Chevron

97 JUN 13 AM 11:57

June 12, 1997

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing – Sales West
Phone 510 842 9500

Ms. Eva Chu
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Verify environment will support aerobic degradation first. Measure Fe SO4 NO O2 etc.

Re: Former Chevron Service Station #9-7127
Interstate 580 and Grantline Road
near Tracy , California

Dear Ms. Chu:

Enclosed is the Semi-Annual (Second Quarter) Groundwater Monitoring report for 1997, prepared by our consultant Gettler-Ryan Inc. for the above noted facility. Ground water samples were analyzed for TPH-g, BTEX and MtBE constituents. Monitoring wells MW-2, MW-5, MW-7 and MW-8 are sampled annually in May with the remaining wells sampled semi-annually in May and November. The water supply well is sampled annually in November.

Monitoring wells MW-2 and MW-7 were below method detection limits for all constituents with well MW-6 below method detection limits for the BTEX and MtBE constituents. Monitoring wells MW-4, MW-5 and MW-8 showed a small increase in the benzene constituent from the previous sampling event while wells MW-1 and MW-2 showed a significant increase. There is no explanation for this increase and it could be an anomaly with additional sampling required to verify the concentrations. Since these two wells continue to detect relatively high concentrations of the benzene constituent in relation to the other wells, Chevron recommends that an Oxygen Releasing Compound (ORC) be installed in both wells prior to the next sampling event. This should accelerate the natural attenuation process.

Groundwater depth varied from 11.28 to 28.22 feet below grade with a direction of flow to the northeast..

Chevron will continue to sample the wells based on the sampling program noted above. Chevron requests your approval to install the ORC's prior to the next sampling event. If you have any questions or comments call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Ms. Bette Owen, Chevron

Mr. John Moody
RWQCB-Central Valley Region
3443 Routier Road
Sacramento, CA 95827-3098

Mr. Ardavan Onsori
29310 Union City Blvd.
Union City, CA 94587

Mr. & Mrs. Joe Jess
Jess Ranch
Route 5, Box 704-A
Tracy, CA 95376

Mr. Ross Tinline
Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

GETTLER-RYAN INC.

June 11, 1997 Job #5251.80

Mr. Phil Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Re: Semi-Annual Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-7127
Interstate 580 and Grant Line Road
Tracy, California

Dear Mr. Briggs:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On May 6, 1997, field personnel were on-site to monitor and sample eight wells (MW-1 through MW-8) at the Former Chevron Service Station #9-7127 located at Interstate 580 and Grant Line Road in Tracy, California.

Static groundwater levels were measured on May 6, 1997. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the 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 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 Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

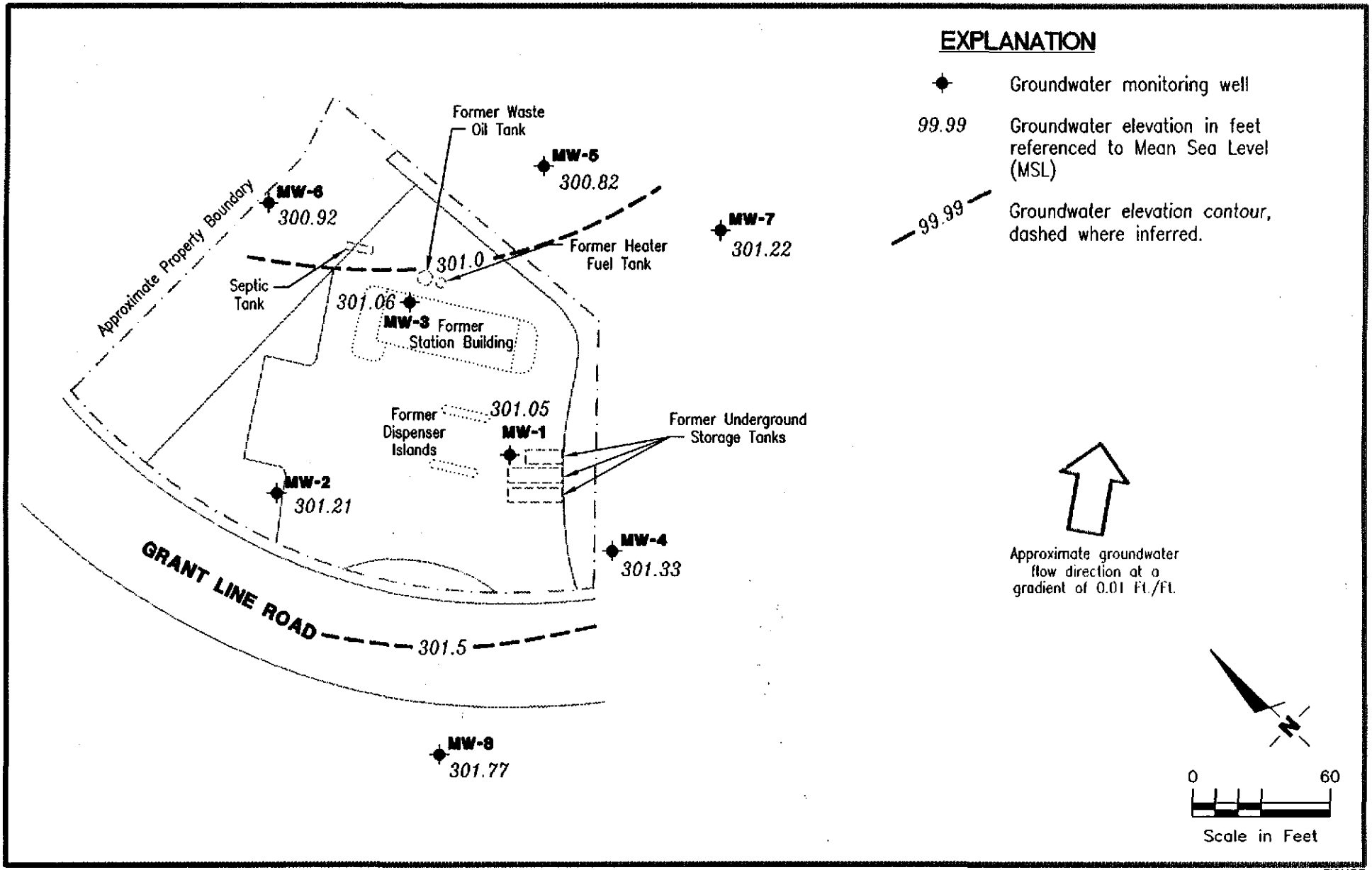
Deanna L. Harding
Project Coordinator

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

Stephen J. Carter
Senior Geologist, R.G. No. 5577

DLH/SJC/dlh
5251.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
Former Chevron Service Station No. 9-7127
Interstate 580 and Grant Line Road
Tracy, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5251		May 6, 1997	

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<--------		ppb			-------->
MW-1/										
329.17	2/15/94	29.77	299.40	0	99,000	20,000	24,000	2,000	9,800	---
	4/21/94	29.85	299.32	0	---	---	---	---	---	---
	6/1/94	29.92	299.25	0	56,000	12,000	15,000	1,100	5,800	---
	6/28/94	30.15	299.02	0	---	---	---	---	---	---
	7/19/94	20.30	308.87	0	---	---	---	---	---	---
	9/2/94	30.61	298.96[1]	0.5	---	---	---	---	---	---
	9/12/94	31.66	298.04[1]	0.66	---	---	---	---	---	---
	10/12/94	31.70	298.70[1]	1.54	---	---	---	---	---	---
	11/30/94	29.95	299.84[1]	0.77	---	---	---	---	---	---
	3/9/95	29.54	299.88	0.31	---	---	---	---	---	---
	4/18/95	29.01	300.16	0	---	---	---	---	---	---
	5/17/95	29.09	300.08	0	130,000	22,000	30,000	2,000	10,000	---
	6/7/95	29.24	299.93	0	---	---	---	---	---	---
	7/21/95	29.66	299.51	0	---	---	---	---	---	---
	8/15/95	29.87	299.30	0	41,000	9,400	12,000	1,400	7,700	---
	9/7/95	29.85	299.32	0	---	---	---	---	---	---
	10/9/95	30.01	299.16	0	---	---	---	---	---	---
	11/15/95	29.88	299.29	0	68,000	15,000	9,600	1,100	5,500	<2,000
	12/30/95	29.99	299.18	0	---	---	---	---	---	---
	1/29/96	29.32	299.85	Sheen	---	---	---	---	---	---
	2/27/96	28.51	300.66	0	520	48	71	<0.5	27	28
	3/5/96	28.44	300.73	0	---	---	---	---	---	---
	4/23/96	28.20	300.97	0	---	---	---	---	---	---
	5/30/96	28.47	300.70	0	57,000	15,000	11,000	1,100	4,900	<250
	6/19/96	28.43	300.74	0	---	---	---	---	---	---
	7/15/96	28.66	300.51	Sheen	---	---	---	---	---	---
	8/27/96	28.73	300.44	0	74,000	11,000	9,500	790	3,600	<120
	9/9/96	28.85	300.32	0	---	---	---	---	---	---
	10/28/96	28.53	300.64	Sheen	---	---	---	---	---	---
	11/11/96	28.77	300.40	0	69,000	13,000	9,100	810	3,200	<250
	5/6/97	**28.12**	**301.05**	**0**	**98,000**	**23,000**	**17,000**	**1,100**	**5,200**	**<500**
MW-2/										
327.22	2/15/94	27.09	300.13	0	83	21	6	1	3	---
	4/21/94	27.81	299.41	0	---	---	---	---	---	---
	6/1/94	27.98	299.24	0	<50	1.3	0.5	<0.5	<0.5	---
	6/28/94	28.17	299.05	0	---	---	---	---	---	---
	7/19/94	28.35	298.87	0	---	---	---	---	---	---
	9/2/94	28.52	298.70	0	82	13	16	3.6	14	---
	9/12/94	28.56	298.66	0	---	---	---	---	---	---
	10/12/94	28.62	298.60	0	---	---	---	---	---	---

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-2 (cont)	11/30/94	28.38	298.84	0	<50	3.6	4.5	1.0	4.5	—
	3/9/95	27.41	299.81	0	—	—	—	—	—	—
	4/18/95	26.79	300.43	0	—	—	—	—	—	—
	5/17/95	26.95	300.27	0	<50	<0.5	<0.5	<0.5	<0.5	—
	6/7/95	27.06	300.16	0	—	—	—	—	—	—
	7/21/95	27.47	299.75	0	—	—	—	—	—	—
	8/15/95	27.57	299.65	0	<50	<0.5	<0.5	<0.5	<0.5	—
	9/7/95	28.69	298.53	0	—	—	—	—	—	—
	10/9/95	27.85	299.37	0	—	—	—	—	—	—
	11/15/95	27.91	299.31	0	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/30/95	27.60	299.62	0	—	—	—	—	—	—
	1/29/96	27.16	300.06	0	—	—	—	—	—	—
	2/27/96	26.25	300.97	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/96	26.70	300.52	0	—	—	—	—	—	—
	4/23/96	25.82	301.40	0	—	—	—	—	—	—
	5/30/96	26.16	301.06	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	26.27	300.95	0	—	—	—	—	—	—
	7/15/96	26.46	300.76	0	—	—	—	—	—	—
	8/27/96	26.72	300.50	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/6/96	26.80	300.42	0	—	—	—	—	—	—
	10/28/96	26.83	300.39	0	—	—	—	—	—	—
	11/11/96	26.72	300.50	0	—	—	—	—	—	—
	5/6/97	**26.01**	**301.21**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-3/ 329.28	2/15/94	29.87	299.41	0	23,000	11,000	1,700	540	1,000	—
	4/21/94	29.96	299.32	0	—	—	—	—	—	—
	6/1/94	30.11	299.17	0	27,000	12,000	2,600	600	2,200	—
	6/28/94	30.31	298.97	0	—	—	—	—	—	—
	7/19/94	30.50	298.78	0	—	—	—	—	—	—
	9/2/94	30.61	298.67	0	34,000	16,000	4,100	770	3,000	—
	9/12/94	30.65	298.63	0	—	—	—	—	—	—
	10/12/94	30.74	298.54	0	—	—	—	—	—	—
	11/30/94	30.44	298.84	0	33,000	16,000	3,000	740	2,400	—
	3/9/95	29.53	299.75	0	—	—	—	—	—	—
	4/18/95	28.97	300.31	0	—	—	—	—	—	—
	5/17/95	29.19	300.09	0	27,000	10,000	760	490	1,000	—
	6/7/95	29.24	300.04	0	—	—	—	—	—	—
	7/21/95	29.70	299.58	0	—	—	—	—	—	—
	8/15/95	29.78	299.50	0	39,000[3]	13,000	2,900	700	1,700	—
	9/7/95	29.86	299.42	0	—	—	—	—	—	—
	10/9/95	30.02	299.26	0	—	—	—	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<---------- ppb ---------->					
MW-3	11/15/95	30.06	299.22	0	21,000	8,000	2,900	430	1,500	<1,000
(cont)	12/30/95	29.75	299.53	0	---	---	---	---	---	---
	1/29/96	29.22	300.06	0	---	---	---	---	---	---
	2/27/96	28.43	300.85	0	<2,500	5,000	500	220	130	710
	3/5/96	28.35	300.93	0	---	---	---	---	---	---
	4/23/96	28.10	301.18	0	---	---	---	---	---	---
	5/30/96	28.42	300.86	0	37,000	13,000	7,200	870	2,900	<120
	6/19/96	28.51	300.77	0	---	---	---	---	---	---
	7/15/96	28.63	300.65	0	---	---	---	---	---	---
	8/27/96	28.90	300.38	0	50,000	9,500	6,900	740	2,900	<120
	9/6/96	28.98	300.30	0	---	---	---	---	---	---
	10/28/96	28.98	300.30	0	---	---	---	---	---	---
	11/11/96	28.84	300.44	0	52,000	11,000	5,500	780	3,000	<250
	5/6/97	**28.22**	**301.06**	**0**	**93,000**	**23,000**	**15,000**	**1,400**	**6,200**	**<500**
MW-4/	5/21/93	---	---	---	<50	12	2	<0.5	1	---
	11/5/93	---	---	---	300	56	10	0.8	3	---
329.44	2/15/94	29.90	299.54	0	260	47	12	2	4	---
	4/21/94	29.99	299.45	0	---	---	---	---	---	---
	6/1/94	30.14	299.30	0	860	200	23	2.8	9.6	---
	6/28/94	30.32	299.12	0	---	---	---	---	---	---
	7/19/94	30.50	298.94	0	---	---	---	---	---	---
	9/2/94	30.62	298.82	0	1,700	250	27	6.4	15	---
	9/12/94	30.69	298.75	0	---	---	---	---	---	---
	10/12/94	30.75	298.69	0	---	---	---	---	---	---
	11/30/94	30.51	298.93	0	830	350	29	8.1	22	---
	3/9/95	29.61	299.83	0	---	---	---	---	---	---
	4/18/95	29.08	300.36	0	---	---	---	---	---	---
	5/17/95	29.22	300.22	0	470	200	2.2	0.9	2.1	---
	6/7/95	29.27	300.17	0	---	---	---	---	---	---
	7/21/95	29.72	299.72	0	---	---	---	---	---	---
	8/15/95	29.77	299.67	0	100	4.2	0.8	<0.5	<0.5	---
	9/7/95	29.85	299.59	0	---	---	---	---	---	---
	10/9/95	30.02	299.42	0	---	---	---	---	---	---
	11/15/95	30.05	299.39	0	270	94	9.4	0.77	4.3	27
	12/30/95	29.79	299.65	0	---	---	---	---	---	---
	1/29/96	29.31	300.13	0	---	---	---	---	---	---
	2/27/96	28.58	300.86	0	690	100	15	<0.5	2.0	79
	3/5/96	28.55	300.89	0	---	---	---	---	---	---
	4/23/96	28.15	301.29	0	---	---	---	---	---	---
	5/30/96	28.40	301.04	0	700	240	4.0	0.6	3.9	<5.0

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-4	6/19/96	28.47	300.97	0	---	---	---	---	---	---
(cont)	7/15/96	28.62	300.82	0	---	---	---	---	---	---
	8/27/96	28.85	300.59	0	<50	11	<0.5	<0.5	<0.5	<5.0
	9/6/96	28.92	300.52	0	---	---	---	---	---	---
	10/28/96	28.90	300.54	0	---	---	---	---	---	---
	11/11/96	28.78	300.66	0	240	57	1.4	0.7	1.8	<5.0
	5/6/97	**28.11**	**301.33**	**0**	**240**	**74**	**2.7**	**<0.5**	**1.6**	**<5.0**
MW-5	5/25/93	---	---	---	<50	<0.5	<0.5	<0.5	0.9	---
	11/5/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
312.88	2/15/94	25.10	287.78	0	<50	<0.5	1	<0.5	1	---
	4/21/94	13.21	299.67	0	---	---	---	---	---	---
	6/1/94	13.39	299.49	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/28/94	13.73	299.15	0	---	---	---	---	---	---
	7/19/94	13.80	299.08	0	---	---	---	---	---	---
	9/2/94	14.02	298.86	0	<50	3.2	1.8	<0.5	2.1	---
	9/12/94	14.03	298.85	0	---	---	---	---	---	---
	10/12/94	14.15	298.73	0	---	---	---	---	---	---
	11/30/94	13.91	298.97	0	<50[2]	<0.5[2]	<0.5[2]	<0.5[2]	<0.5[2]	---
	3/9/95	12.97	299.91	0	---	---	---	---	---	---
	4/18/95	12.48	300.40	0	---	---	---	---	---	---
	5/17/95	12.71	300.17	0	150	1.0	<0.5	<0.5	<0.5	---
	6/7/95	12.85	300.03	0	---	---	---	---	---	---
	7/21/95	13.30	299.58	0	---	---	---	---	---	---
	8/15/95	13.41	299.47	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/7/95	13.42	299.46	0	---	---	---	---	---	---
	10/9/95	13.61	299.27	0	---	---	---	---	---	---
	11/15/95	13.63	299.25	0	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/30/95	13.30	299.58	0	---	---	---	---	---	---
	1/29/96	12.75	300.13	0	---	---	---	---	---	---
	2/27/96	12.02	300.86	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/96	11.96	300.92	0	---	---	---	---	---	---
	4/23/96	11.77	301.11	0	---	---	---	---	---	---
	5/30/96	12.17	300.71	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	12.25	300.63	0	---	---	---	---	---	---
	7/15/96	12.39	300.49	0	---	---	---	---	---	---
	8/27/96	12.65	300.23	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/6/96	12.68	300.20	0	---	---	---	---	---	---
	10/28/96	12.72	300.16	0	---	---	---	---	---	---
	11/11/96	12.61	300.27	0	---	---	---	---	---	---
	5/6/97	**12.06**	**300.82**	**0**	**<50**	**2.2**	**2.0**	**<0.5**	**1.7**	**<5.0**

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-6										
312.20	12/30/95	13.65	298.55	0	—	—	—	—	—	—
	1/29/96	12.18	300.02	0	—	—	—	—	—	—
	2/27/96	11.45	300.75	0	70	1.1	<0.5	<0.5	<0.5	<5.0
	3/5/96	11.32	300.88	0	—	—	—	—	—	—
	4/23/96	11.12	301.08	0	—	—	—	—	—	—
	5/30/96	11.45	300.75	0	60	1.3	<0.5	<0.5	0.9	<5.0
	6/19/96	11.54	300.66	0	—	—	—	—	—	—
	7/15/96	11.76	300.44	0	—	—	—	—	—	—
	8/27/96	11.95	300.25	0	90	1.6	<0.5	<0.5	<0.5	<5.0
	9/6/96	12.02	300.18	0	—	—	—	—	—	—
	10/28/96	12.01	300.19	0	—	—	—	—	—	—
	11/11/96	11.90	300.30	0	110[4]	<0.5	<0.5	<0.5	<0.5	<5.0
	5/6/97	**11.28**	**300.92**	**0**	**170**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-7										
313.36	12/30/95	12.38	300.98	0	—	—	—	—	—	—
	1/29/96	13.14	300.22	0	—	—	—	—	—	—
	2/27/96	12.34	301.02	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/96	12.35	301.01	0	—	—	—	—	—	—
	4/23/96	12.13	301.23	0	—	—	—	—	—	—
	5/30/96	12.42	300.94	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	12.57	300.79	0	—	—	—	—	—	—
	7/15/96	12.70	300.66	0	—	—	—	—	—	—
	8/27/96	12.85	300.51	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/6/96	12.90	300.46	0	—	—	—	—	—	—
	10/28/96	12.84	300.52	0	—	—	—	—	—	—
	11/11/96	12.75	300.61	0	—	—	—	—	—	—
	5/6/97	**12.14**	**301.22**	**0**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-8										
329.91	12/30/95	30.30	299.61	0	—	—	—	—	—	—
	1/29/96	29.56	300.35	0	—	—	—	—	—	—
	2/27/96	28.68	301.23	0	<50	<0.5	<0.5	<0.5	<5.0	<5.0
	3/5/96	28.75	301.16	0	—	—	—	—	—	—
	4/23/96	28.25	301.66	0	—	—	—	—	—	—
	5/30/96	28.44	301.47	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/19/96	28.51	301.40	0	—	—	—	—	—	—
	7/15/96	28.67	301.24	0	—	—	—	—	—	—
	8/27/96	28.92	300.99	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/6/96	28.99	300.92	0	—	—	—	—	—	—
	10/28/96	29.06	300.85	0	—	—	—	—	—	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-8	11/11/96	28.98	300.93	0	—	—	—	—	—	—
(cont)	5/6/97	28.14	301.77	0	<50	3.6	3.1	0.7	2.5	<5.0
Supply Well	11/15/95	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/11/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Trip Blank										
TB-LB	2/15/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	6/1/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	9/2/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	11/30/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	5/17/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	8/15/95	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—
	11/15/95	—	—	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	2/27/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/30/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/27/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	11/11/96	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/6/97	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Bailer Blank										
BB	2/15/94	—	—	—	<50	<0.5	<0.5	<0.5	<0.5	—

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, 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
ppb = Parts per billion
--- = Not analyzed/Not applicable

ANALYTICAL METHODS:

TPH(G) = EPA Method 8015/5030
BTEX = EPA Method 8020
MTBE = EPA Method 8020

NOTES:

All top of casing elevations were surveyed by Tronoff Land Surveying, Davis, California on November 2, 1993.

Water level elevation data and laboratory analytical results prior to May 17, 1995, were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

1 GWE corrected for the presence of free-phase hydrocarbons using: GWE = [(TOC-DTW) + (0.8)(Product Thickness)]. 0.8 is the assumed specific gravity of free-phase hydrocarbons.

2 Estimated concentration. TFT surrogate recovery demonstrated sample specific matrix effect. Benzene and Toluene are estimated values due to low recovery of (TFT) surrogate. The (BFB) surrogate had acceptable recovery. Low surrogate recovery can be attributed to sample effervescence (GTEL).

3 Laboratory reported data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.

4 Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern.

5251.tqm

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. 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 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: F. Cline DATE: 5-6-97

ADDRESS: I-580 @ Grant Line Rd JOB #: 5251.85

CITY: Tracy CA SS#: 9-7127

Well ID: MW-1 Well Condition: okay

Well Location Description:

Well Diameter: 4" in Hydrocarbon Thickness: 0

Total Depth: 40' ft

Depth to Liquid: 28.12 ft

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

# of casing Volume: 3x 11.88 x 0.17 0.66 x(VF) 7.8 #Estimated purge Volume: 23.5 gal.

Purge Equipment: 2-Stack Sampling Equipment: Di Bail

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

Starting Time: 13:42 Purging Flow Rate: 2.6 gpm.

Sampling Time: 1354

Time	pH	Conductivity	Temperature	Volume
1345	7.16	373	22.1	7.8
1348	7.15	356	22.1	15.6
13:51	7.14	355	22.7	23.4
13:54	7.15	356	22.6	24.0

Weather Conditions: Clear Breezy

Water Color: Clear Odor: Mild

Sediment Description: N/a

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-1	3x40ml voa	Y	HCl	GTEL	Gas BTXE MTBE

Comments: Removed skimmer. No product. Replaced skimmer after pursing & sampling

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 5-6-97

ADDRESS I-580 @ Grant Line Rd JOB # 5251.85

CITY Tracy CA SS# 9-7127

Well ID MW-2 Well Condition Okay

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 35' ft

Depth to Liquid 26.01 ft

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

# of casing Volume 3x 11.99 x 0.17 x(VF) 2.0 #Estimated purge Volume 6.1 gal.

Purge Equipment Stack Sampling Equipment Disposable

Did well dewater No If yes, Time ___ Volume ___

Starting Time 1209 Purging Flow Rate 1.0 gpm.

Sampling Time 1307

Time	pH	Conductivity	Temperature	Volume
1301	6.81	279	23.8	2
1303	6.86	278	23.0	4
1305	6.88	275	22.8	6
1307	6.90	276	22.6	7

Weather Conditions Clear Warm Breezy

Water Color: Clear Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-2	3x40ml vod	Y	HCl	CTKL	Gas BTEX MTBE

Comments

(7)

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline — DATE: 5-6-97

ADDRESS: I-580 @ Grant Line Rd — JOB #: 5251.85

CITY: Tracy CA — SS#: 9-7127

Well ID: MW-3 — Well Condition: Okay

Well Location Description:

Well Diameter: 2" in — Hydrocarbon Thickness: 0

Total Depth: 40' ft

Depth to Liquid: 28.22 ft

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

# of casing Volume: 3x 11.78 x 0.17 x(VF) 2.0 #Estimated purge Volume 6.0 gal.

Purge Equipment: Stack — Sampling Equipment: Dispo bailer

Did well dewater: N/C — If yes, Time: — Volume:

Starting Time: 13:26 — Purging Flow Rate: 1 gpm.

Sampling Time: 13:34

Time	pH	Conductivity	Temperature	Volume
1328	6.81	358	22.4	2
1330	6.85	369	22.1	4
1332	6.84	370	22.3	6
1334	6.85	369	22.2	6

Weather Conditions: Clear Breezy

Water Color: Clear — Odor: Mild

Sediment Description: N/a

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-3	3 x 40ml VOA	Y	HCl	GTEL	Gas BTEX MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 5-6-97

ADDRESS: I-580 @ Grant Line Rd | JOB #: 5251.85

CITY: Tracy CA | SS#: 9-7127

Well ID: MW-4 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 40' ft

Depth to Liquid: 28.11 ft

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

# of casing Volume: 3x 11.89 x 0.17 x(VF) 2.02 #Estimated purge Volume 6.06 gal.

Purge Equipment: Stack | Sampling Equipment: Dr Bailer

Did well dewater: NO | If yes, Time: ___ | Volume: ___

Starting Time: 13:11

Sampling Time: 1319

Purging Flow Rate: 1 gpm.

Time	pH	Conductivity	Temperature	Volume
13:13	7.01	310	23.0	2
13:15	7.32	338	21.8	4
13:17	7.22	335	21.8	6
13:19	7.23	336	22.0	7

Weather Conditions: Clear Windy warm

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-4	3x40ml VOA	Y	HCl	CTEL	Gas BTEX MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 5-6-97

ADDRESS: I-580 @ Grant Line Rd | JOB #: 5251.85

CITY: Tracy CA | SS#: 9-7127

Well ID: MW-5 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 28 ft

Depth to Liquid: 12.06 ft

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

# of casing Volume: 3x 15.94 x 0.17 x(VF) 2.7 #Estimated purge Volume: 8.1 gal.

Purge Equipment: Stack | Sampling Equipment: Dipbailer

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

Starting Time: 1202 | Purging Flow Rate: 1 gpm.

Sampling Time: 1214

Time	pH	Conductivity	Temperature	Volume
1205	7.77	376	20.6	3
1208	7.82	387	20.6	6
1211	7.83	384	20.5	9
1214	7.84		20.6	10

Weather Conditions: clear Breezy

Water Color: clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-5	3x40ml VOA	Y	HCl	GTEL	Cons BTEX MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 5-6-97

ADDRESS: I-580 @ Grant Line Rd | JOB #: 5251.85

CITY: Tracy CA | SS#: 9-7127

Well ID: MW-6 | Well Condition: okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 29' ft

Depth to Liquid: 11.28 ft

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

# of casing Volume: 3x 17.72 x 0.17 x(VF) 3.0 #Estimated purge Volume: 90 gal.

Purge Equipment: Stack | Sampling Equipment: Disalle

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

Starting Time: 12:34 | Purging Flow Rate: 1 gpm.

Sampling Time: 12:45

Time	pH	Conductivity	Temperature	Volume
1237	7.16	300	21.2	3
1240	7.20	317	20.2	6
1243	7.24	310	20.4	9
1245	7.22	314	20.3	12

Weather Conditions: Warm clear Breezy

Water Color: Clear | Odor: None

Sediment Description: No

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-6	3x40ml VOA	Y	HCl	CTEL	Gas BTEX MTBE

Comments:

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 5-6-97

ADDRESS 3-580 @ Grant Line Rd JOB # 5251.85

CITY Tracy CA SS# 9-7127

Well ID MW-7 Well Condition Clay

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 28 ft

Depth to Liquid ~~12.08~~ 12.14 ft

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

# of casing Volume 3x 15.86 x 0.17 x(VF) 2.7 #Estimated purge Volume 8.1 gal.

Purge Equipment Stack Sampling Equipment Disable

Did well dewater NC If yes, Time ___ Volume ___

Starting Time 12:15 Purging Flow Rate 1 gpm.

Sampling Time 1227

Time	pH	Conductivity	Temperature	Volume
1218	7.90	352	20.6	3
1221	7.96	366	20.3	6
1224	7.90	368	20.5	9
1227	7.91	365	20.5	10

Weather Conditions Clear Breezy Warm

Water Color: Clear Odor: None

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-7	3x40ml VOA	Y	HCl	GTEL	Gas BTEX MTBE

Comments

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 5-6-97

ADDRESS 3-580 @ Grant Line Rd JOB # 5251.85

CITY Tracy CA SS# 9-7127

Well ID MW-6 Well Condition Clay

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 41.9 ft

Depth to Liquid 28.14 ft

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

# of casing Volume 3x 13.76 x 0.17 x(VF) 2-3 #Estimated purge Volume 7.01 gal.

Purge Equipment Stack Sampling Equipment Disalle

Did well dewater N/C If yes, Time ___ Volume ___

Starting Time 11:42 Purging Flow Rate 0.8 gpm.

Sampling Time 1154

Time	pH	Conductivity	Temperature	Volume
1142	7.85	246	27.8	2.4
1148	7.68	223	26.5	4.8
1151	7.55	221	26.3	7.2
1154	7.66	222	26.2	9.6

Weather Conditions Clear Breezy

Water Color: Clear Odor: None

Sediment Description N/A

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-8	3x40ml VOA	Y	HCl	CTKL	8260 BTEX MTBE

Comments

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

Chevron Facility Number #9-7127
Facility Address I-580 & Grant Line Rd., Tracy, CA
Consultant Project Number 5251.80
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Deanna Harding
(Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) Mr. Phil Briggs
(Phone) (510) 842-9136
Laboratory Name NEI/GTEL Service Code: ZZ02790
Laboratory Service Order # 9033199
Samples Collected by (Name) F. Cline
Collection Date 5-6-97
Signature

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 (8020)	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)						Remarks
TB-LB	01	2	W	TB	—	Ice	Y	X													DO NOT BILL TB-LB ANALYSIS
MW-8	02	3		G	1154																
MW-5	03				1214																
MW-7	04				1221																
MW-2	05				1307																
MW-6	06				1280																
MW-4	07				1319																
MW-3	08				1339																
MW-1	09				1354																
	3																				

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	5/7/97 0800	W. Harding	G-R Inc.	5/7/97
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
W. Harding	G-R	5/8/97 1440	Dee Webb	NEI/GTEL	5/8/97 1440
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
Dee Webb	NEI/GTEL	5/8/97 1700	Sammy Nielsen		5/10/97 0900

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

COC-3.DWG/03 91/mCH

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

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

May 15, 1997

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

RE: NEI/GTEL Client ID: GTR01CHV08
Login Number: W7050169
Project ID (number): 5251.80
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Dear Deanna Harding:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/10/97.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/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 2147.

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

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

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

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: GTR01CHV08
Login Number: W7050169
Project ID (number): 5251.80
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020A
Matrix: Aqueous

NEI/GTEL Sample Number	W7050169-01	W7050169-02	W7050169-03	W7050169-04
Client ID	TB-LB	MW-8	MW-5	MW-7
Date Sampled		05/06/97	05/06/97	05/06/97
Date Analyzed	05/12/97	05/12/97	05/12/97	05/12/97
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	3.6	2.2	< 0.5
Toluene	0.5	ug/L	< 0.5	3.1	2.0	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	0.7	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	2.5	1.7	< 0.5
BTEX (total)	--	ug/L	--	9.9	5.9	--
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

NEI/GTEL Client ID: GTR01CHV08
Login Number: W7050169
Project ID (number): 5251.80
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020A
Matrix: Aqueous

NEI/GTEL Sample Number	W7050169-05	W7050169-06	W7050169-07	W7050169-08
Client ID	MW-2	MW-6	MW-4	MW-3
Date Sampled	05/06/97	05/06/97	05/06/97	05/06/97
Date Analyzed	05/12/97	05/12/97	05/12/97	05/13/97
Dilution Factor	1.00	1.00	1.00	100.

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 500
Benzene	0.5	ug/L	< 0.5	< 0.5	74.	23000
Toluene	0.5	ug/L	< 0.5	< 0.5	2.7	15000
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	1400
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	1.6	6200
BTEX (total)	--	ug/L	--	--	78.	46000
TPH as Gasoline	50	ug/L	< 50	170	240	93000

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

NEI/GTEL Client ID: GTR01CHV08
Login Number: W7050169
Project ID (number): 5251.80
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA

Method: EPA 8020A
Matrix: Aqueous

NEI/GTEL Sample Number	W7050169-09	--	--	--
Client ID	MW-1	--	--	--
Date Sampled	05/06/97	--	--	--
Date Analyzed	05/13/97	--	--	--
Dilution Factor	100.	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
MTBE	5.0	ug/L	< 500	--	--	--
Benzene	0.5	ug/L	23000	--	--	--
Toluene	0.5	ug/L	17000	--	--	--
Ethylbenzene	0.5	ug/L	1100	--	--	--
Xylenes (total)	0.5	ug/L	5200	--	--	--
BTEX (total)	--	ug/L	46000	--	--	--
TPH as Gasoline	50	ug/L	98000	--	--	--

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.

NEI/GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W7050169 Volatile Organics
Project ID (number): 5251.80 Method: EPA 8020A
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A		Acceptability Limits:	43-136%
051297GC5-1	CV051297205	Calibration Verifi	117.
051297GC5-2	BW0512975	Method Blank Water	111.
051297GC5-3	DP05016908	Duplicate	82.6
051297GC5-4	LW0512975	Laboratory Control	116.
051297GC5-5	LWD0512975	LCS Water Duplicat	119.
051297GC5-6	DP05017209	Duplicate	124.
051297GC5-7	MS05017202	Matrix Spike	115.
--	05016901	TB-LB	107.
--	05016902	MW-8	114.
--	05016903	MW-5	114.
--	05016904	MW-7	106.
--	05016905	MW-2	105.
--	05016906	MW-6	118.
--	05016907	MW-4	122.
--	05016908	MW-3	85.4
--	05016909	MW-1	86.6

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

Project ID (Number): 5251.80
Project ID (Name): Chevron SS #9-7127
I-580 @ Grant Line Rd.
Tracy, CA
Work Order Number: W7-05-0169
Date Reported: 05-15-97

METHOD BLANK REPORT

Volatile Organics in Water
EPA Method 8020A

Date of Analysis: 12-MAY-97 QC Batch No: 051297GC5-2

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

NEI/GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W7050169 Volatile Organics
Project ID (number): 5251.80 Method: EPA 8020A
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/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:051297GC5-1			
Benzene		20.0	18.5	92.5	77-123%
Toluene		20.0	18.4	92.0	77.5-122.5%
Ethylbenzene		20.0	17.2	86.0	63-137%
Xylenes (Total)		60.0	56.1	93.5	85-115%
TPH as Gasoline		500.	464.	92.8	80-120%

Notes:
QC check source: Supelco #LA12389

NEI/GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W7050169 Volatile Organics
Project ID (number): 5251.80 Method: EPA 8020A
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8020A Units: ug/L	**QC Batch: 051297GC5-3**	**GTEL Sample ID: W7050169-08**		**Client ID: MW-3**
MTBE	< 1000	< 1000	NA	20
Benzene	22700	22100	2.68	23.9
Toluene	15300	15000	1.98	27.2
Ethylbenzene	1400	1350	3.64	21.6
Xylenes (Total)	6220	6080	2.28	22.0
TPH as Gasoline	92700	91100	1.74	20
EPA 8020A Units: ug/L	**QC Batch: 051297GC5-6**	**GTEL Sample ID: W7050172-09**		**Client ID: Batch QC**
MTBE	< 10.0	10.1	1.40	20
Benzene	41.7	38.6	7.72	23.9
Toluene	< 1.00	< 1.00	NA	27.2
Ethylbenzene	10.1	8.89	12.7	21.6
Xylenes (Total)	7.14	6.66	6.96	22.0
TPH as Gasoline	3160	3470	9.35	20

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

NEI/GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W7050169 Volatile Organics
Project ID (number): 5251.80 Method: EPA 8020A
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W7050172-02 MS ID:MS05017202
Analysis Date: 12-MAY-97 13-MAY-97

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.000)	20.0	17.0	85.0	67-110
Toluene	< 0.5 (0.000)	20.0	16.6	83.0	68-115
Ethylbenzene	< 0.5 (0.000)	20.0	15.2	76.0	65-120
Xylenes (Total)	< 0.5 (0.000)	60.0	50.5	84.2	62-119

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

NEI/GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W7050169 Volatile Organics
Project ID (number): 5251.80 Method: EPA 8020A
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA Matrix: Aqueous

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8020A **Units: ug/L**		**QC Batch:051297GC5-5**						
Benzene	20.0	15.5	77.5	16.6	83.0	6.85	20	39-150%
Toluene	20.0	15.5	77.5	16.5	82.5	6.25	20	46-148%
Ethylbenzene	20.0	14.0	70.0	15.1	75.5	7.56	20	32-160%
Xylenes (Total)	60.0	47.0	78.3	50.6	84.3	7.38	20	51-145%

Notes:

NEI/GTEL Client ID: GTR01CHV08 QUALITY CONTROL RESULTS
Login Number: W7050169 Volatile Organics
Project ID (number): 5251.80 Method: EPA 8020A
Project ID (name): CHEVRON/9-7127/I-580 @ GRANT LINE RD/TRACY/CA 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: