GETTLER-RYAN INC.

November 1, 1996 Job #5259.80

Mr. Phillip Briggs
Chevron Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Third Quarter Groundwater Monitoring & Sampling Report
Chevron Service Station #9-0504
15900 Hesperian Boulevard
San Lorenzo, California

Dear Mr. Briggs:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On September 27, 1996, field personnel were on-site to monitor and sample eleven wells (C-1 through C-11) at Chevron Service Station #9-0504 located at 15900 Hesperian Boulevard in San Lorenzo, California.

Static groundwater levels were measured on September 27, 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 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 attached.

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

Sincerely,

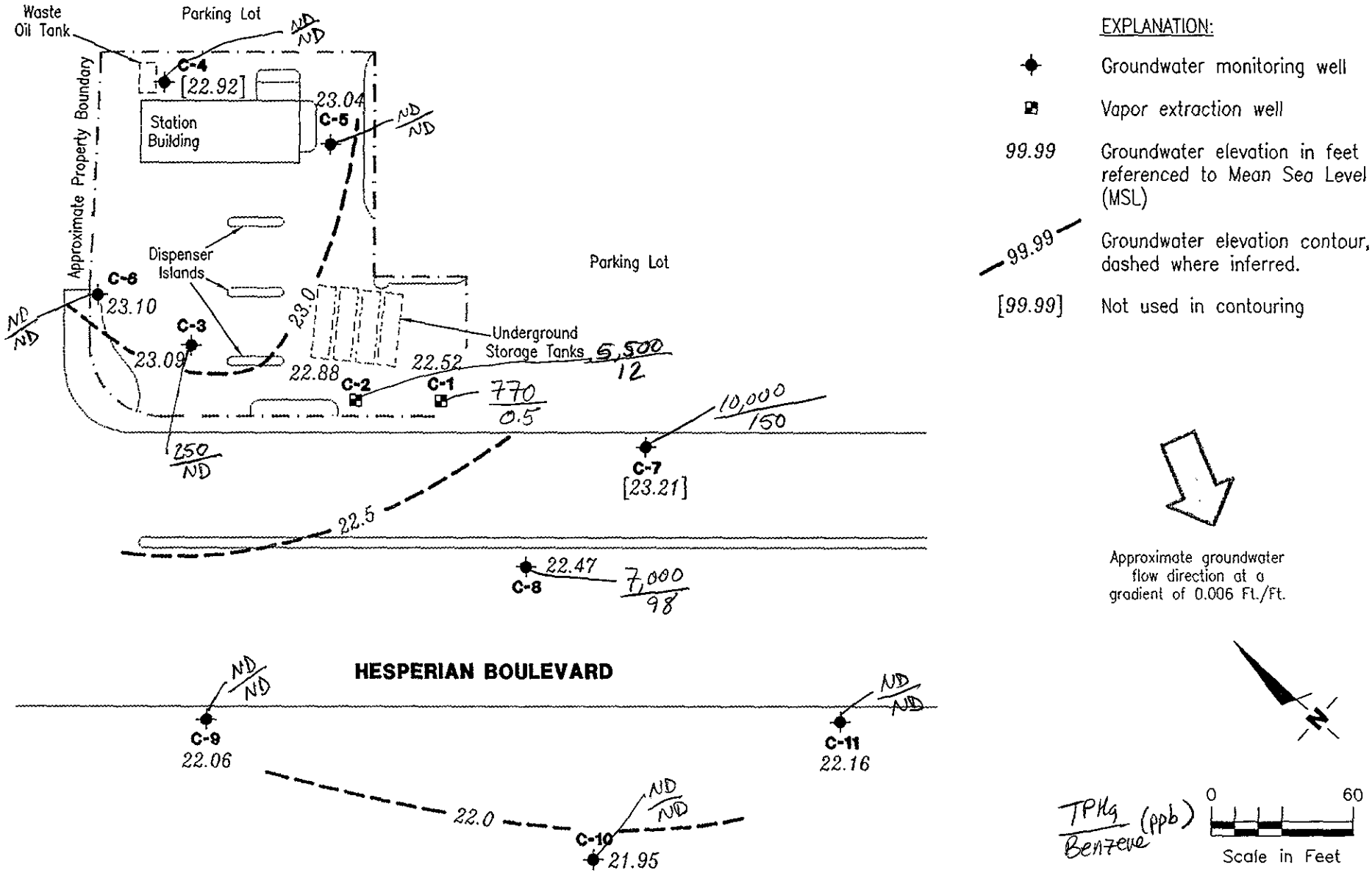
Deanna L. Harding
Project Coordinator

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

REGISTERED GEOLOGIST
Penny L. Silzer
No. 5523
STATE OF CALIFORNIA

DLH/PLS/dlh
5259.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



Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
Chevron Service Station No. 9-0504
15900 Hesperian Boulevard
San Lorenzo, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5259	PLS	September 27, 1996	

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<—			ppb				—>
C-1	6/6/89	—	—	0	5,100	250	170	200	990	—	—	—
	12/8/89	13.14	—	0.01	—	—	—	—	—	—	—	—
33.93[2]	9/7/90	14.04	19.91[1]	0.03	—	—	—	—	—	—	—	—
	12/20/90	13.87	20.07[1]	0.01	—	—	—	—	—	—	—	—
	3/15/91	11.40	22.53	0	37,000	220	53	53	1,900	—	—	—
	6/28/91	12.25	21.68	0	3,300	110	6.2	6.2	350	—	—	—
	9/26/91	14.02	19.91	0	3,200	220	6.9	6.9	710	—	—	—
	1/27/92	12.63	21.30	0	330	20	0.6	0.6	48	—	—	—
	4/20/92	10.43	23.50	0	2,700	130	3.4	3.4	690	—	—	—
	7/17/92	12.61	21.32	0	490	17	<0.5	<0.5	52	—	—	—
	1/20/93	9.42	24.51	0	—	—	—	—	—	—	—	—
	7/28/93	10.48	23.45	0	—	—	—	—	—	—	—	—
32.80	10/27/93	11.32	21.48	0	240	3.6	<0.5	11	23	—	—	—
	3/31/94	9.45	23.35	0	530	23	1.2	10	120	—	—	—
	6/8/94	9.93	22.87	0	990	15	1.5	42	89	—	—	—
	9/29/94[4]	—	—	—	—	—	—	—	—	—	—	—
	11/9/94[4]	—	—	—	—	—	—	—	—	—	—	—
	12/14/94[4]	—	—	—	—	—	—	—	—	—	—	—
	3/30/95	8.01	24.79	0	3,900	21	7.2	190	250	—	—	—
	6/30/95	9.82	22.98	0	1,400	3.1	0.8	54	95	—	—	—
	9/22/95	10.60	22.20	0	620[8]	0.7	<0.5	3.3	3.5	—	—	—
	12/11/95	10.30	22.50	0	210	2.4	<0.5	43	85	79	—	—
	3/8/96	7.65	25.15	0	750	2.1	<0.5	22	34	330	—	—
	6/21/96	9.28	23.52	0	2,800	9.0	<0.5	94	83	1,300	—	—
	9/27/96	**10.28**	**22.52**	**0**	**770**	**0.5**	**<0.5**	**5.1**	**6.1**	**580**	—	—
C-2	6/6/89	—	—	0	130,000	14,000	28,000	3,400	24,000	—	—	—
	12/8/89	13.44	—	0.15	—	—	—	—	—	—	—	—
34.21[2]	9/7/90	14.28	20.01[1]	0.10	—	—	—	—	—	—	—	—
	12/20/90	14.06	20.16[1]	0.01	—	—	—	—	—	—	—	—
	3/15/91	11.59	22.63[1]	0.01	1,200,000	4,700	16,000	13,000	140,000	—	—	—
	6/28/91	12.55	21.66	0	150,000	3,500	4,200	2,100	16,000	—	—	—
	9/26/91	14.20	20.01	0	4,900	220	290	130	880	—	—	—
	1/27/92	12.46	21.75	0	8,200	510	590	230	1,300	—	—	—
	4/20/92	10.24	23.97	0	19,000	1,700	1,700	930	4,700	—	—	—
	7/17/92	12.81	21.40	0	20,000	950	950	1,300	4,700	—	—	—
	1/20/93	8.79	25.42	0	—	—	—	—	—	—	—	—
33.46	10/27/93	12.36	21.10	0	1,600	63	5.8	5.9	190	—	—	—
	3/31/94	9.62	23.84	0	12,000	300	96	510	2,700	—	—	—
	6/8/94	9.98	23.48	0	8,700	140	35	250	1,500	—	—	—
	9/28/94[4]	—	—	—	—	—	—	—	—	—	—	—
	11/9/94[4]	—	—	—	—	—	—	—	—	—	—	—
	12/14/94[4]	—	—	—	—	—	—	—	—	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<---ppb--->							
C-2	3/30/95	7.69	25.77	0	1,400	17	5.4	52	240	—	—	—
(cont)	6/30/95	9.90	23.56	0	730	22	2.6	50	240	—	—	—
	9/22/95	10.61	22.85	0	2,100[8]	66	7.3	140	550	—	—	—
	12/11/95	10.38	23.08	0	3,700	23	<0.5	68	300	1,000	—	—
	3/8/96	7.70	25.76	0	2,200	19	<5.0	63	290	1,300	—	—
	6/21/96	9.37	24.09	0	2,200	23	1.1	70	260	2,300	—	—
	9/27/96	**10.58**	**22.88**	**0**	**5,500**	**12**	**0.6**	**30**	**110**	**2,200**	—	—
C-3	6/6/89	—	—	0	2,600	63	20	390	370	—	—	—
	12/8/89	—	—	0	680	6.0	1.0	31	58	—	—	—
35.46[2]	9/7/90	15.31	20.15	0	490	6.0	<0.5	41	120	—	—	—
(d)	9/7/90	—	—	0	460	6.0	<0.5	40	110	—	—	—
	12/20/90	15.17	20.29	0	100	5.0	<0.5	27	130	—	—	—
	3/6/91	13.27	22.19	0	1,300	7.0	<0.5	75	250	—	—	—
(d)	3/6/91	—	—	0	1,400	8.0	<0.5	76	250	—	—	—
	6/28/91	13.67	21.79	0	770	6.0	<0.5	81	71	—	—	—
(d)	6/28/91	—	—	0	990	5.5	<0.5	86	75	—	—	—
	9/26/91	15.32	20.14	0	1,400	7.9	<0.5	98	340	—	—	—
	1/27/92	13.91	21.55	0	150	0.7	<0.5	12	12	—	—	—
	4/20/92	11.66	23.80	0	1,600	9.3	1.0	190	370	—	—	—
	7/17/92	13.96	21.50	0	460	18	<0.5	20	52	—	—	—
	10/29/92	15.51	19.95	0	520	2.4	1.0	30	79	—	—	—
	1/20/93	10.99	24.47	0	4,200	7.4	<0.5	140	380	—	—	—
	5/3/93	10.97	24.49	0	1,300	6.8	3.2	71	170	—	—	—
	7/28/93	12.41	23.05	0	220	1.4	<0.5	17	39	—	—	—
	10/27/93	13.37	21.78	0	1,800	5.5	0.7	68	290	—	—	—
	3/31/94	11.56[5]	23.90	0	310	1.2	<0.5	19	54	—	—	—
	6/8/94	12.07	23.39	0	300	2.7	1.6	19	48	—	—	—
	9/29/94[5]	13.84	21.62	0	2,500	<25	<25	<25	220	—	—	—
	11/9/94[6]	—	—	0	170	<0.5	0.8	3.3	16	—	—	—
	12/14/94	11.85	23.61	0	510	3.2	1.4	28	60	—	—	—
	3/30/95	9.61	25.85	0	66	<0.5	<0.5	1.1	2.4	—	—	—
	6/30/95	11.50	23.96	0	1,500	1.9	8.1	100	300	—	—	—
	9/22/95	12.58	22.88	0	600[8]	0.7	<0.5	43	110	—	—	—
	12/11/95	12.55	22.91	0	670[9]	<0.5	<0.5	7.0	13	15	—	—
	3/8/96	9.66	25.80	0	3,600	7.5	33	130	400	1,100	—	—
	6/21/96	11.78	23.68	0	310	<0.5	<0.5	16	49	57	—	—
	9/27/96	**12.37**	**23.09**	**0**	**250**	**<0.5**	**<0.5**	**3.6**	**9.6**	**44**	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<———			ppb				———>
C-4	6/6/89	—	—	0	<50	<0.05	<1.0	<1.0	<3.0	—	—	—
	12/8/89	—	—	0	<500	<0.5	<0.5	<0.5	<0.5	—	—	—
35.78[2]	9/7/90	15.58	20.20	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	15.42	20.36	0	170	1.0	<0.5	<0.5	4.0	—	—	—
	3/6/91	13.54	22.24	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	13.93	21.85	0	<50	<0.5	<0.5	<0.5	<0.8	—	—	—
	9/26/91	15.64	20.14	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	15.64	—	0	<50	<0.5	<0.5	<0.5	—	—	—	—
	1/27/92	13.96	21.82	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	11.71	24.07	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	14.19	21.59	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	15.72	20.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	11.17	24.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	10.94	24.84	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/28/93	12.40	23.38	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
35.23	10/27/93	13.32	21.91	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94[4]	—	—	—	—	—	—	—	—	—	—	—
	6/8/94	11.92	23.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	13.76	21.47	0	<2,500	<25	<25	<25	<25	—	<0.5	ND[7]
	11/9/94[6]	—	—	0	<50	<0.5	<0.5	<0.5	<0.5	—	<0.5	ND[7]
	12/14/94	11.79	23.44	0	<50	2.1	3.0	1.9	3.7	—	1.8	ND[7]
	3/30/95	9.01	26.22	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	11.44	23.79	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	12.51	22.72	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	12.62	22.61	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	9.63	25.60	0	<50	<0.5	<0.5	<0.5	0.6	<5.0	—	—
	6/21/96	11.24	23.99	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	9/27/96	**12.31**	**22.92**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
C-5	6/6/89	—	—	0	<50	<0.05	<0.05	<1.0	<3.0	—	—	—
	12/8/89	—	—	0	<500	<0.5	<0.5	<0.5	<0.5	—	—	—
35.31[2]	9/7/90	15.10	20.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	14.94	20.37	0	80	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	13.06	22.25	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	13.46	21.85	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	15.14	20.17	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	13.31	22.00	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	11.10	24.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	13.73	21.58	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	15.20	20.11	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	10.72	24.59	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<———			ppb				———>
C-5	5/3/93	10.43	24.88	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
(cont)	7/28/93	11.81	23.50	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
34.61	10/27/93	12.68	21.93	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	11.00[5]	23.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	11.26	23.35	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	13.10	21.51	0	<2,500	<25	<25	<25	<25	—	—	—
	11/9/94[6]	—	—	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/14/94	11.37	23.24	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/30/95	8.97	25.64	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	10.83	23.78	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	11.89	22.72	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	11.78	22.83	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	9.02	25.59	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	6/21/96	10.64	23.97	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	9/27/96	**11.57**	**23.04**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
C-6	12/8/89	—	—	0	<500	<0.5	<0.5	<0.5	<0.5	—	—	—
36.89[2]	9/7/90	16.83	20.06	0	57	<0.5	<0.5	0.6	4.0	—	—	—
	12/20/90	16.66	20.23	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	14.80	22.09	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	15.16	21.73	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	16.82	20.07	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	15.44	21.45	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	13.17	23.72	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	15.44	21.45	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	16.98	19.91	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	12.47	24.42	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	—	—	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/28/93	13.86	23.03	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
36.57	10/27/93	14.85	21.72	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	13.00	23.57	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	13.44	23.13	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	14.88	21.69	0	<2,500	<25	<25	<25	<25	—	—	—
	11/9/94[6]	—	—	0	<50	<0.5	0.5	<0.5	<0.5	—	—	—
	12/14/94	12.99	23.58	0	<50	0.9	1.5	1.3	2.6	—	—	—
	3/30/95	10.77	25.80	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	12.62	23.95	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	13.65	22.92	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	13.68	22.89	0	140[10]	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	10.73	25.84	0	<50	<0.5	0.6	<0.5	<0.5	<5.0	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<———			ppb				———>
C-6	6/21/96	12.41	24.16	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
(cont)	**9/27/96**	**13.47**	**23.10**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
C-7	12/8/89	—	—	0	1,700	32	12	17	150	—	—	—
32.75[2]	9/7/90	13.02	19.73	0	880	84	23	46	180	—	—	—
	12/20/90	12.28	20.47	0	560	24	3.0	19	21	—	—	—
	3/6/91	16.92	15.83	0	240	25	2.0	4.0	26	—	—	—
	6/28/91	11.31	21.44	0	2,400	130	13	82	220	—	—	—
	9/26/91	12.28	20.47	0	8,100	47	35	350	1,200	—	—	—
	1/27/92	11.43	21.32	0	12,000	170	40	420	830	—	—	—
	4/20/92	9.28	23.47	0	1,200	80	11	90	110	—	—	—
	7/17/92	11.49	21.26	0	2,400	20	7.4	95	200	—	—	—
	10/29/92	13.05	19.70	0	69	1.3	<0.5	3.8	7.2	—	—	—
	1/20/93	8.69	24.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	8.68	24.07	0	2,400	29	8.6	140	210	—	—	—
	7/28/93	9.99	22.76	0	3,600	38	16	290	920	—	—	—
32.32	10/27/93	10.72	21.60	0	22,000	23	26	990	2,600	—	—	—
	3/31/94	9.11	23.21	0	2,300	45	7.0	130	190	—	—	—
	6/8/94	9.22	23.10	0	6,900	46	11	380	820	—	—	—
	9/29/94	11.32	21.00	0	11,000	10	11	620	810	—	—	—
	11/9/94[6]	—	—	0	7,800	33	18	570	1,100	—	—	—
	12/14/94	8.99	23.33	0	7,700	63	16	140	1,200	—	—	—
	3/30/95	7.28	25.04	0	4,100	64	18	170	280	—	—	—
	6/30/95	9.07	23.25	0	1,200	31	3.7	21	18	—	—	—
	9/22/95	10.05	22.27	0	1,800	64	5.7	30	38	—	—	—
	12/11/95	9.30	23.02	0	14,000	80	6.1	91	120	70	—	—
	3/8/96	7.33	24.99	0	2,300	57	8.4	110	180	37	—	—
	6/21/96	8.85	23.47	0	1,100	37	3.2	21	29	9.0	—	—
	9/27/96	**9.11**	**23.21**	**0**	**10,000**	**150**	**30**	**270**	**670**	**45**	—	—
C-8	12/8/89	—	—	0	4,800	62	11	95	180	—	—	—
33.82[2]	9/7/90	14.32	19.50	0	3,700	170	31	180	270	—	—	—
	12/20/90	14.20	19.61	0	3,900	120	20	130	180	—	—	—
	3/6/91	14.80	19.02	0	1,200	45	6.0	34	57	—	—	—
	6/28/91	12.65	21.17	0	6,900	180	46	340	640	—	—	—
	9/26/91	14.29	19.53	0	1,400	66	9.8	38	40	—	—	—
	1/27/92	12.60	21.22	0	3,600	100	26	170	260	—	—	—
	4/20/92	10.36	23.46	0	2,600	110	32	180	260	—	—	—
	7/17/92	12.88	20.94	0	1,100	34	5.9	35	52	—	—	—
	10/29/92	14.39	19.43	0	820	29	4.8	23	27	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<—ppb—>							
C-8	1/20/93	10.02	23.80	0	6,000	81	22	200	310	—	—	—
(cont)	5/3/93	9.75	24.07	0	11,000	75	96	880	2,600	—	—	—
	7/28/93	11.14	22.68	0	2,800	60	13	92	150	—	—	—
33.25	10/27/93	12.01	21.24	0	2,700	49	17	60	90	—	—	—
	3/31/94	10.27	22.98	0	190	8.6	1.7	9.1	11	—	—	—
	6/8/94	10.56	22.69	0	2,800	52	110	78	110	—	—	—
	9/29/94	12.42	20.83	0	3,700	120	20	120	85	—	—	—
	11/9/94[6]	—	—	0	3,200	82	44	160	110	—	—	—
	12/14/94	10.51	22.74	0	5,300	140	30	170	310	—	—	—
	3/30/95	8.44	24.81	0	3,900	86	19	180	210	—	—	—
	6/30/95	10.14	23.11	0	1,500	75	21	72	72	—	—	—
	9/22/95	11.20	22.05	0	3,400	94	24	110	110	—	—	—
	12/11/95	10.99	22.26	0	7,500	100	<0.5	160	120	130	—	—
	3/8/96	8.46	24.79	0	3,600	93	8.9	110	88	82	—	—
	6/21/96	9.97	23.28	0	3,200	69	6.8	100	88	19	—	—
	9/27/96	10.78	22.47	0	7,000	98	12	150	130	53	—	—
C-9/												
33.43[2]	9/7/90	14.06	19.37	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	14.03	19.40	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	12.12	21.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	12.41	21.02	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	14.02	19.41	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	12.53	20.90	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	10.22	23.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	12.64	20.79	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	14.20	19.23	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	9.72	23.71	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	9.55	23.66	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	7/28/93	10.98	22.45	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
32.97	10/27/93	11.98	20.99	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	10.17	22.80	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	10.53	22.44	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	12.40	20.57	0	<5,000	<50	<50	<50	<50	—	—	—
	11/9/94[6]	—	—	0	<50	<0.5	<0.5	<0.5	0.7	—	—	—
	12/14/94	10.49	22.48	0	69	1.1	2.2	3.4	7.8	—	—	—
	3/30/95	8.20	24.77	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	9.97	23.00	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	11.07	21.90	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	11.08	21.89	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	8.20	24.77	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<———			ppb				———>
C-9	6/21/96	9.81	23.16	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
(cont)	**9/27/96**	**10.91**	**22.06**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
C-10/												
31.63[2]	9/7/90	12.49	19.14	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	12.36	19.27	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	10.45	21.18	0	<50	<0.5	0.8	<0.5	0.8	—	—	—
	6/28/91	10.74	20.69	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	12.42	19.21	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	10.84	20.79	0	<50	<0.5	1.3	<0.5	<0.5	—	—	—
(d)	1/27/92	—	—	0	<50	<0.5	1.3	<0.5	<0.5	—	—	—
	4/20/92	8.55	23.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	11.02	20.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	12.40	19.23	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	8.14	23.49	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	7.92	23.71	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	7/28/93	9.36	22.27	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
31.16	10/27/93	10.30	20.86	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	8.45	22.71	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	8.85	22.31	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94[5]	10.70	20.46	0	<5,000	<50	<50	<50	<50	—	—	—
	11/9/94[6]	—	—	0	<50	<0.5	1.4	0.8	1.2	—	—	—
	12/14/94	8.61	22.55	0	110	3.9	5.4	4.3	11	—	—	—
	3/30/95	6.65	24.51	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	8.30	22.86	0	<50	1.5	1.5	<0.5	2.2	—	—	—
	9/22/95	9.41	21.75	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	9.27	21.89	0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	6.63	24.53	0	<50	<0.5	<0.5	<0.5	0.5	<5.0	—	—
	6/21/96	8.12	23.04	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	9/27/96	**9.21**	**21.95**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
C-11/												
31.58[2]	9/7/90	12.22	19.36	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	12.08	19.50	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	16.15	15.43	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	10.52	21.06	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	12.20	19.38	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	10.73	20.85	0	<50	<0.5	0.8	<0.5	<0.5	—	—	—
	4/20/92	8.56	23.02	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	10.78	20.80	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	12.07	19.51	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE	C	HVOCs
					<———			ppb				———>
C-11	1/20/93	7.97	21.61	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
(cont)	5/3/93	7.95	23.63	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	7/28/93	9.31	22.27	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
31.23	10/27/93	10.17	21.06	0	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	8.43	22.80	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	8.76	22.47	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/29/94	10.54	20.69	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	11/9/94	—	—	0	<50	<0.5	0.6	<0.5	0.7	—	—	—
	12/14/94	8.50	22.73	0	51	1.1	1.7	1.6	4.0	—	—	—
	3/30/95	6.85	24.38	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	8.34	22.89	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	9.30	21.93	0	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	9.01	22.22	0	<50	<0.5	<0.5	<0.5	1.1	1.1	—	—
	3/8/96	6.90	24.33	0	<50	<0.5	0.6	<0.5	1.6	<5.0	—	—
	6/21/96	8.10	23.13	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	9/27/96	**9.07**	**22.16**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
Trip Blank	9/7/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/20/90	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/6/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/28/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/26/91	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/27/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	4/20/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	7/17/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	10/29/92	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	1/20/93	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	5/3/93	—	—	—	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	7/28/93	—	—	—	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	10/27/93	—	—	—	<50	<0.5	<0.5	<0.5	<1.5	—	—	—
	3/31/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/8/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	11/9/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/14/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	3/30/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	6/30/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	9/22/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—
	12/11/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<0.5	—	—
	3/8/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	6/21/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0	—	—
	9/27/96	—	—	—	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	—	—
DTSC MCLs	—	—	—	—	—	NE	1.0	100	680	1,750	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, 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
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl-tertiary-butyl ether
C = Chloroform
HVOC = Halogenated Volatile Organic Compounds
DTSC = Department of Toxic Substances Control
MCLs = Maximum Contaminant Level
NE = Not established
(d) = duplicate
ppb = Parts per billion
--- = Not available/not applicable

ANALYTICAL METHODS:

TPH(G) = EPA Method 8015/5030
BTEX & MTBE = EPA Method 8020
HVOC's = EPA Method 8010

NOTES:

Analytical results and groundwater elevation data prior to 1995 were compiled from the quarterly groundwater monitoring reports prepared for Chevron by Sierra Environmental Servcies.

* A product thickness measured with an MMC flexi-dip interface probe.

[1] Groundwater Elevation = [(Top-of-casing elevation - depth to water) + (0.8 x hydrocarbon thickness)]. The assumed specific gravity for free-phase hydrocarbons is 0.8.
[2] Elevation of well box.
[3] Depth to water measured from top of well vault.
[4] Well inaccessible due to down-hole extraction equipment.
[5] Detection limit raised due to foaming sample.
[6] All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 9/29/94 event.
[7] Other HVOCs were not detected at detection limits of 0.5 - 1.0 ppb.
[8] Laboratory report indicates uncategorized compounds are not included in gasoline concentration.
[9] Laboratory report indicates gasoline + unidentified hydrocarbons >C8.
[10] Laboratory report indicates unidentified hydrocarbons >C12.

5259.TQM

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.

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline G. Sanchez | DATE: 9-27-96

ADDRESS: 15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-1 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" (3") in | Hydrocarbon Thickness: 0

Total Depth: 19' ft

Depth to Liquid: 10.28 ft

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

# of casing Volume: 3x 8.72 x 0.17 (0.38) x(VF) 3.3 | #Estimated purge Volume: 9.9 gal.

Purge Equipment: Grundfos / Suction | Sampling Equipment: D. Bailer

Did well dewater: NC | If yes, Time: ___ | Volume:

Starting Time: 1010 | Purging Flow Rate: 1.7 gpm.

Sampling Time: 1019

Time	pH	Conductivity	Temperature	Volume
1012	6.75	591	22.1	3.4
1014	6.74	606	22.0	6.8
1016	6.74	608	22.1	10.2
1019	6.73	602	22.0	11.0

Weather Conditions: Cloudy Cool

Water Color: Clear | Odor: Mild

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-1	3x40ml VOA	Y	HCL	STL	Gas/BTXE MTBE

Comments: DTW pulled for Sampling / Replace after

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline G. Sanchez | DATE: 9-27-96

ADDRESS: ~~#~~15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-2 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" (3") in | Hydrocarbon Thickness: 0

Total Depth: 20' ft

Depth to Liquid: 10.58 ft

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

# of casing Volume: 3x 9.42 x 0.17 (0.38) x(VF) 3.57 #Estimated purge Volume: 10.7 gal.

Purge Equipment: Grundfos / Suction | Sampling Equipment: D. Bailer

Did well dewater: | If yes, Time: | Volume:

Starting Time: 9:50 | Purging Flow Rate: 1.8 gpm.

Sampling Time:

Time	pH	Conductivity	Temperature	Volume
952	6.77	553	21.4	3.6
954	6.76	558	22.2	7.2
956	6.76	556	22.3	10.8
958	6.75	557	22.4	11.0

Weather Conditions: Cloudy cool

Water Color: Blackish | Odor: Mild

Sediment Description: Light Brown

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-2	3x40ml VOA	Y	HCL	GTEL	GASOLINE ANALYSIS

Comments: DHE pulled for sampling / Replaced after.

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline G-Sanchez | DATE: 9-27-96

ADDRESS: 15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-3 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" - (3") in | Hydrocarbon Thickness: C

Total Depth: 19' ft

Depth to Liquid: 12.37 ft

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

# of casing Volume: 3x | 6.63 | x 0.17 (0.38) | x(VF) 2.5 | #Estimated purge Volume: 7.5 gal.

Purge Equipment: Grundfos / (Suction) | Sampling Equipment: D. Bailer

Did well dewater: No | If yes, Time: | Volume:

Starting Time: 9:35 | Purging Flow Rate: 1.5 gpm.

Sampling Time:

Time	pH	Conductivity	Temperature	Volume
9:37	6.78	651	20.3	3
939	6.73	654	21.4	6
941	6.75	656	21.7	9
944	6.74	657	21.5	10

Weather Conditions: Okay

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-3	3x40ml VOA	Y	HCL	STL	Gasoline BTEX

Comments:

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline G. Sanchez | DATE: 9-27-96

ADDRESS: 15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-4 | Well Condition: okay

Well Location Description:

Well Diameter: 2" (3") in | Hydrocarbon Thickness: 0

Total Depth: 20' ft

Depth to Liquid: 12.31 ft

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

# of casing Volume: 3x | 7.69 | x 0.17 (0.38) x(VF) 2.9 | #Estimated purge Volume: 81 gal.

Purge Equipment: Grundfos / Suction | Sampling Equipment: D. Bailer

Did well dewater: No | If yes, Time: | Volume:

Starting Time: 9:06 | Purging Flow Rate: 1.5 gpm.

Sampling Time:

Time	pH	Conductivity	Temperature	Volume
908	6.93	633	20.2	3
910	6.86	636	22.2	6
912	6.87	631	22.1	9
914	6.88	635	22.2	10

Weather Conditions: Cloudy Cool

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-4	3x40ml VOA	Y	HCL	STL	Gasoline BTEX

Comments:

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: E. Cline G-Sanchez | DATE: 9-27-96

ADDRESS: 15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-5 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" (3") in | Hydrocarbon Thickness: 0

Total Depth: 15' ft

Depth to Liquid: 11.57' ft

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

# of casing Volume: 3x | 3.43 | x 0.17 (0.38) | x(VF) ~~0.58~~ 1.3 | #Estimated purge Volume: ~~4.25~~ 3.9 gal.

Purge Equipment: ~~Centrifugal / Suction~~ Bailer | Sampling Equipment: D. Bailer

Did well dewater: | If yes, Time: | Volume:

Starting Time: 8:48

Sampling Time: 8:54

Purging Flow Rate: gpm.

Time	pH	Conductivity	Temperature	Volume
850	~~6.52~~	678	23.1	~~0.5~~ 1.3
852	6.56	671	23.5	~~1.0~~ 2.6
854	6.58	672	23.4	~~1.5~~ 3.9

Weather Conditions: Cloudy Cool

Water Color:

Odor:

Sediment Description:

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-5	3x40ml VOA	Y	HCL	CTEL	Gasoline BTEX

Comments:

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline G. Sanchez DATE 9-27-96

ADDRESS #15900 Hesperian JOB # 5259.85

CITY San Lorenzo CA SS# 9-0504

Well ID C-6 Well Condition okay

Well Location Description

Well Diameter (2")-3" in Hydrocarbon Thickness 0

Total Depth 23' ft

Depth to Liquid 13.47 ft

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

# of casing Volume 3X 9.53 x (0.17) 0.38 x(VF) 1.6 #Estimated purge Volume 4.8 gal.

Purge Equipment Grundfos / Suction Sampling Equipment D. Bailer

Did well dewater NC If yes, Time ___ Volume

Starting Time 9:22 Purging Flow Rate 1 gpm.

Sampling Time

Time	pH	Conductivity	Temperature	Volume
9:22	6.70	685	21.6	2
9:24	6.70	688	22.6	4
9:26	6.70	686	22.9	6
9:29	6.65	682	21.9	7

Weather Conditions Cloudy cool

Water Color: Clear Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-6	3x40ml VOA	Y	HCL	GTEL	Gas/BTXE MTBE

Comments

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline G. Sanchez DATE 9-27-96

ADDRESS 15900 Hesperian JOB # 5259.85

CITY San Lorenzo CA SS# 9-0504

Well ID C-7 Well Condition OK

Well Location Description

Well Diameter 2"-3" in Hydrocarbon Thickness 0

Total Depth 24' ft

Depth to Liquid 9.11 ft

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

# of casing Volume 3x 14.89 x 0.17 0.38 x(VF) 2.5 #Estimated purge Volume 7.5 gal.

Purge Equipment Grundfos/Suction Sampling Equipment D. Bailer

Did well dewater NO If yes, Time ___ Volume

Starting Time 1010 Purging Flow Rate 1.5 gpm.

Sampling Time 1020

Time	pH	Conductivity	Temperature	Volume
1012	7.22	1227	19.1	3 gal
1014	7.16	1180	20.2	6 "
1016	7.14	1167	20.4	9 "
1020	7.14	1164	20.5	10 "

Weather Conditions Fog

Water Color: clear

Sediment Description none Odor: mild

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-7	3x40ml VOA	Y	HCL	CTEL	GASOLINE AMTBE

Comments

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline G. Sanchez | DATE: 9-27-96

ADDRESS: #15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-8 | Well Condition: OK

Well Location Description:

Well Diameter: (2") 3" in | Hydrocarbon Thickness: 0

Total Depth: 24' ft

Depth to Liquid: 10.78 ft

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

# of casing Volume: 3x 13.22 | (0.17) 0.38 x(VF) 2.2 | #Estimated purge Volume: 6-7 gal.

Purge Equipment: (Grundfos) / Suction | Sampling Equipment: D. Bailer

Did well dewater: No | If yes, Time: | Volume:

Starting Time: 1030 | Purging Flow Rate: 2.2 gpm.

Sampling Time: 1037

Time	pH	Conductivity	Temperature	Volume
1031	7.30	1013	19.6	2.2 gal
1032	7.18	1020	20.5	4.4
1033	7.15	1022	20.4	6.6
1037	7.14	1022	20.4	7.5

Weather Conditions: Fog

Water Color: clear | Odor: mild

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-8	3x40ml VOA	Y	HCL	GTEL	Gas/BTXE MTBE

Comments:

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline G. Sanchez | DATE: 9-27-96

ADDRESS: #15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-9 | Well Condition: OK

Well Location Description:

Well Diameter: (2")-3" in | Hydrocarbon Thickness: 0

Total Depth: 24' ft

Depth to Liquid: 10.91 ft

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

# of casing Volume: 3X | 13.09 | x (0.17) 0.38 | x(VF) 2.2 | #Estimated purge Volume: 6.6 gal.

Purge Equipment: Stack Pump / ~~Grundfos~~ / Suction | Sampling Equipment: D. Bailer

Did well dewater: No | If yes, Time: | Volume:

Starting Time: 9:57 | Purging Flow Rate: 2.2 gpm.

Sampling Time: 1000

Time	pH	Conductivity	Temperature	Volume
954	7.87	241	17.0	2.2 gal
955	7.85	221	16.7	4.4
956	7.82	220	16.5	6.6
1000	7.82	220	16.5	7.5 ✓

Weather Conditions: Fog

Water Color: clear | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-9	3x40ml VOA	Y	HCL	GTEL	Gas/BTXE MTBE

Comments:

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline G. Sanchez | DATE 9-27-96

ADDRESS ~~#~~15900 Hesperian | JOB # 5259.85

CITY San Lorenzo CA | SS# 9-0504

Well ID C-10 | Well Condition OK

Well Location Description

Well Diameter (2"-3") in | Hydrocarbon Thickness ~~0~~

Total Depth 24' ft

Depth to Liquid 9.21 ft

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

# of casing Volume 3x 14.79 x (0.17 0.38) x(VF) 2.5 = #Estimated purge Volume 7.5 gal.

Purge Equipment ~~Grundfos~~ Stack Pump / Suction | Sampling Equipment D. Bailer

Did well dewater No | If yes, Time ___ | Volume

Starting Time 9:30 | Purging Flow Rate 1.5 gpm.

Sampling Time 941

Time	pH	Conductivity	Temperature	Volume
9:32	7.29	1045	19.5	3 gal
9:34	7.25	1042	20.2	6
9:36	7.23	1041	20.0	9
9:41	7.22	1041	20.0	10 ↓

Weather Conditions Pc

Water Color: clear

Sediment Description none | Odor: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-10	3x40ml VOA	Y	HCL	GTEL	Gasoline BTEX

Comments

(10)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline G. Sanchez | DATE: 9-27-96

ADDRESS: 15900 Hesperian | JOB #: 5259.85

CITY: San Lorenzo CA | SS#: 9-0504

Well ID: C-11 | Well Condition: OK

Well Location Description:

Well Diameter: 2" - 3" in | Hydrocarbon Thickness: ~~0~~

Total Depth: 24' ft

Depth to Liquid: 9.07 ft

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

# of casing Volume: 3x 14.93 x ~~0.17~~ 0.38 x(VF) 2.5 | #Estimated purge Volume: 7-6 gal.

Purge Equipment: ~~Centrifugal~~ / Suction (Stack Pump) | Sampling Equipment: D. Bailer

Did well dewater: No | If yes, Time: | Volume:

Starting Time: 9:06 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 9:17

Time	pH	Conductivity	Temperature	Volume
9:08	6.89	1032	18.3	3 gal
9:10	7.08	1000	17.7	6
9:12	7.20	994	17.5	8
9:17	7.22	992	17.4	10

Weather Conditions: Fog

Water Color: clear | Odor: none

Sediment Description: none

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
C-11	3x40ml VOA	Y	HCL	CTEL	Gas/BTXE MTBE

Comments: Installed new Chevron lock

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

Chevron Facility Number 9-0504
Facility Address 15900 Hesperian Blvd San Lorenzo
Consultant Project Number 5259.85
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Deanna Harding
(Phone) 510 551-7555 (Fax Number) 510 551-7888

Chevron Contact (Name) Phil Briggs
(Phone) 842-9136
Laboratory Name GTEL
Laboratory Release Number 347200
Samples Collected by (Name) E. Cline Ce Sanchez
Collection Date 9-27-96
Signature E. Cline C. Sanchez

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	DO NOT BILL TB-LB ANALYSIS Remarks
TB-43	01	2	W	TB	←	HCl	Y	X								
C-11	02	3		G	917			X								
C-10	03				941			X								
C-9	04				1000			X								
C-5	05				854			X								
C-4	06				914			X								
C-6	07				929			X								
C-3	08				944			X								
C-7	09				1020			X								
C-8	10				1037			X								
C-2	11				958			X								
C-1	12				1019			X								no scale 1°C 7926501075

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	GTEL	9-30-96	D. Harding	G-R	9/30/96
D. Harding	G-R	9/30/96 14:20	John Wells	NEI/GTEL	9/30/96 14:20
John Wells	NEI/GTEL	9/30/96 15:50	[signature]		10/1/96 0830

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

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

October 9, 1996

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

RE: GTEL Client ID: GTR01CHV08
Login Number: W6100024
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 10/01/96.

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.

T. R. Loucks project coordinator for

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: GTR01CHV08
Login Number: W6100024
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6100024-01	W6100024-02	W6100024-03	W6100024-04
Client ID	TB-LB	C-11	C-10	C-9
Date Sampled		09/27/96	09/27/96	09/27/96
Date Analyzed	10/09/96	10/09/96	10/09/96	10/09/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
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	< 0.5	< 0.5
BTEX (total)	--	ug/L	--	--	--	--
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: W6100024
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6100024-05	W6100024-06	W6100024-07	W6100024-08
Client ID	C-5	C-4	C-6	C-3
Date Sampled	09/27/96	09/27/96	09/27/96	09/27/96
Date Analyzed	10/08/96	10/09/96	10/09/96	10/09/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 5.0	< 5.0	< 5.0	44.
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	3.6
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	9.6
BTEX (total)	--	ug/L	--	--	--	13.
TPH as Gasoline	50	ug/L	< 50	< 50	< 50	250

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: W6100024
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Method: EPA 8020A
Matrix: Aqueous

GTEL Sample Number	W6100024-09	W6100024-10	W6100024-11	W6100024-12
Client ID	C-7	C-8	C-2	C-1
Date Sampled	09/27/96	09/27/96	09/27/96	09/27/96
Date Analyzed	10/09/96	10/09/96	10/09/96	10/09/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	45.	53.	2200	580
Benzene	0.5	ug/L	150	98.	12.	0.5
Toluene	0.5	ug/L	30.	12.	0.6	<0.5
Ethylbenzene	0.5	ug/L	270	150	30.	5.1
Xylenes (total)	0.5	ug/L	670	130	110	6.1
BTEX (total)	--	ug/L	1100	390	150	12.
TPH as Gasoline	50	ug/L	10000	7000	5500	770

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: W6100024
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

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%
100796GC4-11	CV100896204	Calibration Verifi	94.1
100796GC4-15	MS10002407	Matrix Spike	98.4
100796GC4-16	DP10002408	Duplicate	95.7
100796GC4-3	BW1007964	Method Blank Water	75.4
--	10002401	TB-LB	95.5
--	10002402	C-11	94.9
--	10002403	C-10	96.6
--	10002404	C-9	96.3
--	10002405	C-5	96.7
--	10002406	C-4	97.0
--	10002407	C-6	95.9
--	10002408	C-3	99.4
--	10002409	C-7	129.
--	10002410	C-8	119.
--	10002411	C-2	100.
--	10002412	C-1	97.7

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

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QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Aqueous

Method Blank Results

QC Batch No: 100796GC4-3
Date Analyzed: 07-OCT-96

Analyte	Method:EPA 8020A Concentration: ug/L
MTBE	< 2.00
Benzene	< 0.400
Toluene	< 0.500
Ethylbenzene	< 0.400
Xylenes (Total)	< 0.800
TPH as Gasoline	< 50.0

Notes:

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6100024 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA 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:100796GC4-11			
Benzene	20.0	18.8	94.0	77-123%
Toluene	20.0	21.2	106.	77.5-122.5%
Ethylbenzene	20.0	21.6	108.	63-137%
Xylenes (Total)	60.0	60.6	101.	85-115%
TPH as Gasoline	500.	539.	108.	80-120%

Notes:
QC check source: Supelco #LA12389

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6100024 Volatile Organics
Project ID (number): 5259.85 Method: EPA 8020A
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020A Units: ug/L	QC Batch: 100796GC4-16	GTEL Sample ID: W6100024-08		Client ID: C-3
MTBE	44.2	44.7	1.12	20
Benzene	< 0.500	< 0.500	NA	23.9
Toluene	< 1.00	< 1.00	NA	27.2
Ethylbenzene	3.57	3.76	5.18	21.6
Xylenes (Total)	9.64	10.1	4.66	22.0
TPH as Gasoline	250.	242.	3.25	20

Notes:

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

GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W6100024
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

Matrix Spike(MS) Results

GTEL Sample ID:W6100024-07			MS ID:MS10002407		
Analysis Date: 09-OCT-96			09-OCT-96		
Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.100)	20.0	15.1	75.0	67-110
Toluene	< 0.5 (0.000)	20.0	15.8	79.0	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	15.6	78.0	65-120
Xylenes (Total)	< 0.5 (0.170)	60.0	47.9	79.6	62-119

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

GTEL Client ID: GTR01CHV08
Login Number: W6100024
Project ID (number): 5259.85
Project ID (name): CHEVRON/9-0504/15900 HESPERIAN BLVD/SAN LORENZO/CA

QUALITY CONTROL RESULTS

Volatile Org
Method: EPA
Matrix: Aq

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: