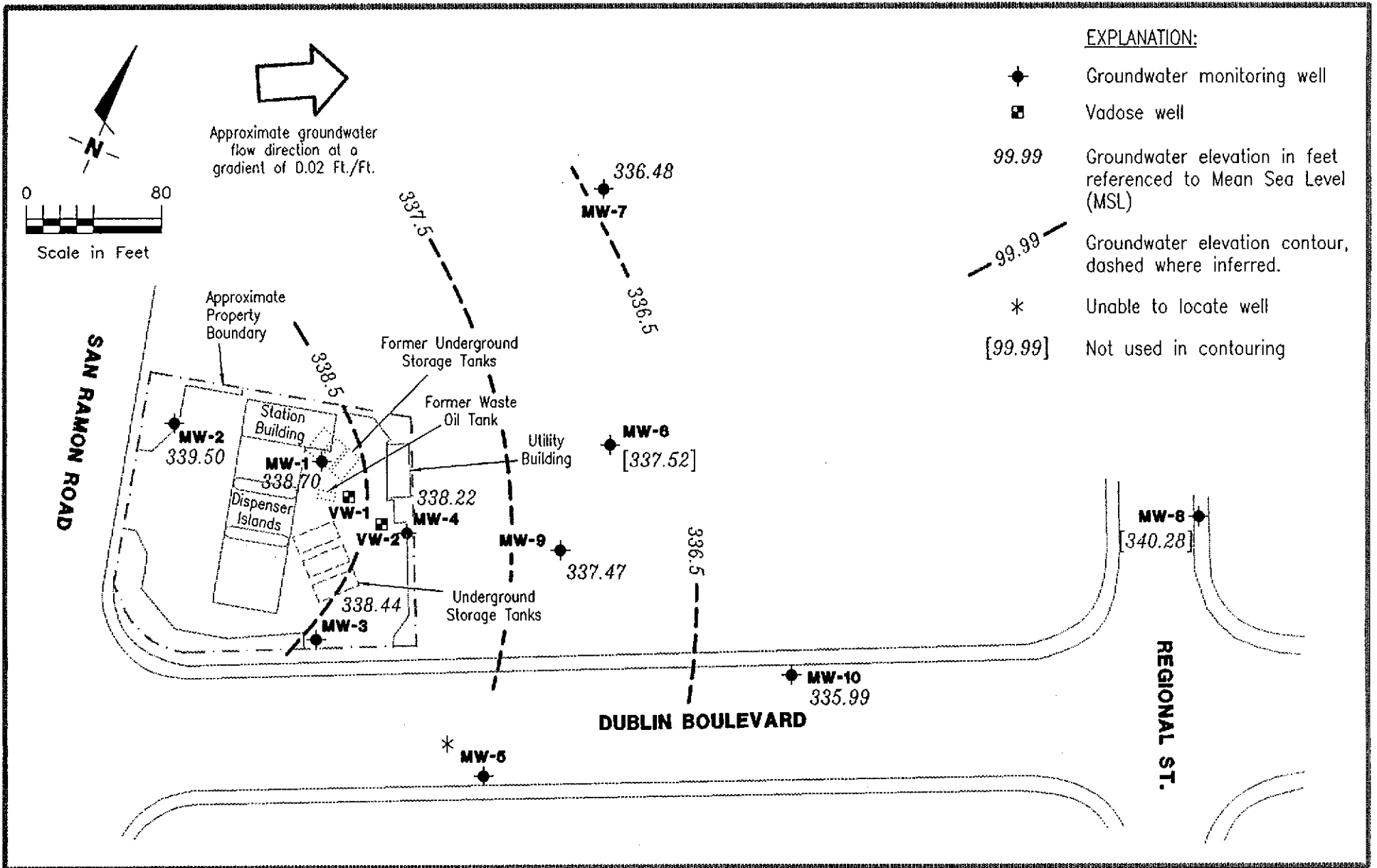
*Penny L. Silzer*  
Penny L. Silzer  
Senior Geologist, R.G. No. 5523



DLH/PLS/dlh  
5290.QML

Figure 1: Potentiometric Map  
Table 1: Water Level Data and Groundwater Analytical Results  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports

97 JAN 30 AM 8:51  
ENVIRONMENTAL  
PROTECTION



**EXPLANATION:**

- ◆ Groundwater monitoring well
- Vadose well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - 99.99 Groundwater elevation contour, dashed where inferred.
- \* Unable to locate well
- [99.99] Not used in contouring



**Gettler - Ryan Inc.**

6747 Sierra Ct., Suite J (510) 551-7555  
Dublin, CA 94568

**POTENTIOMETRIC MAP**  
Chevron Service Station No. 9-5542  
7007 San Ramon Road  
Dublin, California

FIGURE

**1**

JOB NUMBER  
5290

REVIEWED BY

DATE  
September 30, 1996

REVISED DATE



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	O&G	←-----ppb----->				MTBE	Other HVOCs	1,2-DCA	EDB
							B	T	E	X				
MW-1/ (D)	4/3-4/90	---	---	---	46,000	---	8,400	7,400	860	5,600	---	---	---	1.04
	4/3-4/90	---	---	---	43,000	---	8,400	7,200	840	5,200	---	---	---	1.1
363.98 <sup>1</sup>	5/31/91	25.67	338.31	0	31,000	---	7,400	2,500	630	2,100	---	ND <sup>g</sup>	2	---
	5/31/91	---	---	---	---	<5,000	---	---	---	---	---	---	---	---
	6/21/91	26.23	337.75	0	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.53	337.45	0	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	31,000	---	3,000	2,800	610	3,100	---	ND <sup>g</sup>	0.6	---
	10/4/91	27.90	336.08	0	---	---	---	---	---	---	---	---	---	---
	12/19/91	28.12	335.86	0	20,000	---	5,200	1,700	560	2,000	---	ND <sup>g</sup>	3.3	---
	3/19/92	24.63	339.35	0	30,000	---	8,500	3,600	590	2,400	---	ND <sup>g</sup>	2.7	---
364.32 <sup>2</sup>	6/19/92	26.23	338.09	0	25,000	---	1,100	2,000	520	1,800	---	---	---	---
	9/22/92	27.73	336.59	0	21,000	---	8,000	3,500	670	2,900	---	---	---	---
	12/18/92	26.76	337.56	0	79,000	---	12,000	12,000	1,600	8,500	---	---	---	---
	3/10/93 <sup>6,13</sup>	---	---	---	45,000	---	16,000	14,000	1,100	5,500	---	---	---	---
	3/22/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/23/93 <sup>4</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/21/94	26.16	338.16	0	5,900	---	1,600	560	140	330	---	---	---	---
	7/6/94	27.20	337.12	0	---	---	---	---	---	---	---	---	---	---
	8/26/94	---	---	---	20,000	---	5,300	4,900	610	2,900	---	---	---	---
	9/22/94	27.44	336.88	0	42,000	---	10,000	8,300	1,000	4,900	---	---	---	---
	12/8/94	26.70	337.62	---	38,000	---	9,000	7,700	830	3,800	---	---	---	---
	3/6/95	23.68	340.64	0	47,000	---	9,400	7,100	750	3,400	---	---	---	---
	6/8/95	22.68	341.64	0	170,000	---	29,000	29,000	2,600	13,000	---	---	---	---
	9/13/95	25.10	339.22	0	39,000	---	11,000	10,000	1,100	4,900	---	---	---	---
	12/16/95	26.08	338.24	0	40,000	---	7,000	6,300	570	2,500	<2.5	---	---	---
	3/28/96	22.20	342.12	0	16,000	---	3,700	3,200	330	1,500	<120	---	---	---
	6/27/96	24.20	340.12	0	40,000	---	6,900	8,700	830	4,000	<120	---	---	---
	9/30/96	25.62	338.70	0	190,000	---	24,000	31,000	2,900	14,000	380	---	---	---
MW-2/ 364.19 <sup>1</sup>	4/3-4/90	---	---	---	<50	---	<0.3	<0.3	<0.3	<0.6	---	---	---	<0.02
	5/31/91	25.51	338.68	0	100	---	3.1	4.2	0.7	2.0	---	ND <sup>g</sup>	<0.5	---
	5/31/91	---	---	---	---	<5,000	---	---	---	---	---	---	---	---
	6/21/91	26.13	338.06	0	---	---	---	---	---	---	---	---	---	---
	7/17/91	26.46	337.73	0	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	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	<50	---	0.6	1.2	0.8	2.5	---	---	---	---
	3/19/92	24.46	339.73	0	<50	---	2.5	2.0	1.1	2.4	---	---	---	---
364.64 <sup>2</sup>	6/19/92	26.10	338.54	0	<50	---	<0.5	0.6	0.7	1.2	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB
MW-2	9/22/92	27.60	337.04	0	200	---	16	42	6.1	32	---	---	---	---
(cont)	12/18/92	26.32	338.32	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/22/93	21.39	343.29	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/14/93	25.15	339.49	0	---	---	---	---	---	---	---	---	---	---
	7/25/93	24.52	340.12	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/23/93	25.63	339.01	0	72	---	12	4	6	8	---	---	---	---
	12/22/93	26.34	338.30	0	1,600	---	25	<0.5	3.8	4.8	---	---	---	---
	3/21/94	25.83	338.81	0	<50	---	0.7	3.3	<0.5	1.9	---	---	---	---
	6/29/94	---	---	---	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	<50	---	0.7	<0.5	<0.5	0.6	---	---	---	---
	12/8/94	26.28	338.36	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/6/95	23.27	341.37	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/8/95	22.38	342.26	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/13/95	24.95	339.95	0	<50	---	<0.5	0.8	<0.5	0.8	---	---	---	---
	12/16/95	25.78	338.86	0	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---
	3/28/96	21.34	343.30	0	<50	---	0.8	5.6	1.0	6.2	<5.0	---	---	---
	6/27/96	23.99	340.65	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
	9/30/96	25.14	339.50	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---
MW-3/ 361.92 <sup>1</sup>	4/3-4/90	---	---	---	2,200	---	36	5	6	17	---	---	---	<0.02
	5/31/91	23.20	338.72	0	2,200	---	130	11	31	78	---	ND <sup>8</sup>	19	---
	5/31/91	---	---	---	---	<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	2,200	---	190	6.0	24	32	---	---	---	---
	12/19/91	26.24	335.68	0	640	---	73	27	17	56	---	---	---	---
	3/19/92	22.46	339.46	0	4,500	---	1,000	15	91	240	---	---	---	---
362.26 <sup>2</sup>	6/19/92	24.32	337.94	0	1,100	---	89	3.3	9.1	13	---	---	---	---
	9/22/92	25.84	336.42	0	1,400	---	81	51	15	49	---	---	---	---
	12/18/92	24.40	337.86	0	1,100	---	2.0	1.1	53	38	---	---	---	---
	3/22/93	19.72	342.54	0	1,600	---	96	9	14	91	---	---	---	---
	6/14/93	23.52	338.74	0	---	---	---	---	---	---	---	---	---	---
	7/25/93	23.21	339.05	0	1,200	---	19	6	2	5	---	---	---	---
	9/23/93	24.02	338.24	0	1,500	---	35	<0.5	5	13	---	---	---	---
	12/22/93	24.67	337.59	0	1,500	---	26	<0.5	3.9	4.9	---	---	---	---
	3/21/94	24.05	338.21	0	1,400	---	22	14	1.1	5.3	---	---	---	---
	6/29/94	---	---	---	1,700	---	90	6.1	20	81	---	---	---	---
	7/6/94	25.08	337.18	0	---	---	---	---	---	---	---	---	---	---
	9/22/94	24.78	337.48	0	2,600	---	72	7.6	110	370	---	---	---	---
	12/8/94	24.35	337.91	0	2,700	---	32	<0.5	100	140	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	O&G	Product				MTBE	Other HVOCs	1,2-DCA	EDB
							B	T	E	X				
						←-----ppb----->								
MW-3 (cont)	3/6/95	21.47	340.79	0	1,000	---	4.0	9.9	8.8	7.7	---	---	---	---
	6/8/95	20.99	341.27	0	1,500	---	13	3.2	12	17	---	---	---	---
	9/13/95	23.51	338.75	0	2,100	---	12	79	76	420	---	---	---	---
	12/16/95	24.00	338.26	0	650	---	<0.5	<0.5	4.4	6.5	12	---	---	---
	3/28/96	19.90	342.36	0	1,500	---	4.3	6.5	60	100	15	---	---	---
	6/27/96	21.98	340.28	0	1,200	---	<0.5	<0.5	1.9	2.0	13	---	---	---
	9/30/96	23.82	338.44	0	620	---	<0.5	<0.5	<0.5	0.8	10	---	---	---
MW-4/	4/3-4/90	---	---	---	43,000	18,000	4,000	5,000	790	5,500	---	---	---	<0.02
	4/3-4/90	---	---	---	---	---	6,000	8,200	1,500	---	---	---	---	---
362.70 <sup>1</sup>	5/31/91	24.67	338.03	0	34,000	---	2,900	2,900	680	3,300	---	ND <sup>8</sup>	<0.5	---
	5/31/91	---	---	---	<5,000	---	---	---	---	---	---	---	---	---
	6/21/91	25.31	337.39	0	---	---	---	---	---	---	---	---	---	---
	7/17/91	25.73	336.97	0	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	37,000	---	4,000	3,200	580	3,000	---	ND <sup>8</sup>	9.2	---
	10/4/91	27.08	335.62	0	---	---	---	---	---	---	---	---	---	---
	12/19/91	27.24	335.46	0	41,000	---	5,500	4,900	1,000	4,400	---	ND <sup>8</sup>	17	---
	3/19/92	23.66	339.04	0	21,000	---	3,800	2,900	500	3,200	---	ND <sup>9</sup>	15	---
363.07 <sup>2</sup>	6/19/92	25.33	337.74	0	27,000	<5,000	1,800	1,600	570	1,900	---	---	---	---
	9/22/92	26.90	336.17	0	20,000	<5,000	4,100	2,700	670	3,200	---	---	---	---
	12/18/92	25.62	337.45	0	15,000	<5,000	2,200	2,000	370	1,600	---	---	---	---
	3/22/93	20.80	342.27	0	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	94,000	<5,000	18,000	30,000	2,400	14,000	---	---	---	---
	9/23/93	25.00	338.07	0	23,000	<5,000	4,700	2,000	900	4,600	---	---	---	---
	12/22/93	25.72	337.35	0	18,000	<5,000	2,800	1,300	420	1,700	---	---	---	---
	3/21/94	25.09	337.98	0	21,000	<5,000	2,800	1,700	540	1,900	---	---	---	---
	6/29/94	---	---	---	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	---	---	---	---
	12/8/94 <sup>14</sup>	25.55	337.52	0	6,700	<5,000	1,200	720	34	1,100	---	---	---	---
	3/6/95	22.64	340.43	0	8,900	---	1,400	540	350	940	---	---	---	---
	6/8/95	22.01	341.06	0	15,000	---	2,000	1,500	400	1,500	---	---	---	---
	9/13/95	24.42	338.65	0	10,000 <sup>15</sup>	---	3,100	670	500	1,400	---	---	---	---
	12/16/95	25.18	337.89	0	15,000	---	2,900	960	420	1,200	<2.5	---	---	---
	3/28/96	20.97	342.10	0	8,600	---	1,300	920	330	1,100	<10	---	---	---
	6/27/96	21.63	341.44	0	18,000	---	2,600	1,500	740	2,400	<50	---	---	---
363.07 <sup>16</sup>	9/30/96	24.85	338.22	0	24,000	---	3,200	1,200	710	2,200	87	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	O&G	←-----ppb----->				MTBE	Other HVOCs	1,2-DCA	EDB	
							B	T	E	X					
MW-5/ 359.95 <sup>1</sup>	6/21/91	23.17	336.78	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	6/21/91	---	---	---	---	---	---	---	---	---	ND <sup>9</sup>	<0.5	---		
	7/17/91	23.68	336.27	0	---	---	---	---	---	---	---	---	---		
	9/20/91	---	---	---	170 <sup>10</sup>	---	0.8	0.9	<0.5	1.5	---	---	---	---	
	10/4/91	25.20	334.75	0	---	---	---	---	---	---	---	---	---		
	12/19/91	25.20	334.75	0	<50	---	0.7	0.7	<0.5	1.4	---	---	---	---	
	3/19/92	21.21	338.74	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	360.28 <sup>2</sup>	6/19/92	23.42	336.86	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
		9/22/92	24.97	335.31	0	150	---	13	34	5.0	26	---	---	---	---
		12/18/92	23.52	336.76	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
		3/10/93	---	---	---	<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	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
		9/23/93	23.48	336.80	0	<50	---	3	1	1	2	---	---	---	---
		12/22/93	23.98	336.30	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
		3/21/94	23.18	337.10	0	<50	---	2.4	1.4	<0.5	2	---	---	---	---
		6/29/94	---	---	---	<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	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
12/8/94		23.42	336.86	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
3/6/95		20.65	339.63	0	67	---	1.9	2.5	4.7	19	---	---	---	---	
6/8/95		20.76	339.52	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
9/13/95		23.16	337.12	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
12/16/95		Unable to locate		---	---	---	---	---	---	---	---	---	---	---	
3/28/96		Unable to locate		---	---	---	---	---	---	---	---	---	---	---	
6/27/96	Unable to locate		---	---	---	---	---	---	---	---	---	---	---		
9/30/96	Unable to locate		---	---	---	---	---	---	---	---	---	---	---		
MW-6/ 360.22 <sup>1</sup>	6/21/91	23.55	336.67	0	3,700	---	50	2.6	150	340	---	---	---	---	
	6/21/91	---	---	---	---	---	---	---	---	---	---	ND <sup>9</sup>	<0.5	---	
	7/17/91	24.00	336.22	0	---	---	---	---	---	---	---	---	---	---	
	9/20/91	---	---	---	3,200	---	28	<0.5	140	100	---	---	---	---	
	10/4/91	25.29	334.93	0	---	---	---	---	---	---	---	---	---	---	
	12/19/91	25.34	334.88	0	380	---	2.7	4.0	15	10	---	---	---	---	
	3/19/92	22.05	338.17	0	3,400	---	57	4.5	330	360	---	---	---	---	
	360.58 <sup>2</sup>	6/19/92	23.52	337.06	0	980	---	11	4.2	57	38	---	---	---	---
		9/22/92	25.60	334.98	0	1,100	---	22	41	77	58	---	---	---	---
		12/18/92	24.18	336.40	0	1,900	---	3.2	1.3	58	47	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB
MW-6 (cont)	3/10/93	---	---	---	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	83 <sup>11</sup>	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/23/93	23.20	337.38	0	200	---	6	2	3	3	---	---	---	---
	12/22/93	23.91	336.67	0	130	---	<0.5	1.8	1.2	1.5	---	---	---	---
	3/21/94	23.27	337.31	0	290	---	3	10	1.6	4.7	---	---	---	---
	6/29/94	---	---	---	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	2,300	---	58	3.6	100	290	---	---	---	---
	12/8/94	23.85	336.73	0	<50	---	<0.5	<0.5	<0.5	0.9	---	---	---	---
	3/6/95	20.91	339.67	0	360	---	2.0	3.6	0.9	2.3	---	---	---	---
	6/8/95	20.18	340.40	0	230	---	<0.5	<0.5	1.0	1.6	---	---	---	---
	9/13/95	23.53	337.05	0	88	---	<0.5	<0.5	<0.5	1.1	---	---	---	---
	12/16/95	23.38	337.20	0	<50	---	<0.5	<0.5	<0.5	<0.5	7.3	---	---	---
	3/28/96	19.37	341.21	0	130	---	<0.5	<0.5	<0.5	<0.5	9.2	---	---	---
6/27/96	21.66	338.92	0	<50	---	<0.5	<0.5	<0.5	<0.5	5.7	---	---	---	
9/30/96	23.06	337.52	0	50	---	<0.5	<0.5	<0.5	<0.5	6.3	---	---	---	
MW-7/ 360.63 <sup>1</sup>	6/21/91	23.45	337.18	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/21/91	---	---	---	---	---	---	---	---	---	---	ND <sup>8</sup>	<0.5	---
	7/17/91	23.90	336.73	0	---	---	---	---	---	---	---	---	---	---
	9/20/91	---	---	---	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	<50	---	0.9	2.8	1.7	5.9	---	---	---	---
	3/19/92	22.74	337.89	0	<50	---	1.1	0.6	0.9	2.5	---	---	---	---
	6/19/92 <sup>3</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	9/22/92 <sup>3</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/18/92 <sup>3</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
360.99 <sup>2</sup>	3/22/93 <sup>3</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/14/93 <sup>3</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/25/93 <sup>3</sup>	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/23/93	23.67	338.01	0	<50	---	0.9	0.5	<0.5	<0.5	---	---	---	---
	3/21/94	24.13	337.55	0	<50	---	0.5	1.1	<0.5	1.4	---	---	---	---
361.68 <sup>6</sup>	6/29/94	---	---	---	<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	11,000	---	1,900	230	310	970	---	---	---	---
	12/8/94	26.23	335.45	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/6/95	23.19	338.49	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/8/95	22.14	339.54	0	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	O&G	B	T	E	X	MTBE	Other HVOCs	1,2-DCA	EDB
MW-7	9/13/95	24.55	337.13	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
(cont)	12/16/95	25.74	335.94	0	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
	3/28/96	21.72	339.96	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	6/27/96	23.50	338.18	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	9/30/96	25.20	336.48	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
MW-8/														
---	12/12/91	22.54	--	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
354.89 <sup>2</sup>	6/19/92	20.47	334.42	0	<50	--	1.2	1.4	0.5	2.9	--	--	--	--
	9/22/92	29.80	325.09	0	180	--	17	42	6.0	31	--	--	--	--
	12/18/92	21.18	333.71	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/10/93	--	--	--	<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	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/23/93	20.40	334.49	0	<50	--	1	0.9	0.7	1	--	--	--	--
	12/22/93	20.92	333.97	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/21/94	20.19	334.70	0	<50	--	0.9	1.5	<0.5	2	--	--	--	--
	6/29/94	--	--	--	<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	9,600	--	1,600	180	260	840	--	--	--	--
	10/14/94	21.84	333.05	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/8/94	20.71	334.18	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	3/6/95	18.11	336.78	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	6/8/95	17.79	337.10	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	9/13/95	19.80	335.09	0	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	12/16/95	20.46	334.43	0	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
	3/28/96	15.42	339.47	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
	6/27/96	19.08	335.81	0	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--
360.58 <sup>16</sup>	9/30/96	20.30	340.28	0	<50	--	<0.5	<0.5	<0.5	0.6	<5.0	--	--	--
MW-9/														
361.23 <sup>7</sup>	7/6/94	25.15	336.08	0	--	--	--	--	--	--	--	--	--	--
	8/26/94	--	--	--	12,000	--	1,700	240	410	1,400	--	--	--	--
	9/22/94	25.74	335.49	0	10,000	--	1,900	290	320	1,200	--	--	--	--
	12/8/94	24.84	336.39	0	18,000	--	2,400	780	450	4,600	--	--	--	--
	3/6/95	21.83	339.40	0	6,100	--	1,400	260	420	1,500	--	--	--	--
	6/8/95	21.29	339.94	0	14,000	--	2,100	220	540	1,700	--	--	--	--
	9/13/95	23.65	337.85	0	11,000	--	1,900	120	490	1,400	--	--	--	--
	12/16/95	24.32	336.91	0	16,000	--	1,900	<0.5	680	1,200	<2.5	--	--	--





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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	O&G	←-----ppb----->					MTBE	Other HVOCs	1,2-DCA	EDB
							B	T	E	X					
MW-9	3/28/96	20.45	340.78	0	960	---	120	5.9	33	70	18	---	---	---	
(cont)	6/27/96	22.84	338.39	0	10,000	---	1,200	46	340	1,000	66	---	---	---	
361.59 <sup>16</sup>	9/30/96	24.12	337.47	0	15,000	---	1,300	36	390	950	100	---	---	---	
MW-10															
	6/27/96	20.74	---	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	
358.02 <sup>16</sup>	9/30/96	22.03	335.99	0	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	
Trip Blank															
MW-AA	5/31/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	6/21/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	9/20/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	12/19/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	3/19/92	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
TB-LB	6/19/92	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	9/22/92	---	---	---	92 <sup>12</sup>	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	12/18/92	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	3/10/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	3/22/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	7/25/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	9/23/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	12/22/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	3/21/94	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	6/29/94	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	7/1/94	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	7/6/94	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	9/22/94	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	12/8/94	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	3/6/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	6/8/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	9/13/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
	12/16/95	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	
	3/28/96	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	
	6/27/96	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	
	9/30/96	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	



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

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product		O&G	B	T	E	X	MTBE	Other	1,2-DCA	EDB
				Thickness*	TPH(G)							HVOCs		
←-----ppb----->														
Bailer Blank	5/31/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
MW-BB	6/21/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/20/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/19/91	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/19/92	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	6/19/92	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/22/92	---	---	---	<50	---	<0.5	<0.5	<0.5	0.8	---	---	---	---
	12/21/92	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/10/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/22/93	---	---	---	<50	---	<0.5	<0.5	<0.5	0.6	---	---	---	---
	7/25/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/23/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/22/93	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/21/94	---	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---



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

EXPLANATION:

TOC = Top of casing elevation  
(ft) = feet  
DTW = Depth to water  
GWE = Groundwater elevation  
msl = Measurements referenced relative to mean sea level  
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline  
O&G = Oil and Grease  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes  
MTBE = Methyl-tertiary-butyl ether  
HVOCs = Halogenated Volatile Organic Compounds  
1,2-DCA = 1,2-Dichloroethane  
EDB = Ethylene dibromide  
ppb = Parts per billion  
--- = Not available/not applicable

ANALYTICAL METHODS:

EPA Method 8015/5030 for TPH(G)  
EPA Method 602 for BTEX  
EPA Method 504 for EDB  
EPA Method 8020 for BTEX & MTBE  
EPA Method 8010 for HVOCs  
Standards Methods Method 503E for O&G  
EPA Method 413.1 for total O&G  
EPA Method 624 for BTEX and VOCs  
Standard Methods Method 5520 for O&G  
LUFT = DHS LUFT Manual Method for OL

NOTES:

Groundwater elevation data and laboratory analytical results prior to March 6, 1995, were compiled from the Quarterly Groundwater Monitoring Reports prepared for Chevron by Sierra Environmental Services.

- \* Product thickness was measured with an MMC flexi-dip interface probe.
- <sup>1</sup> Top of casing elevations for monitoring wells MW-1 through MW-7 were surveyed by Ron Miller, Professional Engineer #15816 on June 26, 1991.
- <sup>2</sup> 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.
- <sup>3</sup> Well could not be located on this date due to surface conditions from recent discing.
- <sup>4</sup> Monitoring well part of remediation system.
- <sup>5</sup> Monitoring well not located since March 1992 sampling event.
- <sup>6</sup> Top of casing elevation surveyed by Ron Miller, PE #15816, on January 13, 1994.
- <sup>7</sup> Monitoring well surveyed by Ron Miller, PE #15816, on July 5, 1994.
- <sup>8</sup> Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.
- <sup>9</sup> 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.
- <sup>10</sup> A non-standard gasoline pattern was observed in the chromatogram.
- <sup>11</sup> Uncategorized compound not included in gasoline total.
- <sup>12</sup> Gasoline range concentration reported. The chromatogram shows only a single peak in the gasoline range.
- <sup>13</sup> Analytical results provided by Chevron Project Manager.
- <sup>14</sup> TPH(G) and BTEX results are estimated concentrations. Due to laboratory error, sample was analyzed past the recommended holding time. (GTEL).
- <sup>15</sup> Laboratory report indicates uncategorized compound is not included in gasoline concentration.
- <sup>16</sup> Surveyed by Virgil Chavez Land Surveying on 10/15/96, elevations based on previous TOC data.



## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

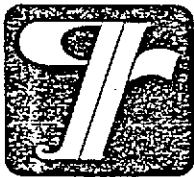
After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

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

As requested by Chevron USA Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.



WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sanchez / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-1 Well Condition okay

Well Location Description \_\_\_\_\_

Well Diameter 4 in Hydrocarbon Thickness 0

Total Depth 50.0 ft

Depth to Liquid 25.62 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

# of casing 3x 24.38 x 0.66 x (VF) 16.1 #Estimated 0.8 gal. purge Volume

Purge Equipment Cornucopias Sampling Equipment Disposable Bailers

Did well dewater No If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 1140 Purging Flow Rate 3.2 gpm.

Sampling Time 1157

Time	pH	Conductivity	Temperature	Volume
<u>1145</u> <u>5</u>	<u>7.53</u>	<u>566</u>	<u>19.7</u>	<u>16</u>
<u>1150</u>	<u>7.53</u>	<u>566</u>	<u>20.1</u>	<u>32</u>
<u>1155</u>	<u>7.54</u>	<u>560</u>	<u>20.1</u>	<u>48</u>
<u>1157</u>	<u>7.52</u>	<u>570</u>	<u>20.2</u>	<u>49</u>

Weather Conditions Cloudy cool Breeze

Water Color: clear Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-1</u>	<u>3x40 mL</u>	<u>Y</u>	<u>HCL</u>	<u>ATEL</u>	<u>Gas BTEX w/ HHS</u>

Comments \_\_\_\_\_



### WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sanchez / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-2 Well Condition OK

#### Well Location Description

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 39.0 ft

Depth to Liquid 25.14 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

3 # of casing Volume 13.86 x 17 x(VF) 2.4 #Estimated purge Volume 7.2 gal.

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater No If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 1015 Purging Flow Rate 1.2 gpm.

Sampling Time 1026

Time	pH	Conductivity	Temperature	Volume
<u>1017</u>	<u>7.15</u>	<u>1207</u>	<u>17.3</u>	<u>2.4</u> gal
<u>1019</u>	<u>7.08</u>	<u>1185</u>	<u>18.8</u>	<u>4.8</u>
<u>1021</u>	<u>7.05</u>	<u>1182</u>	<u>18.8</u>	<u>7.2</u>
<u>1024</u>	<u>7.06</u>	<u>1181</u>	<u>18.7</u>	<u>8.0</u>

Weather Conditions Fog

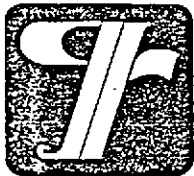
Water Color: clear Odor: normal

Sediment Description none

#### LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-2</u>	<u>3x40ml</u>	<u>y</u>	<u>HCL</u>	<u>GTCL</u>	<u>Gas DTEX w/ MTBE</u>

Comments \_\_\_\_\_



WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sanders / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-3 Well Condition OK  
 Well Location Description \_\_\_\_\_

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 35.0 ft  
 Depth to Liquid 23.82 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

3 # of casing Volume 11.18 x .17 x(VF) 1.9 #Estimated 5.7 gal. purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater No If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 1137 Purging Flow Rate 2 gpm.

Sampling Time 1145

Time	pH	Conductivity	Temperature	Volume
<u>1138</u>	<u>7.06</u>	<u>1180</u>	<u>17.4</u>	<u>2 gal</u>
<u>1139</u>	<u>7.10</u>	<u>1178</u>	<u>19.3</u>	<u>7</u>
<u>1140</u>	<u>7.12</u>	<u>1170</u>	<u>18.1</u>	<u>6</u>
<u>1145</u>	<u>7.13</u>	<u>1168</u>	<u>18.1</u>	<u>7</u>

Weather Conditions Some fog

Water Color: Clear Odor: mild

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-3</u>	<u>3x40ml</u>	<u>X</u>	<u>ITL</u>	<u>ATEL</u>	<u>Geo BTEX w/ MTBE</u>

Comments \_\_\_\_\_







WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sander / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-5 Well Condition \_\_\_\_\_

Well Location Description \_\_\_\_\_

Well Diameter \_\_\_\_\_ in Hydrocarbon Thickness \_\_\_\_\_

Total Depth \_\_\_\_\_ ft

Depth to Liquid \_\_\_\_\_ ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

# of casing Volume \_\_\_\_\_ x \_\_\_\_\_ x(VF) \_\_\_\_\_ #Estimated purge Volume \_\_\_\_\_ gal.

Purge Equipment \_\_\_\_\_ Sampling Equipment Disposable Bailer

Did well dewater \_\_\_\_\_ If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time \_\_\_\_\_ Purging Flow Rate \_\_\_\_\_ gpm.

Sampling Time \_\_\_\_\_

Time pH Conductivity Temperature Volume

Unable to locate well. Well could be buried or destroyed

Weather Conditions \_\_\_\_\_

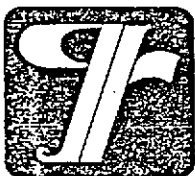
Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_

Sediment Description \_\_\_\_\_

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW -</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas DTEX w/ MTSE</u>

Comments \_\_\_\_\_



WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sanchez / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-6 Well Condition OK

Well Location Description

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 34.0 ft

Depth to Liquid 23.06 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

3 # of casing Volume 10.94 x 1.17 x(VF) 1.85 #Estimated purge Volume 5-6 gal.

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater No If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 1057 Purging Flow Rate 2 gpm.

Sampling Time 1104

Time	pH	Conductivity	Temperature	Volume
<u>1058</u>	<u>7.07</u>	<u>1191</u>	<u>17.2</u>	<u>2</u> gal
<u>1059</u>	<u>7.04</u>	<u>1185</u>	<u>17.6</u>	<u>4</u>
<u>1100</u>	<u>7.02</u>	<u>1184</u>	<u>17.8</u>	<u>6</u>
<u>1104</u>	<u>7.02</u>	<u>1184</u>	<u>17.8</u>	<u>7</u>

Weather Conditions Fog

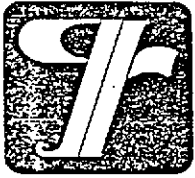
Water Color: clear Odor: none

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-6</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Gas PTEX w/ HPLC</u>

Comments \_\_\_\_\_



WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sanders / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-7 Well Condition OK

Well Location Description \_\_\_\_\_

Well Diameter 2 in Hydrocarbon Thickness 6

Total Depth 35.0 ft

Depth to Liquid 25.20 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

# of casing Volume 9.80 x .12 x(VF) 1.7 #Estimated 5.0 gal. purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater no If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 9:42 Purging Flow Rate 1.7 gpm.

Sampling Time 9:50

Time	pH	Conductivity	Temperature	Volume
<u>9:43</u>	<u>7.12</u>	<u>1303</u>	<u>16.9</u>	<u>1.2</u>
<u>9:44</u>	<u>7.10</u>	<u>1301</u>	<u>17.1</u>	<u>3.4</u>
<u>9:45</u>	<u>7.08</u>	<u>1300</u>	<u>17.2</u>	<u>5.1</u>
<u>9:50</u>	<u>7.07</u>	<u>1300</u>	<u>17.2</u>	<u>6.0</u>

Weather Conditions Fog

Water Color: clear Odor: none

Sediment Description none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-7</u>	<u>3x40ml</u>	<u>y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Geo DETX w/ MTR</u>

Comments \_\_\_\_\_



### WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sanchez / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-8 Well Condition OK  
 Well Location Description \_\_\_\_\_

Well Diameter 2 in  
 Total Depth 34.0 ft  
 Depth to Liquid 20.30 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

# of casing Volume 13.7 x 0.17 x(VF) 2.3 #Estimated 7.0 gal.  
 Purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer  
 Did well dewater No If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 9:00 Purging Flow Rate 1.2 gpm.  
 Sampling Time 9:10

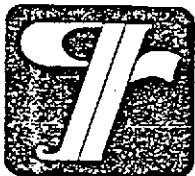
Time	pH	Conductivity	Temperature	Volume
<u>9:02</u>	<u>7.07</u>	<u>1358</u>	<u>17.0</u>	<u>2.4</u> gal
<u>9:04</u>	<u>7.02</u>	<u>1354</u>	<u>18.1</u>	<u>4.8</u> gal
<u>9:06</u>	<u>7.01</u>	<u>1351</u>	<u>18.2</u>	<u>7.2</u> gal
<u>9:10</u>	<u>7.01</u>	<u>1351</u>	<u>19.2</u>	<u>8.0</u> gal

Weather Conditions Fog  
 Water Color: Clear Odor: none  
 Sediment Description none

### LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Geo BTEX w/ MTBE</u>

Comments \_\_\_\_\_  
 \_\_\_\_\_



### WELL SAMPLING FIELD DATA SHEET

SAMPLER G. Sanchez / F. Cline DATE 9-30-96  
 ADDRESS 7007 San Ramon Valley Rd JOB # 5290.86  
 CITY Dublin SS# 9-5542

Well ID MW-9 Well Condition OK

Well Location Description

Well Diameter 2 in Hydrocarbon Thickness 0

Total Depth 33.0 ft

Depth to Liquid 24.12 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

# of casing Volume 8.88 x .17 x(VF) 1.5 #Estimated 4.5 gal. purge Volume

Purge Equipment Stack Pump Sampling Equipment Disposable Bailer

Did well dewater no If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 1156 Purging Flow Rate 1.5 gpm.

Sampling Time 1204

Time	pH	Conductivity	Temperature	Volume
<u>1157</u>	<u>7.05</u>	<u>1300</u>	<u>18.2</u>	<u>1.5</u> gal
<u>1158</u>	<u>6.99</u>	<u>1321</u>	<u>18.6</u>	<u>3.0</u>
<u>1159</u>	<u>6.98</u>	<u>1326</u>	<u>18.7</u>	<u>4.5</u>
<u>1204</u>	<u>6.96</u>	<u>1322</u>	<u>18.7</u>	<u>5.5</u>

Weather Conditions fog

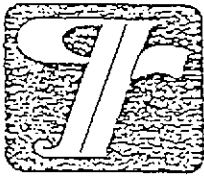
Water Color: clear Odor: strong

Sediment Description none

### LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-9</u>	<u>3x40ml</u>	<u>Y</u>	<u>HCL</u>	<u>GTEL</u>	<u>Geo DETX w/ HTRB</u>

Comments \_\_\_\_\_



WELL SAMPLING FIELD DATA SHEET

SAMPLER Fi Cline DATE 9-30-96  
 ADDRESS 7007 Dublin Blvd JOB # 5290.85  
 CITY Dublin CA SS# 9-5542

Well ID MW-10 Well Condition okay

Well Location Description \_\_\_\_\_  
 Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 35' ft  
 Depth to Liquid 22.63 ft

Volume	2" = 0.17	6" = 1.50	12" = 5.80
Factor	3" = 0.38		
(VF)	4" = 0.66		

# of casing 3x 12.97 x 0.17 x(VF) 2.2 #Estimated 6.6 gal.  
 Purge Volume

Purge Equipment Stack Sampling Equipment D. Bailer

Did well dewater No If yes, Time \_\_\_\_\_ Volume \_\_\_\_\_

Starting Time 9:00 Purging Flow Rate 1.1 gpm.  
 Sampling Time 9:09

Time	pH	Conductivity	Temperature	Volume
<u>9:02</u>	<u>6.27</u>	<u>500</u>	<u>19.8</u>	<u>2.2</u>
<u>9:04</u>	<u>6.23</u>	<u>521</u>	<u>20.0</u>	<u>4.4</u>
<u>9:06</u>	<u>6.28</u>	<u>531</u>	<u>20.0</u>	<u>6.6</u>
<u>9:09</u>	<u>6.25</u>	<u>530</u>	<u>20.0</u>	<u>7.0</u>

Weather Conditions Sunny clear warm  
 Water Color: Brown Odor: Mild  
 Sediment Description Light Sil

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>MW-10</u>	<u>3x40ml VOA</u>	<u>Y</u>	<u>HCL</u>	<u>6712L</u>	<u>Gas BTEX MIBB</u>

Comments \_\_\_\_\_

23





**Midwest Region**

4211 May Avenue  
Wichita, KS 67209  
(316) 945-2624  
(800) 633-7936  
(316) 945-0506 (FAX)

October 10, 1996

Deanna Harding  
GETTLER-RYAN  
6747 Sierra Ct.  
Suite J  
Dublin, CA 94568

RECEIVED

OCT 17 1996

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

---

RE: GTEL Client ID:	GTR01CHV08
Login Number:	W6100036
Project ID (number):	5290.85
Project ID (name):	CHEVRON/9-5542/7007 SAN RAMON VALLEY RD/DUBLIN/CA

---

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 10/02/96.

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. This report is to be reproduced only in full.

NEI/GTEL is certified by the California Department of Health Service under Certification Number 1845.

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.

*Justin Ward, Project Coordinator for*  
Terry R. Loucks  
Laboratory Director



ANALYTICAL RESULTS  
Volatile Organics

GTEL Client ID: GTR01CHV08  
 Login Number: W6100036  
 Project ID (number): 5290.85  
 Project ID (name): CHEVRON/9-5542/7007 SAN RAMON VALLEY RD/DUBLIN/CA

Method: EPA 8020A  
 Matrix: Aqueous

GTEL Sample Number	W6100036-01	W6100036-02	W6100036-03	W6100036-04
Client ID	TB-LB	MW-10	MW-8	MW-7
Date Sampled		09/30/96	09/30/96	09/30/96
Date Analyzed	10/10/96	10/10/96	10/10/96	10/10/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	0.6	< 0.5
BTEX (total)	--	ug/L	--	--	0.6	--
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	< 50

Notes:

**Dilution Factor:**

Dilution factor indicates the adjustments made for sample dilution.

**EPA 8020A:**

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS  
Volatile Organics

GTEL Client ID: GTR01CHV08  
 Login Number: W6100036  
 Project ID (number): 5290.85  
 Project ID (name): CHEVRON/9-5542/7007 SAN RAMON VALLEY RD/DUBLIN/CA

Method: EPA 8020A  
 Matrix: Aqueous

GTEL Sample Number	W6100036-05	W6100036-06	W6100036-07	W6100036-08
Client ID	MW-2	MW-6	MW-3	MW-9
Date Sampled	09/30/96	09/30/96	09/30/96	09/30/96
Date Analyzed	10/10/96	10/10/96	10/10/96	10/10/96
Dilution Factor	1.00	1.00	1.00	10.0

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	5.0	ug/L	< 5.0	6.3	10.	100
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	1300
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	36.
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	390
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	0.8	950
BTEX (total)	--	ug/L	--	--	0.8	2700
TPH as Gasoline	50	ug/L	< 50	50	620	15000

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS  
Volatile Organics

GTEL Client ID: GTR01CHV08  
 Login Number: W6100036  
 Project ID (number): 5290.85  
 Project ID (name): CHEVRON/9-5542/7007 SAN RAMON VALLEY RD/DUBLIN/CA

Method: EPA 8020A  
 Matrix: Aqueous

GTEL Sample Number	W6100036-09	W6100036-10	--	--
Client ID	MW-4	MW-1	--	--
Date Sampled	09/30/96	09/30/96	--	--
Date Analyzed	10/10/96	10/10/96	--	--
Dilution Factor	10.0	100.	--	--

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	5.0	ug/L	87.	380	--	--
Benzene	0.5	ug/L	3200	24000	--	--
Toluene	0.5	ug/L	1200	31000	--	--
Ethylbenzene	0.5	ug/L	710	2900	--	--
Xylenes (total)	0.5	ug/L	2200	14000	--	--
BTEX (total)	--	ug/L	7300	72000	--	--
TPH as Gasoline	50	ug/L	24000	190000	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

GTEL Client ID: GTR01CHV08  
Login Number: W6100036  
Project ID (number): 5290.85  
Project ID (name): CHEVRON/9-5542/7007 SAN RAMON VALLEY RD/DUBLIN/CA

QUALITY CONTROL RESULTS

Volatile Organics  
Method: EPA 8020A  
Matrix: Aqueous

Conformance/Non-Conformance Summary

(X = Requirements Met \* = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

Project ID (Number): 5290.85  
Project ID (Name): Chevron SS #9-5542  
7007 San Ramon Valley Rd.  
Dublin, CA  
Work Order Number: W6-10-0036  
Date Reported: 10-10-96

METHOD BLANK REPORT

Volatile Organics in Water  
EPA Method 8020A

Date of Analysis:

09-Oct-96

QC Batch No:

100996GC4-3

Analyte	Concentration, ug/L
MTBE	<5.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylene (total)	<0.5
TPH as Gasoline	<50

GTEL Client ID: GTR01CHV08                      QUALITY CONTROL RESULTS  
 Login Number: W6100036  
 Project ID (number): 5290.85  
 Project ID (name): CHEVRON/9-5542/7007 SAN RAMON VALLEY RD/DUBLIN/CA

Volatile Organics  
 Method: EPA 8020A  
 Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6100069-01		MS ID:MS10006901			
Analysis Date: 09-OCT-96		09-OCT-96			
Units: ug/L	Sample	Spike	MS	MS	Acceptability Limits
Analyte	Conc.	Added	Conc.	% Rec.	%Rec.
Benzene	< 0.5 (0.130)	20.0	16.6	82.4	67-110
Toluene	< 0.5 (0.000)	20.0	18.1	90.5	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	18.3	91.5	65-120
Xylenes (Total)	< 0.5 (0.000)	60.0	55.6	92.7	62-119

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

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QUALITY CONTROL RESULTS

Volatile Organics  
Method: EPA 8020A  
Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A	Acceptability Limits:		43-136%
100996GC4-1	CV100996204	Calibration Verifi	102.
100996GC4-3	BW1009964	Method Blank Water	123.
100996GC4-4	MS10006901	Matrix Spike	91.4
100996GC4-5	DP10006102	Duplicate	96.4
--	10003601	TB-LB	89.6
--	10003602	MW-10	85.8
--	10003603	MW-8	91.0
--	10003604	MW-7	91.7
--	10003605	MW-2	91.0
--	10003606	MW-6	90.2
--	10003607	MW-3	91.8
--	10003608	MW-9	90.0
--	10003609	MW-4	100.
--	10003610	MW-1	96.2

Notes:

\*: Indicates values outside of acceptability limits. See Nonconformance Summary.

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QUALITY CONTROL RESULTS

Volatile Organics  
Method: EPA 8020A  
Matrix: Aqueous

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:100996GC4-1		
Benzene	20.0	18.9	94.5	77-123%
Toluene	20.0	20.6	103.	77.5-122.5%
Ethylbenzene	20.0	21.0	105.	63-137%
Xylenes (Total)	60.0	64.1	107.	85-115%
TPH as Gasoline	500.	556.	111.	80-120%

Notes:

QC check source: Supelco #LA12389



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QUALITY CONTROL RESULTS

Volatile Organics  
Method: EPA 8020A  
Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020A	Units: ug/L	QC Batch: 100996GC4-5	GTEL Sample ID: W6100061-02	Client ID: Batch QC
MTBE	< 10.0	< 10.0	NA	20
Benzene	9.39	8.26	12.8	23.9
Toluene	< 1.00	< 1.00	NA	27.2
Ethylbenzene	< 1.00	< 1.00	NA	21.6
Xylenes (Total)	< 2.00	< 2.00	NA	22.0
TPH as Gasoline	487.	526.	7.70	20

Notes:

NA - The concentration of the analyte is less than the reporting limit.