Chevron

August 25, 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

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

Dear Ms. Chu:

Enclosed is the Groundwater Monitoring and Sampling report for bio-parameters that was prepared by our consultant Gettler-Ryan Inc. for the above noted facility. This report was at your verbal request of June 18, 1997 to analyze the monitoring wells and supply well for the bio-parameters of dissolved oxygen, oxidation-reduction potential, alkalinity, nitrate, sulfate, phosphate and ferrous iron.

While sampling for the bio-parameters, the pH, temperature and conductivity were recorded for each well and the supply well, while the ground water depth was recorded for each well. No TPH-g, BTEX and MtBE constituents were analyzed for at this time, the next sampling event for these constituents will be in November.

Groundwater depth varied from 11.68 to 28.58 feet below grade with a direction of flow to the northeast..

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.

August 21, 1997 Job #5251.80

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

Re: 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 groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On July 27, 1997, field personnel were on-site to monitor and sample eight wells (MW-1 through MW-8) and one water supply well, 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 July 27, 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. Field Parameters and Analytical Results are presented in Table 2. 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 Sequoia Analytical. Analytical results are presented in Tables 1 and 2. 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,

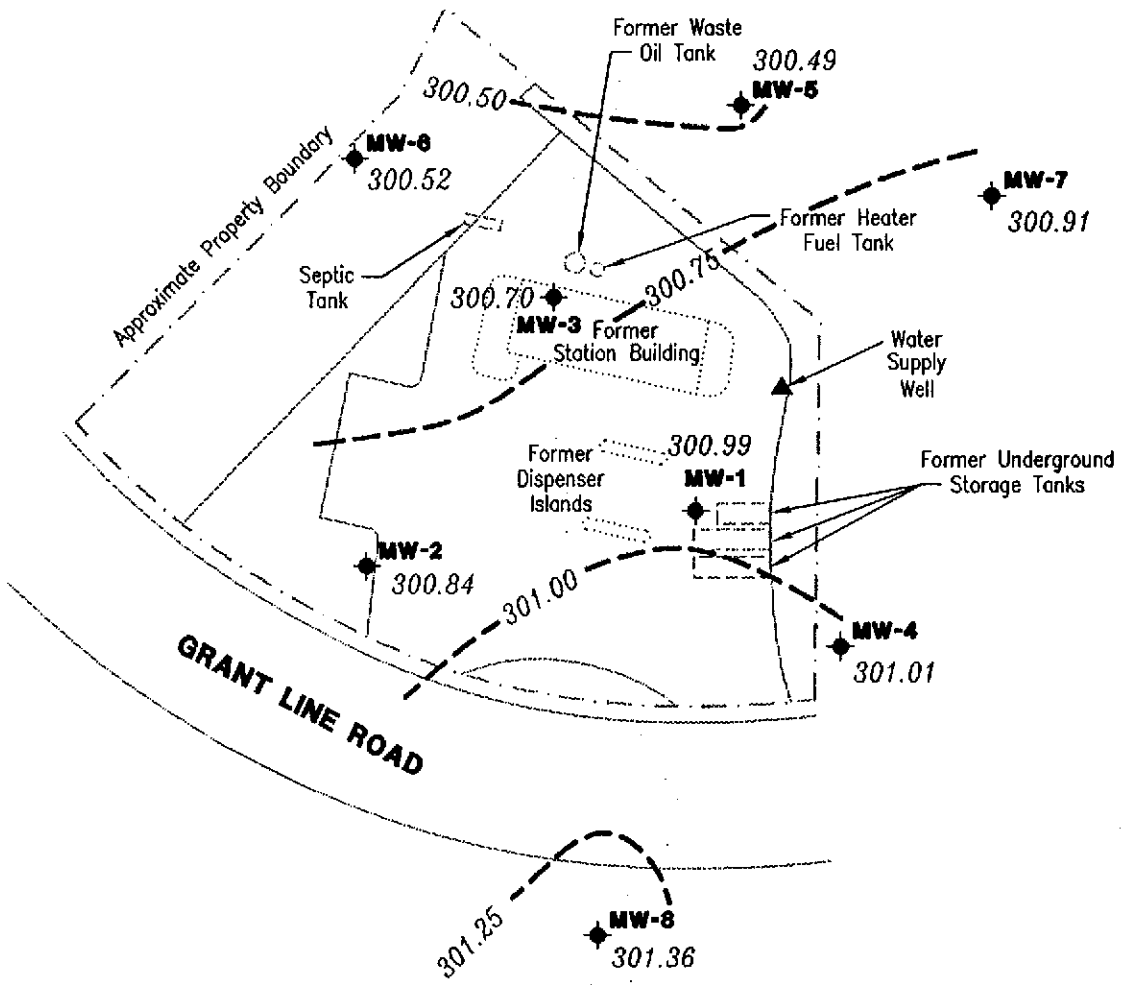
Deanna L. Harding
Project Coordinator

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

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

DLH/SJC/dlh
5251.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytical Results
Table 2: Field Parameters and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 — Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.01 to 0.005 Ft./Ft.

N

0 60

Scale in Feet

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

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		July 27, 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
	7/27/97	**28.18**	**300.99**	**0**	---	---	---	---	---	---
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	---	---	---	---	---	---

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	10/12/94	28.62	298.60	0	---	---	---	---	---	---
(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
	7/27/97	**26.38**	**300.84**	**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	---

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	9/7/95	29.86	299.42	0	---	---	---	---	---	---
(cont)	10/9/95	30.02	299.26	0	---	---	---	---	---	---
	11/15/95	30.06	299.22	0	21,000	8,000	2,900	430	1,500	<1,000
	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
	7/27/97	**28.58**	**300.70**	**0**	---	---	---	---	---	---
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

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	3/5/96	28.55	300.89	0	---	---	---	---	---	---
(cont)	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
	6/19/96	28.47	300.97	0	---	---	---	---	---	---
	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
	7/27/97	**28.43**	**301.01**	**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

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-5	9/6/96	12.68	300.20	0	---	---	---	---	---	---
(cont)	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
	7/27/97	**12.39**	**300.49**	**0**	---	---	---	---	---	---
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
	7/27/97	**11.68**	**300.52**	**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
	7/27/97	**12.45**	**300.91**	**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

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	3/5/96	28.75	301.16	0	---	---	---	---	---	---
(cont)	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	---	---	---	---	---	---
	11/11/96	28.98	300.93	0	---	---	---	---	---	---
	5/6/97	28.14	301.77	0	<50	3.6	3.1	0.7	2.5	<5.0
	7/27/97	28.55	301.36	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
	7/27/97	---	---	---	---	---	---	---	---	---
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
	7/27/97	---	---	---	---	---	---	---	---	---
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.

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Table 2. Field Parameters & Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California

Well ID	Date	Time	Volume	pH	Conductivity µmhos/cm	Temperature °C	DO (mg/L)	ORP (mV)	Total Alkalinity (ppm)	Nitrate (mg/L)	Sulfate (mg/L)	Phosphate (mg/L)	Ferrous Iron (mg/L)
MW-1	07/27/97	14:46											
		14:51	7.5	7.09	212	20.9	2.37	-5	500				
		14:56	15.0	7.11	212	21.0	2.24	-6	600				
		15:01	22.5	7.11	211	21.1	2.24	-5	550				
		15:03	23.0	7.10	212	20.9	2.25	-6	550	<1.0	14	<100	2.2
MW-2	07/27/97	14:01											
		14:03	2.0	6.95	206	21.2	9.83	2.1	300				
		14:05	4.0	6.95	206	21.2	9.85	3.0	350				
		14:07	6.0	6.95	205	21.2	9.93	3.0	325				
		14:09	7.0	6.95	205	21.2	9.90	3.0	350	59	68	<10	0.019
MW-3	07/27/97	14:29											
		14:31	2.0	7.11	269	23.0	8.75	-4.3	875				
		14:33	4.0	6.95	264	22.0	6.22	2.8	850				
		14:35	6.0	6.93	261	21.9	6.90	4.3	850				
		14:37	7.0	6.94	262	21.9	6.70	4.3	850	<1.0	<1.0	<10	2.1
MW-4	07/27/97	14:14											
		14:16	2.0	7.22	244	20.6	8.75	-13	500				
		14:18	4.0	7.21	243	20.6	8.20	-13	550				
		14:20	6.0	7.24	246	20.5	8.55	-13	525				
		14:22	7.0	7.22	245	20.6	8.50	-13	550	80	68	<10	0.15
MW-5	07/27/97	13:15											
		13:18	3.0	7.95	274	19.3	10.45	-55	300				
		13:20	6.0	7.92	273	19.0	10.35	-54	350				
		13:22	9.0	7.90	274	18.9	10.30	-52	300				
		13:24	10.0	7.91	273	19.0	10.31	-53	300	82	100	<10	0.013
MW-6	07/27/97	13:42											
		13:44	3.0	7.54	261	23.2	11.28	-40	400				
		13:46	6.0	7.34	232	19.4	8.10	-18	450				
		13:48	9.0	7.26	227	19.0	8.35	-16	400				
		13:50	10.0	7.2	228	19.1	8.32	-15	400	17	27	<10	0.017
MW-7	07/27/97	13:02											
		13:04	3.0	7.91	245	19.6	8.95	-52	350				
		13:06	6.0	7.94	264	19.3	9.70	-55	325				
		13:08	9.0	7.95	266	19.3	9.80	-55	350				
		13:10	10.0	7.93	265	19.3	9.79	-55	350	99	100	<10	0.012

Table 2. Field Parameters & Analytical Results - Former Chevron Service Station #9-7127, Interstate 580 at Grant Line Road, Tracy, California (continued)

Well ID	Date	Time	Volume	pH	Conductivity µmhos/cm	Temperature °C	DO (mg/L)	ORP (mV)	Total Alkalinity (ppm)	Nitrate (mg/L)	Sulfate (mg/L)	Phosphate (mg/L)	Ferrous Iron (mg/L)
MW-8	07/27/97	12:38											
		12:40	2.2	7.85	141	21.1	9.40	-61.3	100				
		12:42	4.6	7.84	141	20.8	9.30	-48.3	150				
		12:44	6.6	7.83	142	20.9	9.25	-50	100				
		12:46	7.0	7.84	141	20.8	9.25	-50	100	50	24	<10	0.020
Supply Well SW	07/27/97	13:40	---	7.85	257	22.7	4.89	-53	200	48	76	<10	1.5

EXPLANATION:

DO = Dissolved Oxygen
ORP = Oxidation-Reduction Potential
mg/L = Miligrams per liter
mV = Millivolts
ppm = Parts per million
µmhos/cm = Micromhos/per centimeter
°C = degress celcius

NOTES:

5251-2.fld

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: 7-27-97

ADDRESS: I-580 @ Grant Line Rd | JOB #: 525.85

CITY: Tracy CA | SS#: 9-7127

Well ID: MW-1 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" (4") in | Hydrocarbon Thickness: 0

Total Depth: 40 ft

Depth to Liquid: 28.18 ft

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

# of casing Volume: 3X 11.82 x 2 (0.66) x(VF) 7.8 | #Estimated purge Volume: 23 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

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

Starting Time: 1446 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 1503

Time	pH	Conductivity	Temperature	Volume
1451	7.09	212	20.9	7.7
1456	7.10	212	21.0	15.0
1501	7.11	211	21.1	22.2
1503	7.10	212	20.9	23.0

Weather Conditions: Clear Hot Breeze

Water Color: Clear | Odor: Strong

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-1	2x 500ml p/y	Y	HCl	SRC	Ferrous Iron
	1x 125ml p/y	Y	None	SRC	Nitrate Sulfate
					phosphate

Comments: Bio - Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 7-27-97

ADDRESS: 1580 (a) Grant Line Rd | JOB #: 525.85

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: 38 ft

Depth to Liquid: 26.38 ft

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.30

# of casing Volume: 3X 11.62 x 0.17 x(VF) 1.9 = #Estimated purge Volume: 5.9 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

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

Starting Time: 1401

Sampling Time: 1409

Purging Flow Rate: 1 gpm.

Time	pH	Conductivity	Temperature	Volume
1403	6.95	206	21.2	2
1405	6.95	206	21.2	4
1407	6.92	205	21.2	6
1409	6.95	205	21.2	7

Weather Conditions: Clear Hot Breeze

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-2	3 x 40ml poly	Y	HCl	SEC	Ferrous Iron
	1 x 500ml poly	Y	None	SEC	Nitrate Sulfate
					Phos/Alk

Comments: Bio-Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 7-27-97

ADDRESS: I-580 @ Covan Lane Rd | JOB #: 525185

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: 28.58 ft

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

# of casing Volume: 3X 11.42 x 0.17 x (VF) 1.9 = #Estimated purge Volume: 5.8 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

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

Starting Time: 1429

Sampling Time: 1437

Purging Flow Rate: 1 gpm.

Time	pH	Conductivity	Temperature	Volume
1431	7.11	269	23.0	2
1433	6.93	264	22.0	4
1435	6.93	261	21.9	6
1437	6.94	262	21.9	7

Weather Conditions: Clear Hot Breeze

Water Color: Clear | Odor: Mild

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-3	2x 500ml p/y	Y	HCl	SRC	Ferrous Iron
	1x 125ml p/y	Y	None	SRC	Nitrate Sulfate
					phosphate

Comments: Bio-Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 7-27-97

ADDRESS 1580 @ Covan Lined JOB # 525.85

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 28.43 ft

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

# of casing Volume 3X 11.57 x 0.17 x(VF) 1.9 #Estimated purge Volume 5.79 gal.

Purge Equipment Stack Sampling Equipment Bailer

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

Starting Time 14:14 Purging Flow Rate 1 gpm.

Sampling Time 1422

Time	pH	Conductivity	Temperature	Volume
1416	7.22	244	20.6	2
1418	7.21	243	20.6	4
1420	7.24	246	20.5	6
1422	7.22	245	20.6	7

Weather Conditions Clear Hot Breeze

Water Color: Clear Odor: Mild

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-4	2x 500ml poly	Y	HCl	STL	Ferrous Iron
	1x 125ml poly	Y	None	STL	Nitrate Sulfate
					Phosphate

Comments BTO - Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 7-27-97

ADDRESS: 1580 @ Grant Line Rd | JOB #: 525.85

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: 12.39 ft

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

# of casing Volume: 3X (15.61) x 0.17 x (VF) 2.6 | #Estimated purge Volume: 7.9 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

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

Starting Time: 13:16 | Purging Flow Rate: 1.0 gpm

Sampling Time: 1324

Time	pH	Conductivity	Temperature	Volume
1318	7.95	274	19.3	3
1320	7.98	273	19.0	6
1322	7.90	274	18.9	9
1324	7.91	273	19.0	10

Weather Conditions: Clear Hot Breeze

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-5	2x 500ml p/y	Y	HCl	SRC	Ferrous Iron
	1x 500ml p/y	Y	None	SRC	Nitrate Sulfate
					phos/phate

Comments: Bio Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. C/ire | DATE: 7-27-97

ADDRESS: 1580 @ Grant Line Rd | JOB #: 525185

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: 11.68 ft

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

# of casing Volume: 3X 17.32 x 0.17 x(VF) 2.9 #Estimated purge Volume: 8.7 ✓ gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

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

Starting Time: 1342 | Purging Flow Rate: 1.5 gpm.

Sampling Time: 1350

Time	pH	Conductivity	Temperature	Volume
1344	7.04	261	23.2	3
1346	7.34	232	19.4	6
1348	7.26	227	19.0	9
1350	7.28	228	19.1	10

Weather Conditions: Clear Hot Breeze

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-6	2x 500ml p/y	Y	HCl	STL	Ferrous Iron
	1x 100ml p/y	Y	None	STL	Nitrate Sulfate
					phosphate

Comments: Bio Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER F. Cline DATE 7-27-97

ADDRESS 1580 @ Covan Ln Rd JOB # 525.85

CITY Tracy CA SS# 9-7107

Well ID MW-7 Well Condition Okay

Well Location Description

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 28' ft

Depth to Liquid 12.45 ft

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

# of casing Volume 3X 15.55 x 0.17 x(VF) 2.6 #Estimated purge Volume 7.9 gal.

Purge Equipment Stack Sampling Equipment Bailer

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

Starting Time 1302 Purging Flow Rate 1.5 gpm.

Sampling Time 1310

Time	pH	Conductivity	Temperature	Volume
1304	7.91	245	19.6	3
1306	7.94	264	19.3	6
1308	7.93	~~266~~	19.3	9
1310	7.93	~~265~~	19.3	10

Weather Conditions Clear Hot Breeze

Water Color: Clear Odor: ____

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-7	3x 40ml poly	Y	HCl	STL	Ferrous Iron
	1x 500ml poly	Y	None	STL	Nitrate Sulfate
					Phosphate

Comments Rio Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 7-27-97

ADDRESS: 1580 @ Grant Line Rd | JOB #: 5251.85

CITY: Tracy CA | SS#: 9-7127

Well ID: MW-8 | Well Condition: Okay

Well Location Description:

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: 41.9 ft

Depth to Liquid: 28.55 ft

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

# of casing Volume: 3X 13.35 x 0.17 x(VF) 2.2 #Estimated purge Volume 6.6 gal.

Purge Equipment: Stack | Sampling Equipment: Bailer

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

Starting Time: 12:38 | Purging Flow Rate: 1.0 gpm.

Sampling Time: 1246

Time	pH	Conductivity	Temperature	Volume
1240	7.85	141	21.1	2.2
1242	7.84	141	20.8	4.4
1244	7.83	142	20.9	6.6
1246	7.84	141	20.9	7.0

Weather Conditions: Clear Hot Breeze

Water Color: Clear | Odor: None

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
MW-8	2x 500ml p/y	Y	HCl	SRC	Ferrous Iron
	1x 125ml p/y	Y	None	SRC	Nitrate Sulfate
					Phosphate

Comments: Bio Parameters only

WELL SAMPLING FIELD DATA SHEET

SAMPLER: F. Cline | DATE: 7-27-97

ADDRESS: 1-580 @ Grant Line Rd | JOB #: 525.85

CITY: Tracy CA | SS#: 9-7127

Well ID: SW | Well Condition: okay

Well Location Description: Supply well (SW)

Well Diameter: 2" in | Hydrocarbon Thickness: 0

Total Depth: ft

Depth to Liquid: ft

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

# of casing Volume: 3X x 0.17 x(VF) #Estimated purge Volume: gal.

Purge Equipment: ~~Stack~~ | Sampling Equipment: ~~Bailer~~ Grab

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

Starting Time: | Purging Flow Rate: gpm.

Sampling Time:

Time	pH	Conductivity	Temperature	Volume
1340	7.85	257	22.7	

Weather Conditions: Clear Hot Breeze

Water Color: Clear | Odor:

Sediment Description: None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
SW	2x 500ml p/y	4	HCl	SEC	Ferrous Iron
	1x 1000ml p/y	4	None	SEC	IV Irons Sulfides
					phosphate

Comments: Rio Parameters only

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-7127
Facility Address I-580 & GRANT LINE ROAD, TRACY
Consultant Project Number 5251
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 SEQUOIA Service Code: ZZ02970
Laboratory Service Order # 9050840
Samples Collected by (Name) F.Cline
Collection Date 7-27-97
Signature

Analyses To Be Performed — 9707083

DO NOT BILL TB-LABANALYSIS

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)	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)	Nitrate & Sulfate & Phosphates	Ferrous Iron				Remarks
~~TB~~ SW	1	2	W	G		HCl None	Y									X	X				
MW-8	2	2			1256											X	X				
MW-7	3				1300											X	X				
MW-5	4				1324											X	X				
MW-6	5				1354											X	X				
MW-2	6				1409											X	X				
MW-4	7				1422											X	X				
MW-3	8				1437											X	X				
MW-1	9	↓	↓	↓	1503	↓	↓									X	X				
			5																		

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	7-28-97/0800		G-R Inc.	7/28/97
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Deanna Harding	7/28/97			SEQ	7/28/97 1098
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
	SEQ	7/28/97 1245			7-28-97

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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568

Client Proj. ID: Chevron 9-7127/5251
Lab Proj. ID: 9707D83

Sampled: 07/27/97
Received: 07/28/97
Analyzed: see below

Attention: Deanna Harding

Reported: 08/01/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9707D83-01				
Sample Desc : **LIQUID,SW**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**1.5**
Nitrate as Nitrate	**mg/L**	**07/28/97**	**1.0**	**48**
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	**mg/L**	**07/28/97**	**1.0**	**76**
Lab No: 9707D83-02				
Sample Desc : **LIQUID,MW-8**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**0.020**
Nitrate as Nitrate	**mg/L**	**07/28/97**	**1.0**	**50**
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	**mg/L**	**07/28/97**	**1.0**	**24**
Lab No: 9707D83-03				
Sample Desc : **LIQUID,MW-7**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**0.012**
Nitrate as Nitrate	**mg/L**	**07/28/97**	**1.0**	**99**
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	**mg/L**	**07/28/97**	**1.0**	**100**
Lab No: 9707D83-04				
Sample Desc : **LIQUID,MW-5**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**0.013**
Nitrate as Nitrate	**mg/L**	**07/28/97**	**1.0**	**82**
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	**mg/L**	**07/28/97**	**1.0**	**100**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568

Attention: Deanna Harding

Client Proj. ID: Chevron 9-7127/5251

Lab Proj. ID: 9707D83

Sampled: 07/27/97
Received: 07/28/97
Analyzed: see below

Reported: 08/01/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9707D83-05				
Sample Desc : **LIQUID,MW-6**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**0.017**
Nitrate as Nitrate	**mg/L**	**07/28/97**	**1.0**	**17**
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	**mg/L**	**07/28/97**	**1.0**	**27**
Lab No: 9707D83-06				
Sample Desc : **LIQUID,MW-2**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**0.019**
Nitrate as Nitrate	**mg/L**	**07/28/97**	**1.0**	**59**
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	**mg/L**	**07/28/97**	**1.0**	**68**
Lab No: 9707D83-07				
Sample Desc : **LIQUID,MW-4**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**0.15**
Nitrate as Nitrate	**mg/L**	**07/28/97**	**1.0**	**80**
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	**mg/L**	**07/28/97**	**1.0**	**68**
Lab No: 9707D83-08				
Sample Desc : **LIQUID,MW-3**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**2.1**
Nitrate as Nitrate	mg/L	07/28/97	1.0	N.D.
Phosphate	mg/L	07/28/97	10	N.D.
Sulfate	mg/L	07/28/97	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568

Client Proj. ID: Chevron 9-7127/5251
Lab Proj. ID: 9707D83

Sampled: 07/27/97
Received: 07/28/97
Analyzed: see below

Attention: Deanna Harding

Reported: 08/01/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9707D83-09				
Sample Desc : **LIQUID,MW-1**				
Ferrous Iron	**mg/L**	**07/29/97**	**0.010**	**2.2**
Nitrate as Nitrate	mg/L	07/29/97	1.0	N.D.
Phosphate	mg/L	07/28/97	100	N.D.
Sulfate	**mg/L**	**07/29/97**	**1.0**	**14**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-7127/5251	Received: 07/28/97
6747 Sierra Court Suite G		
Dublin, CA 94568	Lab Proj. ID: 9707D83	Reported: 08/01/97
Attention: Deanna Harding		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 8 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

PO4: Reanalyzed sample -09
on 7/30/97 (past hold time) at 10x dilution, result: N.D.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Project ID:	Chevron 9-7127/5251	
6747 Sierra Court, Ste J	Matrix:	Liquid	
Dublin, CA 94568			
Attention: Deanna Harding	Work Order #:	9707D83 01-08	Reported: Aug 4, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Nitrate	Sulfate
QC Batch#:	IN0728973000ACA	IN0728973000ACA
Analy. Method:	EPA 300.0	EPA 300.0
Prep. Method:	N.A.	N.A.
Analyst:	S. Fong	S. Fong
MS/MSD #:	9707D8301	9707D8301
Sample Conc.:	48	76
Prepared Date:	7/28/97	7/28/97
Analyzed Date:	7/28/97	7/28/97
Instrument I.D.#:	INIC2	INIC2
Conc. Spiked:	10 mg/L	10 mg/L
Result:	57	86
MS % Recovery:	90	100
Dup. Result:	58	88
MSD % Recov.:	100	120
RPD:	1.7	2.3
RPD Limit:	0-20	0-20

LCS #:	LCS072897	LCS072897
Prepared Date:	7/28/97	7/28/97
Analyzed Date:	7/28/97	7/28/97
Instrument I.D.#:	INIC2	INIC2
Conc. Spiked:	10 mg/L	10 mg/L
LCS Result:	11	11
LCS % Recov.:	110	110

MS/MSD	75-125	75-125
LCS	80-120	80-120
Control Limits		

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Chevron 9-7127/5251
Matrix: Liquid
Work Order #: 9707D83 01-09
Reported: Aug 4, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Nitrate	Sulfate	Phosphate
QC Batch#:	IN0729973000ACA	IN0729973000ACA	IN0728973000ACA
Analy. Method:	EPA 300.0	EPA 300.0	EPA 300.0
Prep. Method:	N.A.	N.A.	N.A.
Analyst:	S. Fong	S. Fong	S. Fong
MS/MSD #:	9707E1501	9707E1501	9707D8301
Sample Conc.:	68	47	N.D.
Prepared Date:	7/29/97	7/29/97	7/28/97
Analyzed Date:	7/29/97	7/29/97	7/28/97
Instrument I.D.#:	INIC2	INIC2	INIC2
Conc. Spiked:	10 mg/L	10 mg/L	100 mg/L
Result:	77	56	89
MS % Recovery:	90	90	89
Dup. Result:	77	56	92
MSD % Recov.:	90	90	92
RPD:	0.0	0.0	3.3
RPD Limit:	0-20	0-20	0-20
LCS #:	LCS072997	LCS072997	LCS072897
Prepared Date:	7/29/97	7/29/97	7/28/97
Analyzed Date:	7/29/97	7/29/97	7/28/97
Instrument I.D.#:	INIC2	INIC2	INIC2
Conc. Spiked:	10 mg/L	10 mg/L	10 mg/L
LCS Result:	9.9	9.7	9.9
LCS % Recov.:	99	97	99
MS/MSD Control Limits	75-125	75-125	75-125
LCS Control Limits	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Chevron 9-7127/5251
Matrix: Liquid
Work Order #: 9707D83 01-09
Reported: Aug 4, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0729976010MDA	ME0729976010MDA	ME0729976010MDA	ME0729976010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9707A8401	9707A8401	9707A8401	9707A8401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/29/97	7/29/97	7/29/97	7/29/97
Analyzed Date:	7/29/97	7/29/97	7/29/97	7/29/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	0.93	0.93	0.94	0.94
MS % Recovery:	93	93	94	94
Dup. Result:	0.92	0.92	0.93	0.93
MSD % Recov.:	92	92	93	93
RPD:	1.1	1.1	1.1	1.1
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK072997	BLK072997	BLK072997	BLK072997
Prepared Date:	7/29/97	7/29/97	7/29/97	7/29/97
Analyzed Date:	7/29/97	7/29/97	7/29/97	7/29/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	0.96	0.97	0.97	0.97
LCS % Recov.:	96	97	97	97
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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