

ENVIRONMENTAL
PROTECTION



Chevron

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August 11, 1998

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1110
PO Box 6004
San Ramon, CA 94583-0904

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

Mr. Scott Seery
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Chevron Service Station #9-0917
5820 Hopyard Road, Pleasanton, California**

Dear Mr. Seery:

Enclosed is the Second Quarter Groundwater Monitoring & Sampling Report for 1998 report prepared by Gettler-Ryan Inc., for the above noted site. The groundwater samples were analyzed for the presence of TPH-g, BTEX and MtBE constituents. All of the wells are sampled quarterly except for well MW-4 which is monitored semi-annually (December and June). Note that wells MW-1, MW-2 and MW-3 have been abandoned.

Concentration of the benzene constituent decreased in monitoring wells MW-5 and MW-6 from the previous sampling event, while well MW-4 was below method detection limits for the TPH-g and BTEX constituents. Monitoring wells MW-7, MW-8 and MW-9 were below method detection limits for all constituents.

Depth to groundwater varied from 7.91 feet to 10.42 feet below grade with a direction of flow easterly.

There appears to be hydrocarbons entrapped in the area surrounding monitoring well MW-5 as the concentrations of benzene, even though declining over time will take a relatively long time to decline to background levels. To assist in the reduction of these hydrocarbons, **Chevron believes it would be appropriate to install oxygen-releasing compounds (ORC's) into well MW-5, and ask your concurrence to this action.**

August 11, 1998
Mr. Scott Seery
Chevron Service Station #9-0917
Page 2

Chevron will continue to monitor the site as outlined above. If you have any questions call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY



Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Eddie So
RWQCB-San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Mr. Dan Christopoulos
C & H Development Co.
3744 Mt. Diablo Blvd., Suite 301
Lafayette, CA 94549

La Mirinda Development & Investment
3650 Mt. Diablo Blvd., Suite 170
Lafayette, CA 94549

Motel 6 Operating L.P.
14651 Dallas Parkway, Suite 418
Dallas, TX 75240
Attn. Ms. Shannon Duchow

Motel 6 Operating L.P.
Regional Office II
1111 Shoreway Road
Belmont, CA 94002 (last report returned-no forwarding address)

Ms. Bette Owen, Chevron



GETTLER-RYAN INC.

July 31, 1998

Job #5242.80

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

Re: Second Quarter 1998 Groundwater Monitoring & Sampling Report
Chevron Service Station #9-0917
5280 Hopyard Road
Pleasanton, California

Dear Mr. Briggs:

This report documents the quarterly groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R). On June 29, 1998, field personnel were on-site to monitor and sample six wells (MW-4 through MW-9) at the above mentioned site.

Static groundwater levels were measured and 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 for this event are also attached. The samples were analyzed by Sequoia Analytical. 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,

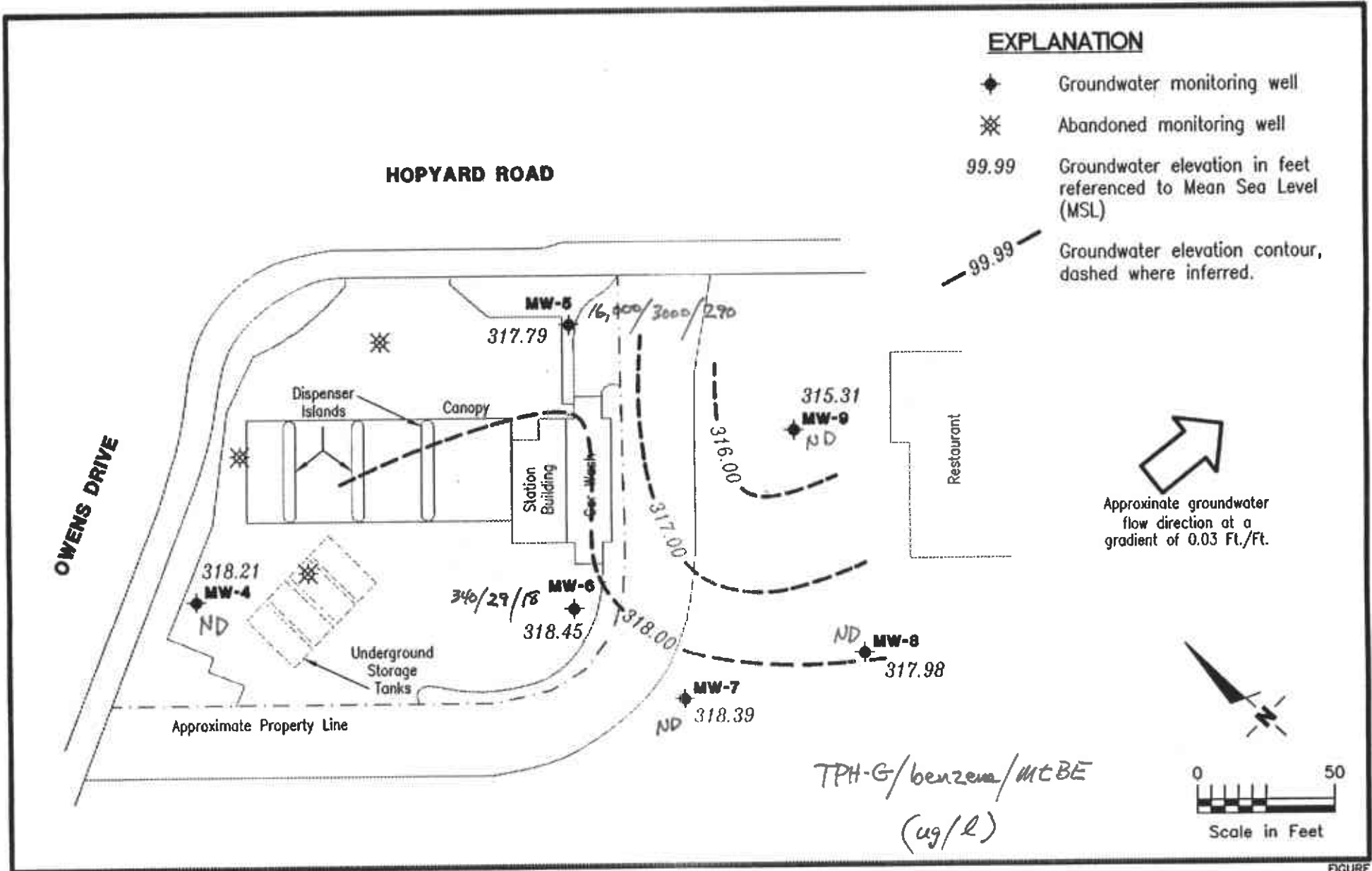
Deanna L. Harding
Project Coordinator

Barbara Sieminski
Project Geologist, R.G. No. 6676



DLH/BS/mn
5242.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 (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-0917
5280 Hopyard Road
Pleasanton, California

FIGURE

1

JOB NUMBER
5242

REVIEWED BY

DATE
June 29, 1998

REVISED DATE

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	ppb					MTBE
						B	T	E	X		
MW-1'/ 326.48	7/12/89	---	---	---	100	<0.5	<0.5	6	<0.5	---	
	8/2/89	8.10	318.38	0	---	---	---	---	---	---	
	10/24/89	7.51	318.97	0	<50	1	<0.5	13	<0.5	---	
	3/12/90	8.41	318.07	0	140	0.8	<0.5	1	<0.5	---	
	3/26/90	8.14	318.34	0	---	---	---	---	---	---	
	6/22/90	8.31	318.17	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/11/90	8.14	318.35	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	4/18/91	8.02	318.34	0	77	<0.5	<0.5	<0.5	<0.5	---	
MW-2'/ 327.53	7/17/89	---	---	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	8/2/89	9.05	318.48	0	---	---	---	---	---	---	
	10/24/89	9.24	318.29	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/12/90	10.07	317.46	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/26/90	10.05	317.48	0	---	---	---	---	---	---	
	6/22/90	10.05	317.48	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/11/90	9.68	317.85	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	4/18/91	9.23	318.30	0	<50	<0.5	<0.5	<0.5	<0.5	---	
MW-3'/ 326.47	7/17/89	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	8/2/89	8.15	318.32	0	---	---	---	---	---	---	
	10/24/89	7.59	318.88	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/12/90	8.47	318.00	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/26/90	8.83	317.64	0	---	---	---	---	---	---	
	6/22/90	8.83	317.64	0	<50	0.4	<0.5	0.8	<0.5	---	
	9/11/90	8.41	318.06	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	4/18/91	7.98	318.49	0	<50	<0.5	<0.5	<0.5	<0.5	---	
MW-4/ 327.28	9/16/91	9.59	317.69	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	1/22/92	9.49	317.79	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/26/92	8.89	318.39	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/5/92	9.22	318.06	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/23/92	9.35	317.93	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/30/92	8.28	319.00	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/22/93	8.25	319.03	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/14/93	9.16	318.12	0	---	---	---	---	---	---	
	7/25/93	9.10	318.18	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/23/93	8.70	318.58	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/28/93	9.90	317.38	0	<50	<0.5	<0.5	<0.5	0.5	---	
	3/21/94	9.25	318.03	0	<50	1.0	2.0	0.5	1.9	---	
	6/7/94	9.05	318.23	0	<50	<0.5	<0.5	<0.5	<0.5	---	

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <-----	B	T	-----ppb----->			
								E	X	MTBE	
MW-4 (cont)	10/7/94	8.97	318.31	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/29/94	9.22	318.06	0	<50 ²	<0.5	1.1	0.8	2.7	---	
	3/6/95	9.02	318.26	0	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/14/95	8.81	318.47	0	170	<0.5	<0.5	<0.5	<0.5	---	
	9/14/95	9.28	318.00	0	<50	1.0	<0.5	1.6	<0.5	---	
	12/16/95	7.86	319.42	0	<50	<0.5	<0.5	<0.5	<0.5	150	
	3/28/96	8.34	318.94	0	<50	<0.5	<0.5	<0.5	<0.5	53	
	6/28/96	8.49	318.79	0	70	<0.5	<0.5	<0.5	<0.5	92	
	9/26/96	8.44	318.84	0	---	---	---	---	---	---	
	12/30/96	8.18	319.10	0	<50 ⁴	<0.5	<0.5	<0.5	<0.5	100	
	3/13/97	8.85	318.43	0	---	---	---	---	---	---	
	6/30/97	8.49	318.79	0	260	<0.5	<0.5	<0.5	<0.5	330	
	326.93**	9/30/97	8.61	318.32	0	---	---	---	---	---	---
		12/31/97	8.53	318.40	0	<50	<0.50	<0.50	<0.50	<0.50	170
		4/2/98	8.95	317.98	0	---	---	---	---	---	---
		6/29/98	8.72	318.21	0	<50	<0.50	<0.50	<0.50	<0.50	150
MW-5/ 327.82	9/16/91	10.06	317.76	0	12,000	4,000	29	1,600	92	---	
	1/22/92	10.58	317.24	0	44,000	2,000	320	5,700	2,400	---	
	3/26/92	9.18	318.64	0	39,000	3,200	210	5,700	2,400	---	
	6/5/92	9.90	317.92	0	28,000	3,800	140	4,000	2,000	---	
	9/23/92	9.97	317.85	0	40,000	2,000	290	2,900	1,800	---	
	12/30/92	8.80	319.02	0	44,000	9,000	190	3,100	1,600	---	
	3/22/93	9.33	318.49	0	43,000	6,500	170	2,400	2,400	---	
	6/14/93	9.78	318.04	0	---	---	---	---	---	---	
	7/25/93	9.72	318.10	0	43,000	550	45	2,700	1,100	---	
	9/23/93	9.42	318.40	0	44,000 ²	14,000	640	3,700	1,800	---	
	12/28/93	9.67	318.15	0	56,000	12,000	590	4,100	1,600	---	
	3/21/94	9.71	318.11	0	48,000	12,000	600	4,700	1,600	---	
	6/7/94	9.72	318.10	0	42,000	13,000	480	3,700	1,200	---	
	10/7/94	9.55	318.27	0	15,000	1,100	41	950	34	---	
	12/29/94	9.92	317.90	0	45,000	12,000	460	3,600	1,400	---	
	3/6/95	9.32	318.50	0	40,000	9,700	210	3,500	700	---	
	6/14/95	9.41	318.41	0	42,000	8,000	170	3,700	640	---	
	9/14/95	10.52	317.30	0	26,000 ⁷	4,100	85	2,000	270	---	
	12/16/95	8.34	319.48	0	35,000	7,300	<0.5	2,900	420	<500	
	3/28/96	9.73	318.09	0	30,000	5,200	160	3,500	600	<250	
	6/28/96	9.45	318.37	0	26,000	4,300	60	2,100	200	680	
	9/26/96	9.87	317.95	0	15,000	2,700	59	1,300	140	400	
	12/30/96	9.00	318.82	0	34,000	4,600	120	2,800	660	310	
	3/13/97	9.49	318.33	0	13,000	1,900	34	1,300	220	76	
	6/30/97	9.63	318.19	0	11,000	1,800	19	84	94	160	
10/1/97	9.74	318.08	0	27,000	4,700	120	3,700	330	310		

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	ppb					MTBE
						B	T	E	X		
MW-5 (cont)	12/31/97	9.48	318.34	0	34,000	8,000	130	3,400	3,900	<500	
	4/2/98	10.38	317.44	0	27,000	4,600	65	3,400	270	270	
	6/29/98	10.03	317.79	0	16,000	3,000	<50	1,800	200	290	
MW-6/ 328.48	9/16/91	10.61	317.87	0	6,200	1,300	3.9	550	78	---	
	1/22/92	10.30	318.18	0	18,000	2,800	48	2,000	440	---	
	3/26/92	9.50	318.98	0	21,000	3,300	17	2,100	300	---	
	6/5/92	10.34	318.14	0	14,000	2,800	9.2	1,800	270	---	
	9/23/92	10.56	317.92	0	19,000	1,000	40	1,200	230	---	
	12/30/92	9.75	318.71	0	15,000	1,100	<5	1,000	77	---	
	3/22/93	9.27	319.21	0	15,000	1,300	10	770	220	---	
	6/14/93	10.15	318.33	0	---	---	---	---	---	---	
	7/25/93	10.25	318.23	0	6,400	630	<2.5	440	6	---	
	9/23/93	10.17	318.31	0	9,500	1,000	23	690	110	---	
	12/28/93	10.52	317.96	0	11,000	890	31	730	48	---	
	3/21/94	10.28	318.20	0	5,700	380	10	270	22	---	
	6/7/94	10.28	318.20	0	5,300	600	4.4	370	26	---	
	10/7/94	10.42	318.06	0	2,600	270	<5.0	110	<5.0	---	
	12/29/94	10.25	318.23	0	4,500	560	6.2	360	<5.0	---	
	3/6/95	9.36	319.12	0	4,100	480	15	290	20	---	
	6/14/95	10.11	318.37	0	2,800	180	6.9	110	6.6	---	
	9/14/95	10.27	318.21	0	3,100 ³	370	<0.5	250	<0.5	---	
	12/16/95	9.27	319.21	0	1,900	210	<0.5	76	<0.5	<13	
	3/28/96	9.35	319.13	0	1,000	120	<0.5	64	<0.5	<5.0	
	6/28/96	9.78	318.70	0	950	110	0.8	44	<0.5	22	
	9/26/96	9.46	319.02	0	1,100	120	1.6	48	<0.5	17	
	12/30/96	9.03	319.45	0	3,200	260	2.3	120	<0.5	23	
	3/13/97	9.72	318.76	0	2,000	250	<0.5	110	<0.5	<5.0	
	6/30/97	9.67	318.81	0	470	<0.5	1.2	<0.5	<0.5	<5.0	
	327.82**	10/1/97	9.29	318.53	0	1,500 ³	120	3.4	27	<0.5	20
		12/31/97	10.21	317.61	0	1,500	79	<2.5	28	<2.5	<12
	4/2/98	8.96	318.86	0	760	48	2.3	9.9	<1.0	15	
	6/29/98	9.37	318.45	0		29	<2.5	7.1	<2.5	18	
MW-7/ 326.37**	6/17/97 ^s	8.05	318.32	---	ND	ND	ND	ND	ND	ND	
	9/30/97	7.59	318.78	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	12/31/97	7.88	318.49	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	4/2/98	7.31	319.06	0	<50	2.6	<0.50	<0.50	<0.50	<2.5	
	6/29/98	7.98	318.39	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	ppb					MTBE
						B	T	E	X		
MW-8/ 325.89**	6/17/97 ^s	7.74	318.15	---	ND	ND	ND	ND	ND	ND	
	9/30/97	7.73	318.16	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	12/31/97	7.62	318.27	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	4/2/98	7.41	318.48	0	<50	<0.50	1.3	0.00	3.5	<2.5	
	6/29/98	7.91	317.98	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
MW-9/ 325.73**	6/20/97 ^s	7.85	317.88	---	ND	ND	ND	ND	ND	ND	
	10/1/97	7.63	318.10	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	12/31/97	7.20	318.53	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	4/2/98	7.21	318.52	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
	6/29/98	10.42	315.31	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
Trip Blank	6/22/90	---	---	---	<50	<0.3	<0.3	<0.3	<0.6	---	
	9/16/91	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	1/22/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/26/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/5/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
TB-LB	9/23/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/30/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/22/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	7/25/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/23/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/28/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/21/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/7/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	10/7/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/29/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	3/6/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	6/14/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	9/14/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---	
	12/16/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
	3/28/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	6/28/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	9/26/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	12/30/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/13/97	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	6/30/97	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
10/1/97	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
12/31/97	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<2.5		
4/2/98	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<2.5		
6/29/98	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<2.5		

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G) <-----ppb----->	B	T	E	X	MTBE
Bailer Blank	3/22/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
BB	7/25/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/23/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/28/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/21/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---

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 applicable/Not available

ANALYTICAL METHODS:

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

NOTES:

Water level elevation data and laboratory analytical results prior to June 14, 1995, were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

* Product thickness was measured with an MMC flexi-dip interface probe on and after March 22, 1993.

** Survey data provided by Pacific Environmental Group, Inc. Survey by Mid Coast Engineers, June 1997. Benchmark is City of Pleasanton E981, disk in monument box approx. 3,800' south of project, 20' west of centerline of Hopyard Road, and 250' southeast of centerline of Inglewood Drive to southwest. Benchmark Elevation = 324.875.

¹ Wells MW-1, MW-2 and MW-3 were abandoned on April 18 and 19, 1991.

² Uncategorized compound not included in gasoline hydrocarbon concentration.

³ Uncategorized compound not included in gasoline concentration. Data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.

⁴ Laboratory report indicates the TPH(G) value was 100 ppb which was attributed to the presence of MTBE.

⁵ Laboratory report indicates sample received at pH 4.



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 MONITORING/SAMPLING FIELD DATA SHEET

Chevron Facility # 9-0917

Job#: 5242.80

Address: 5280 Hopyard Road

Date: 06-29-98

City: Pleasanton, CA

Sampler: F. Cline

Well ID MW-4

Well Condition: okay

Well Diameter 2" in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 25' ft.

Depth to Water 8.72 ft.

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

16.28 x VF 0.17 = 2.8 x 3 (case volume) = Estimated Purge Volume: 8.3 (gal.)

Purge Equipment:

Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment:

Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 11:54

Weather Conditions: clearing

Sampling Time: 12:00

Water Color: clear Odor: None

Purging Flow Rate: 1.5 gpm.

Sediment Description: None

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:54</u>	<u>3</u>	<u>7.07</u>	<u>13000</u>	<u>19.1</u>			
<u>11:58</u>	<u>6</u>	<u>7.06</u>	<u>15440</u>	<u>19.2</u>			
<u>12:00</u>	<u>9</u>	<u>7.06</u>	<u>15700</u>	<u>19.3</u>			
<u>12:05</u>	<u>16</u>	<u>7.03</u>	<u>15600</u>	<u>19.3</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEI/GTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Chevron Facility # 9-0917
 Address: 5280 Hopyard Road
 City: Pleasanton, CA

Job#: 5242.80
 Date: 6-29-98
 Sampler: F. Cline

Well ID MW-5
 Well Diameter 2" in.
 Total Depth 24' ft.
 Depth to Water 10.03 ft.

Well Condition: okay

Hydrocarbon 0 Amount Bailed 0
 Thickness: _____ in. (product/water): _____ (gal.)
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 6" = 1.50 12" = 5.80

13.97 x VF 0.17 2.3 x 3 (case volume) = Estimated Purge Volume: 7.2 (gal.)

Purge Equipment: Disposable Bailer
Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 1241
 Sampling Time: 1249
 Purging Flow Rate: 1.2 gpm
 Did well de-water? MC

Weather Conditions: Cloudy Breeze
 Water Color: Clear Odor: Mild
 Sediment Description: Min.
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1243</u>	<u>2.4</u>	<u>7.00</u>	<u>4600</u>	<u>20.0</u>			
<u>1248</u>	<u>4.8</u>	<u>6.89</u>	<u>7050</u>	<u>19.8</u>			
<u>1242</u>	<u>7.2</u>	<u>6.89</u>	<u>7020</u>	<u>19.8</u>			
<u>1249</u>	<u>8.0</u>	<u>6.90</u>	<u>7040</u>	<u>19.7</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEI/GTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron Facility # 9-0917
 Address: 5280 Hopyard Road
 City: Pleasanton, CA

Job#: 5242.80
 Date: 6-29-92
 Sampler: E. Cline

Well ID MW-6

Well Condition: okay

Well Diameter 2" in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 27 ft.

Depth to Water 9.37 ft.

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

15.63 x VF 0.17 = 2.7 x 3 (case volume) = Estimated Purge Volume: 7.9 (gal.)

Purge Equipment: Stack
 Disposable Bailer
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 12:13
 Sampling Time: 12:20
 Purging Flow Rate: 1.5 gpm.
 Did well de-water? No

Weather Conditions: cloudy
 Water Color: clear Odor: Mild
 Sediment Description: None
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:14</u>	<u>3</u>	<u>7.13</u>	<u>7710</u>	<u>19.6</u>	_____	_____	_____
<u>12:19</u>	<u>6</u>	<u>7.11</u>	<u>7540</u>	<u>19.8</u>	_____	_____	_____
<u>12:18</u>	<u>9</u>	<u>7.14</u>	<u>7600</u>	<u>21.0</u>	_____	_____	_____
<u>12:20</u>	<u>10</u>	<u>7.12</u>	<u>7590</u>	<u>20.9</u>	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEI/GTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Chevron Facility # 9-0917

Job#: 5242.80

Address: 5280 Hopyard Road

Date: 6-29-98

City: Pleasanton, CA

Sampler: F. Cline

Well ID MW- 7

Well Condition: okay

Well Diameter 2" in.

Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)

Total Depth 20' ft.

Depth to Water 7.98 ft.

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

12.02 x VF 0.17 = 2.04 x 3 (case volume) = Estimated Purge Volume: 6.13 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1138

Weather Conditions: cloudy cool

Sampling Time: 1143

Water Color: clear Odor: None

Purging Flow Rate: 2 gpm.

Sediment Description: None

Did well de-water? No

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1139</u>	<u>2</u>	<u>7.41</u>	<u>2890</u>	<u>21.6</u>			
<u>1140</u>	<u>4</u>	<u>7.37</u>	<u>2740</u>	<u>21.9</u>			
<u>1141</u>	<u>6</u>	<u>7.41</u>	<u>2640</u>	<u>21.3</u>			
<u>1143</u>	<u>7</u>	<u>7.40</u>	<u>2690</u>	<u>21.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW- 7</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEI/GTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Chevron Facility # 9-0917
 Address: 5280 Hopyard Road
 City: Pleasanton, CA

Job#: 5242.80
 Date: 6-29-98
 Sampler: E. Cline

Well ID MW- 8 Well Condition: okay
 Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
 Total Depth 20' ft.
 Depth to Water 7.91 ft.

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

12.09 x VF 0.17 = 2.06 x 3 (case volume) = Estimated Purge Volume: 6.16 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 11:25 Weather Conditions: cloudy warm
 Sampling Time: 11:30 Water Color: clear Odor: none
 Purging Flow Rate: 2 gpm. Sediment Description: None
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:26</u>	<u>2</u>	<u>6.94</u>	<u>14720</u>	<u>21.9</u>			
<u>11:27</u>	<u>4</u>	<u>6.91</u>	<u>19530</u>	<u>21.8</u>			
<u>11:28</u>	<u>6</u>	<u>6.91</u>	<u>17620</u>	<u>22.0</u>			
<u>11:30</u>	<u>7</u>	<u>6.91</u>	<u>17700</u>	<u>21.9</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW- 8</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEI/GTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: _____

WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron Facility # 9-0917

Job#: 5242.80

Address: 5280 Hopyard Road

Date: 6-29-98

City: Pleasanton, CA

Sampler: E. Cline

Well ID MW-9

Well Condition: dry

Well Diameter 2" in.

Hydrocarbon Amount Bailed

Total Depth 20' ft.

Thickness: _____ in. (product/water): _____ (gal.)

Depth to Water 10.42 ft.

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

9.58 X VF 0.17 = 1.6 X 3 (case volume) = Estimated Purge Volume: 4.8 (gal.)

Purge Equipment: Disposable Bailer
Bailer
~~Stack~~
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 11:08

Weather Conditions: cloudy Breezy

Sampling Time: 11:23

Water Color: clear Odor: None

Purging Flow Rate: 1.6 gpm.

Sediment Description: None

Did well de-water? NO

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:09</u>	<u>1.6</u>	<u>7.48</u>	<u>3160</u>	<u>19.6</u>			
<u>11:19</u>	<u>3.2</u>	<u>7.47</u>	<u>3190</u>	<u>19.6</u>			
<u>11:24</u>	<u>4.8</u>	<u>7.47</u>	<u>3170</u>	<u>19.7</u>			
<u>11:23</u>	<u>5.6</u>	<u>7.47</u>	<u>3180</u>	<u>19.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>9</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEI/GTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: _____



**Sequoia
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RECEIVED

JUL 16 1998

Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: TB-LB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806J01-01	Sampled: 06/29/98 Received: 06/30/98 Analyzed: 07/11/98 Reported: 07/15/98
Attention: Deanna Harding		

QC Batch Number: GC071198802005A
Instrument ID: HP5

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	72

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

SEQUOIA ANALYTICAL - ELAP #1271

Mike Gregory
Project Manager





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Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806J01-05	Sampled: 06/29/98 Received: 06/30/98 Analyzed: 07/11/98 Reported: 07/15/98
Attention: Deanna Harding		

QC Batch Number: GC071198802005A
Instrument ID: HP5

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	150
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	76

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

SEQUOIA ANALYTICAL - ELAP #1271


Mike Gregory
Project Manager





**Sequoia
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Gettler Ryan/Geostrategies 6747 Sierra Court, Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806J01-07	Sampled: 06/29/98 Received: 06/30/98 Analyzed: 07/11/98 Reported: 07/15/98
Attention: Deanna Harding		

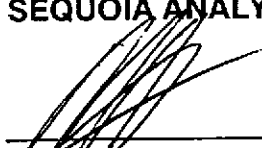
QC Batch Number: GC071198802005A
Instrument ID: HP5

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	16000
Methyl t-Butyl Ether	250	290
Benzene	50	3000
Toluene	50	N.D.
Ethyl Benzene	50	1800
Xylenes (Total)	50	220
Chromatogram Pattern:		GAS
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	78

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

SEQUOIA ANALYTICAL - ELAP #1271


Mike Gregory
Project Manager





Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806J01-06	Sampled: 06/29/98 Received: 06/30/98 Analyzed: 07/12/98 Reported: 07/15/98
Attention: Deanna Harding		


QC Batch Number: GC071298802002A
Instrument ID: HP2

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	340
Methyl t-Butyl Ether	12	18
Benzene	2.5	29
Toluene	2.5	N.D.
Ethyl Benzene	2.5	7.1
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		GAS
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	118

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

SEQUOIA ANALYTICAL - ELAP #1271



Mike Gregory
Project Manager





Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806J01-04	Sampled: 06/29/98 Received: 06/30/98 Analyzed: 07/11/98 Reported: 07/15/98
Attention: Deanna Harding		

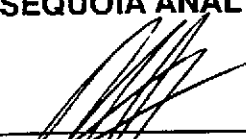
QC Batch Number: GC071198802005A
Instrument ID: HP5

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	74

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

SEQUOIA ANALYTICAL - ELAP #1271



Mike Gregory
Project Manager





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

Attention: Deanna Harding

Client Proj. ID: Chevron 9-0917, Pleasanton
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806J01-03

Sampled: 06/29/98
Received: 06/30/98
Analyzed: 07/11/98
Reported: 07/15/98

QC Batch Number: GC071198802005A
Instrument ID: HP5

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	70

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

SEQUOIA ANALYTICAL - ELAP #1271



Mike Gregory
Project Manager





**Sequoia
Analytical**

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

Attention: Deanna Harding

Client Proj. ID: Chevron 9-0917, Pleasanton
Sample Descript: MW-9
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806J01-02

Sampled: 06/29/98
Received: 06/30/98

Analyzed: 07/11/98
Reported: 07/15/98

QC Batch Number: GC071198802005A
Instrument ID: HP5

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	78

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

SEQUOIA ANALYTICAL - ELAP #1271



Mike Gregory
Project Manager





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

Client Proj. ID: Chevron 9-0917, Pleasanton

Received: 06/30/98

Lab Proj. ID: 9806J01

Reported: 07/15/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 11 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPH-GAS/BTEX:

Sample 9806J01-06 was diluted 5-fold.
Sample 9806J01-07 was diluted 100-fold.

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 9-0917, Pleasanton
Matrix: Liquid

Work Order #: 9806J01 -01-05, 07

Reported: Jul 15, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071198802005A	GC071198802005A	GC071198802005A	GC071198802005A	GC071198802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8070042	8070042	8070042	8070042	8070042
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/11/98	7/11/98	7/11/98	7/11/98	7/11/98
Analyzed Date:	7/11/98	7/11/98	7/11/98	7/11/98	7/11/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	280 µg/L
Result:	18	19	19	58	240
MS % Recovery:	90	95	95	97	88
Dup. Result:	18	19	19	59	250
MSD % Recov.:	90	95	95	98	89
RPD:	0.0	0.0	0.0	1.7	4.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS071198	LCS071198	LCS071198	LCS071198	LCS071198
Prepared Date:	7/11/98	7/11/98	7/11/98	7/11/98	7/11/98
Analyzed Date:	7/11/98	7/11/98	7/11/98	7/11/98	7/11/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	280 µg/L
LCS Result:	20	20	20	61	220
LCS % Recov.:	100	100	100	102	79

MS/MSD	60-140	60-140	60-140	60-140	
LCS	70-130	70-130	70-130	70-130	60-140
Control Limits					

SEQUOIA ANALYTICAL
Elap #1271

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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Sequoia Analytical

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

Client Project ID: Chevron 9-0917, Pleasanton
Matrix: Liquid

Work Order #: 9806J01-06

Reported: Jul 15, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071298802002A	GC071298802002A	GC071298802002A	GC071298802002A	GC071298802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8070150	8070150	8070150	8070150	8070150
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/12/98	7/12/98	7/12/98	7/12/98	7/12/98
Analyzed Date:	7/12/98	7/12/98	7/12/98	7/12/98	7/12/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
Result:	19	19	19	58	350
MS % Recovery:	95	95	95	97	95
Dup. Result:	20	20	19	61	340
MSD % Recov.:	100	100	95	102	92
RPD:	5.1	5.1	0.0	5.0	2.9
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS071298	LCS071298	LCS071298	LCS071298	LCS071298
Prepared Date:	7/12/98	7/12/98	7/12/98	7/12/98	7/12/98
Analyzed Date:	7/12/98	7/12/98	7/12/98	7/12/98	7/12/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
LCS Result:	19	19	20	61	340
LCS % Recov.:	95	95	100	102	92

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	60-140
Control Limits					

SEQUOIA ANALYTICAL
Elap #1271

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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