

ENVIRONMENTAL  
PROTECTION

99 MAY 14 AM 9:06



**Chevron**

May 11, 1998

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

**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

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

Dear Mr. Seery:

Enclosed is the First 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. The benzene concentration increased in MW-7 from the previous sampling event while the TPH-g, MtBE and TEX constituents were below method detection limits. Monitoring well MW-8 was below method detection limits for the benzene, TPH-g and MtBE constituents. Monitoring well MW-9 was below method detection limits for all constituents.

Depth to groundwater varied from 7.21 feet to 10.38 feet below grade with a direction of flow northeasterly.

Chevron will continue to monitor the site as outlined above. If you have any questions call me at (510) 842-9136.

Sincerely,

**CHEVRON PRODUCTS COMPANY**

A handwritten signature in cursive script, appearing to read "Philip R. Briggs".

Philip R. Briggs  
Site Assessment and Remediation Project Manager

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

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, 418  
Dallas, TX 75240  
Attn. Ms. Shannon Duchow

Motel 6 Operating L.P.  
Regional Office II  
1111 Shoreway Road  
Belmont, CA 94002

Ms. Bette Owen, Chevron



# GETTLER - RYAN INC.

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May 8, 1998

Job #5242.80

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

Re: First 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 April 2, 1998, field personnel were on-site to monitor six wells (MW-4 through MW-9) and sample five wells (MW-5 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.

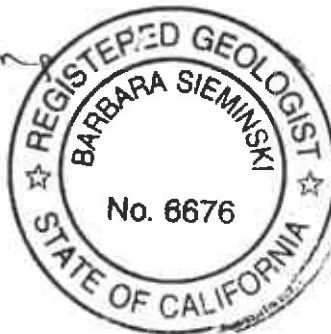
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain 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,

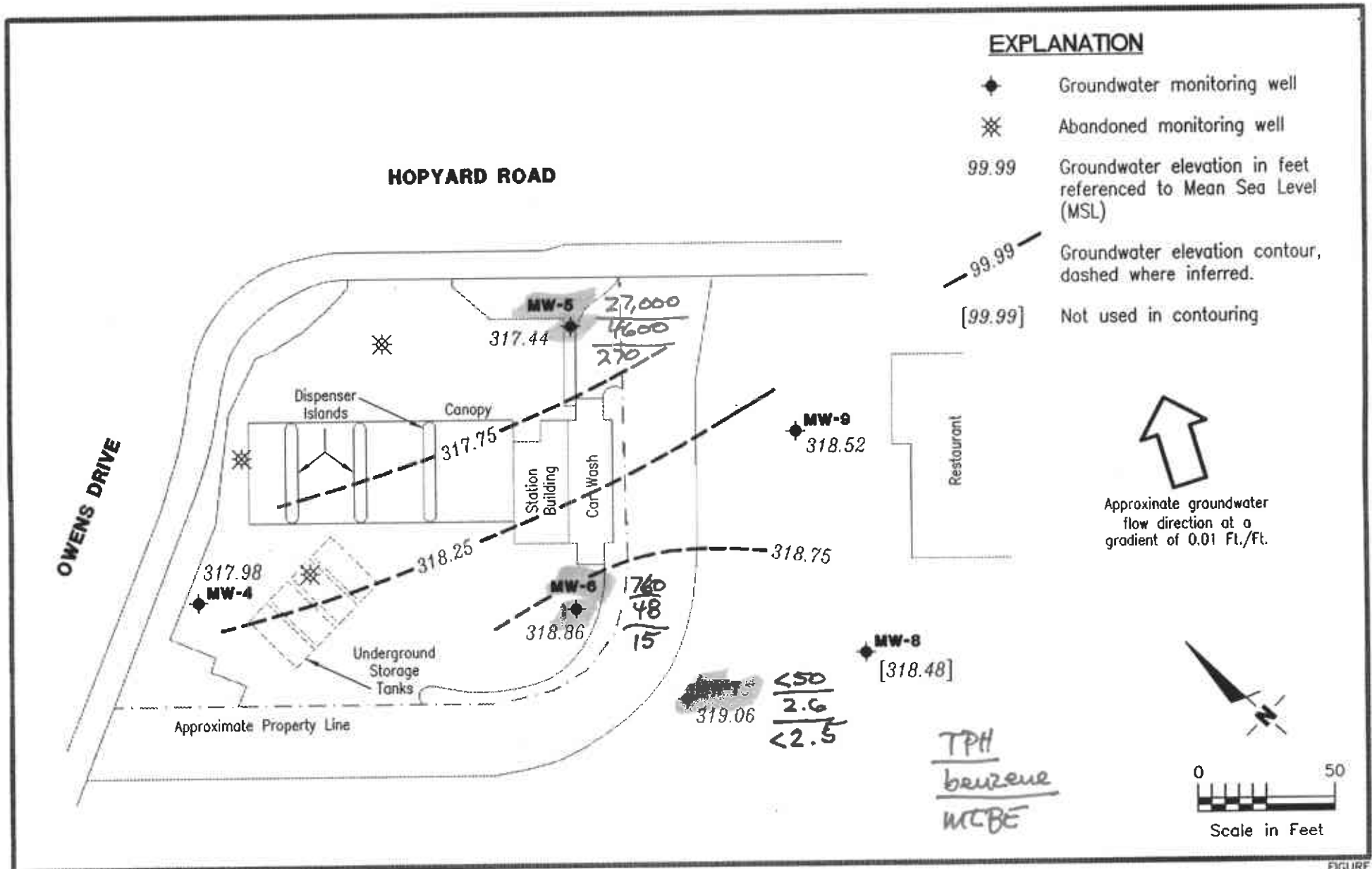
*Deanna L. Harding*  
Deanna L. Harding  
Project Coordinator

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



DLH/BS/an  
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  
April 2, 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				
						B	T	E	X	MTBE
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)	ppb					
					TPH(G) ←-----	B	T	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 <sup>2</sup>	<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 <sup>4</sup>	<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
	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	---	---	---	---	---	---
	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 <sup>2</sup>	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 <sup>2</sup>	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)	ppb					
					TPH(G)	B	T	E	X	MTBE
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
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 <sup>3</sup>	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
	10/1/97	9.29	318.53	0	1,500 <sup>3</sup>	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		2.3	9.9	<1.0	15
MW-7/ 326.37**	6/17/97 <sup>5</sup>	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		<0.50	<0.50	<0.50	<2.5
MW-8/ 325.89**	6/17/97 <sup>5</sup>	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	0.67	3.5	<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) <-----	B	T	E	X	MTBE ----->
MW-9/ 325.73**	6/20/97 <sup>s</sup>	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
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
Bailer Blank BB	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	---



Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-0917, 5280 Hopyard Road, Pleasanton, 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 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.
- <sup>1</sup> Wells MW-1, MW-2 and MW-3 were abandoned on April 18 and 19, 1991.
- <sup>2</sup> Uncategorized compound not included in gasoline hydrocarbon concentration.
- <sup>3</sup> Uncategorized compound not included in gasoline concentration. Data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.
- <sup>4</sup> Laboratory report indicates the TPH(G) value was 100 ppb which was attributed to the presence of MTBE.
- <sup>5</sup> 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: 4-2-88

City: Pleasanton, CA

Sampler: E. Cline

Well ID MW-4

Well Condition: dry

Well Diameter 2" in.

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

Total Depth 251 ft.

Depth to Water 8.95 ft.

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

**Purge Equipment:**  
 Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_

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

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

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

Purging Flow Rate: \_\_\_\_\_ gpm.

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

Did well de-water? \_\_\_\_\_

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3 x 40m/VOA	Y	HCL	NEWSTEL SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: water level only

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0917

Job#: 5242.80

Address: 5280 Hopyard Road

Date: 4-2-98

City: Pleasanton, CA

Sampler: F. Cline

Well ID MW-5

Well Condition: okay

Well Diameter 2" in.

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

Total Depth 24' ft.

Depth to Water 10.38 ft.

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

13.62 x VF 0.17 = 2.3 x 3 (case volume) = Estimated Purge Volume: 6.9 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack Section  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1047  
Sampling Time: 1055  
Purging Flow Rate: 1.2 gpm.  
Did well de-water? AK

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

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1049</u>	<u>2.4</u>	<u>7.18</u>	<u>123</u>	<u>19.1</u>			
<u>1051</u>	<u>4.8</u>	<u>7.22</u>	<u>121</u>	<u>18.9</u>			
<u>1053</u>	<u>7.2</u>	<u>7.20</u>	<u>117</u>	<u>19.3</u>			
<u>1055</u>	<u>8.0</u>	<u>7.20</u>	<u>118</u>	<u>19.2</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>NEUGTEL SEQ001A</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: 4-2-98  
 Sampler: F. Cline

Well ID: MW-6  
 Well Diameter: 2" in.  
 Total Depth: 25' ft.  
 Depth to Water: 8.96 ft.

Well Condition: okay

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

16.04 X VF 0.17 = 2.7 X 3 (case volume) = Estimated Purge Volume: 8.18 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 10:23  
 Sampling Time: 10:33  
 Purging Flow Rate: 1.5 gpm.  
 Did well de-water? No

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

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:27</u>	<u>3</u>	<u>7.13</u>	<u>164</u>	<u>19.0</u>			
<u>10:29</u>	<u>6</u>	<u>7.13</u>	<u>161</u>	<u>19.3</u>			
<u>10:31</u>	<u>9</u>	<u>7.11</u>	<u>161</u>	<u>19.3</u>			
<u>10:33</u>	<u>10</u>	<u>7.12</u>	<u>162</u>	<u>19.4</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>HEMLOCK SEQUOIA</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: 4-2-98

City: Pleasanton, CA

Sampler: F.Cline

Well ID MW- 7

Well Condition: okay

Well Diameter 2" in.

Hydrocarbon Thickness: 0 in. Amount Bailed 0 (gal.)

Total Depth 20' ft.

Depth to Water 7.31 ft.

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

12.69 x VF 0.17 2.16 x 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
~~Bailer~~  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 10:11

Weather Conditions: cloudy Breezy

Sampling Time: 10:19

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

Purging Flow Rate: 1.1 gpm.

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

Did well de-water? No

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>10:13</u>	<u>2.2</u>	<u>7.48</u>	<u>198</u>	<u>20.2</u>			
<u>10:15</u>	<u>4.4</u>	<u>7.46</u>	<u>184</u>	<u>20.2</u>			
<u>10:17</u>	<u>6.6</u>	<u>7.47</u>	<u>180</u>	<u>20.3</u>			
<u>10:19</u>	<u>7.0</u>	<u>7.46</u>	<u>182</u>	<u>20.2</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>NEWTEL SEQUOIA</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: 8-2-98  
 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: 7.41 ft.

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

12.59 X VF 0.17 = 2.1 X 3 (case volume) = Estimated Purge Volume: 6.4 (gal.)

Purge Equipment: Stack Disposable Bailer Bailer Suction Grundfos Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: 9:56 Weather Conditions: Cloudy Breeze  
 Sampling Time: 1004 Water Color: Cloudy Odor: None  
 Purging Flow Rate: 1.1 gpm. Sediment Description: None  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:58</u>	<u>2.2</u>	<u>6.96</u>	<u>305</u>	<u>20.0</u>			
<u>1000</u>	<u>4.4</u>	<u>6.95</u>	<u>294</u>	<u>20.2</u>			
<u>1002</u>	<u>6.6</u>	<u>6.94</u>	<u>287</u>	<u>21.0</u>			
<u>1004</u>	<u>7.0</u>	<u>6.95</u>	<u>290</u>	<u>20.9</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>NEOTEL SEQUOIA</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: 4-2-98

City: Pleasanton, CA

Sampler: F.Cline

Well ID MW-9

Well Condition: dry

Well Diameter 2" in.

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

Total Depth 20' ft.

Depth to Water 7.21 ft.

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

12.79 X VF 2.2 = 6.5 X 3 (case volume) = Estimated Purge Volume: 196 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 9:36

Weather Conditions: cloudy Breeze

Sampling Time: 9:44

Water Color: clear Odor: None

Purging Flow Rate: 1.1 gpm.

Sediment Description: None

Did well de-water? No

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>9:38</u>	<u>2.2</u>	<u>7.40</u>	<u>7150</u>	<u>19.4</u>			
<u>9:40</u>	<u>4.4</u>	<u>7.49</u>	<u>7100</u>	<u>19.4</u>			
<u>9:42</u>	<u>6.6</u>	<u>7.48</u>	<u>7100</u>	<u>19.4</u>			
<u>9:44</u>	<u>7.0</u>	<u>7.49</u>	<u>7100</u>	<u>19.3</u>			

**LABORATORY INFORMATION**

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

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_







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: 9804232-01	Sampled: 04/02/98 Received: 04/03/98 Analyzed: 04/13/98 Reported: 04/20/98
Attention: Deanna Harding		

QC Batch Number: GC041398802005A  
Instrument ID: GCHP05

**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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	84

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	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804232-06	Sampled: 04/02/98 Received: 04/03/98  Analyzed: 04/14/98 Reported: 04/20/98
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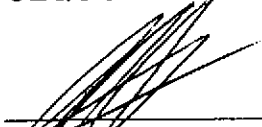
QC Batch Number: GC041498802005A  
Instrument ID: GCHP05

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	27000
Methyl t-Butyl Ether	250	270
Benzene	50	4600
Toluene	50	65
Ethyl Benzene	50	3400
Xylenes (Total)	50	270
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	82

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-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804232-05	Sampled: 04/02/98 Received: 04/03/98 Analyzed: 04/14/98 Reported: 04/20/98
Attention: Deanna Harding		

QC Batch Number: GC041498802004A  
Instrument ID: GCHP04

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	760
Methyl t-Butyl Ether	5.0	15
Benzene	1.0	48
Toluene	1.0	2.3
Ethyl Benzene	1.0	9.9
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	84

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  
  
Attention: Deanna Harding

Client Proj. ID: Chevron 9-0917, Pleasanton  
Sample Descript: MW-7  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9804232-04

Sampled: 04/02/98  
Received: 04/03/98  
  
Analyzed: 04/13/98  
Reported: 04/20/98

QC Batch Number: GC041398802005A  
Instrument ID: GCHP05

**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.
<b>Benzene</b>	<b>0.50</b>	<b>2.6</b>
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	96

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-8  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9804232-03

Sampled: 04/02/98  
Received: 04/03/98  
Analyzed: 04/13/98  
Reported: 04/20/98

QC Batch Number: GC041398802005A  
Instrument ID: GCHP05

## 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	1.3
Ethyl Benzene	0.50	0.67
Xylenes (Total)	0.50	3.5
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
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



**Sequoia  
Analytical**

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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-9 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804232-02	Sampled: 04/02/98 Received: 04/03/98 Analyzed: 04/13/98 Reported: 04/20/98
Attention: Deanna Harding		

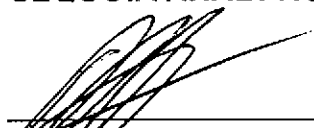
QC Batch Number: GC041398802005A  
Instrument ID: GCHP05

**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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	94

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  
Lab Proj. ID: 9804232

Received: 04/03/98  
Reported: 04/20/98

### 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.).

TPGBMW: Sample 9804232-05 was diluted 2-fold.  
Sample 9804232-06 was diluted 100-fold.

SEQUOIA ANALYTICAL

  
Mike Gregory  
Project Manager





# 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 #: **9804232 -01-04**

Reported: **Apr 21, 1998**

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041398802005A	GC041398802005A	GC041398802005A	GC041398802005A	GC041398802005A
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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8040771	8040771	8040771	8040771	8040771
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Analyzed Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
Result:	19	19	19	60	320
MS % Recovery:	95	95	95	100	86
Dup. Result:	20	21	21	65	280
MSD % Recov.:	100	105	105	108	76
RPD:	5.1	10	10	8.0	13
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS041398	LCS041398	LCS041398	LCS041398	LCS041398
Prepared Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Analyzed Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
LCS Result:	21	22	22	68	280
LCS % Recov.:	105	110	110	113	76

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

9804232.GET <1>



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Attention: Deanna Harding

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

Work Order #: 9804232-05

Reported: Apr 21, 1998

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041498802004A	GC041498802004A	GC041498802004A	GC041498802004A	GC041498802004A
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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8040680	8040680	8040680	8040680	8040680
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Analyzed Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
Result:	18	19	18	56	280
MS % Recovery:	90	95	90	93	97
Dup. Result:	18	19	18	57	260
MSD % Recov.:	90	95	90	95	90
RPD:	0.0	0.0	0.0	1.8	7.4
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS041498	LCS041498	LCS041498	LCS041498	LCS041498
Prepared Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Analyzed Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
LCS Result:	17	18	17	53	360
LCS % Recov.:	85	90	85	88	124

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

SEQUOIA ANALYTICAL  
Elap #1271

Mike Gregory  
Project Manager

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9804232.GET <2>



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Attention: Deanna Harding

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

Work Order #: 9804232-06

Reported: Apr 21, 1998

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041498802005A	GC041498802005A	GC041498802005A	GC041498802005A	GC041498802005A
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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8040806	8040806	8040806	8040806	8040806
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Analyzed Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Result:	19	20	20	64	310
MS % Recovery:	95	100	100	107	103
Dup. Result:	17	18	18	55	270
MSD % Recov.:	85	90	90	92	90
RPD:	11	11	11	15	14
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS041498	LCS041498	LCS041498	LCS041498	LCS041498
Prepared Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Analyzed Date:	4/14/98	4/14/98	4/14/98	4/14/98	4/14/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
LCS Result:	20	21	21	66	320
LCS % Recov.:	100	105	105	110	107

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

SEQUOIA ANALYTICAL  
Elap #1271

Mike Gregory  
Project Manager

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