



**Chevron**

February 10, 1998

RECEIVED  
FEB 10 1998  
5:00 PM

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 Fourth Quarter Groundwater Monitoring & Sampling Report for 1997 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 increased from the previous sampling event in well MW-5 while decreasing in well MW-6. Monitoring 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 7.20 feet to 10.21 feet below grade with a direction of flow toward well MW-6 from the other wells.

Based on the recent sampling results, it appear that the dissolved hydrocarbon plume is stable and is not impacting the area southeasterly of the site.

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**

Philip R. Briggs  
Site Assessment and Remediation Project Manager



February 10, 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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February 6, 1997

Job #5242.80

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

Re: Fourth Quarter 1997 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 December 31, 1997, field personnel were on-site to monitor and sample six wells (MW-4 through MW-9) at Chevron Service Station #9-0917 located at 5280 Hopyard Road in Pleasanton, California.

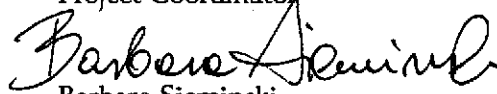
Static groundwater levels were measured on December 31, 1997. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets 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,

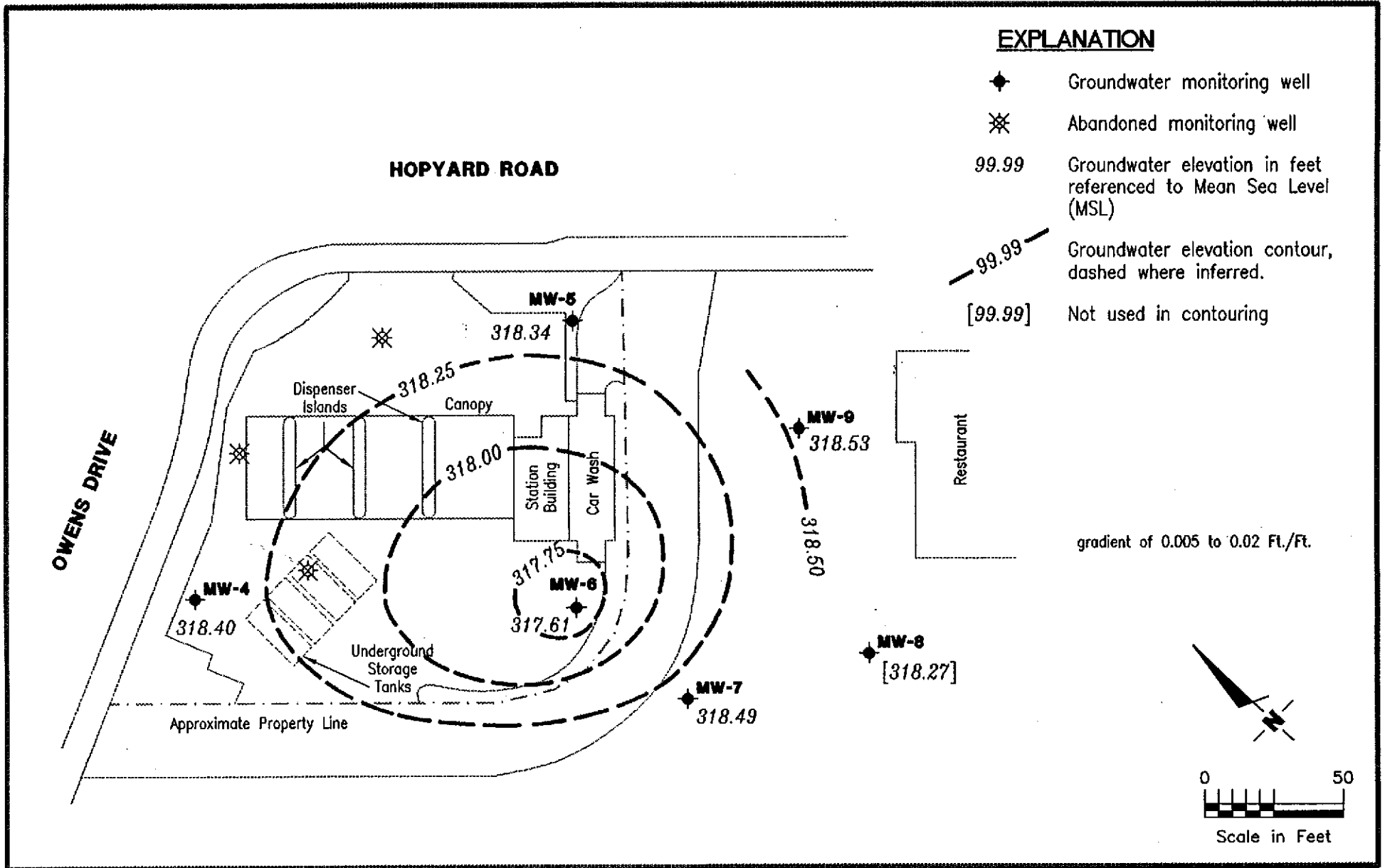
  
Deanna L. Harding  
Project Coordinator

  
Barbara Sieminski  
Registered 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 (510) 551-7555  
 Dublin, CA 94568

JOB NUMBER  
5242

REVIEWED BY

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

DATE  
December 31, 1997

REVISED DATE

FIGURE

**1**



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 <sup>y</sup> 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 <sup>y</sup> 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 <sup>y</sup> 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	E	X	MTBE	
					<-----ppb----->						
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	
	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
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		
12/31/97	9.48	318.34	0	34,000	8,000	130	3,400	3,900	<500		



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-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>s</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
327.82**	10/1/97	9.29	318.53	0	1,500 <sup>s</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
MW-7/ 326.37**	6/17/97 <sup>s</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
MW-8/ 325.89**	6/17/97 <sup>s</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
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



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	
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	
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  
 Address: 5280 Hopyard Road  
 City: Pleasanton, CA

Job#: 5242.80  
 Date: 12-31-97  
 Sampler: E.Cline

Well ID: MW-4  
 Well Diameter: 2" in.  
 Total Depth: 25 ft.  
 Depth to Water: 8.53 ft.

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

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

16.47 X VF 0.17 = 2.8 X 3 (case volume) = Estimated Purge Volume: 8.4 (gal.)

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

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

Starting Time: 10:00  
 Sampling Time: 10:00  
 Purging Flow Rate: 1.5 gpm.  
 Did well de-water? NC

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>10:03</u>	<u>3</u>	<u>6.92</u>	<u>16490</u>	<u>19.8</u>	_____	_____	_____
<u>10:09</u>	<u>6</u>	<u>6.94</u>	<u>17400</u>	<u>19.7</u>	_____	_____	_____
<u>10:06</u>	<u>9</u>	<u>6.94</u>	<u>17650</u>	<u>19.2</u>	_____	_____	_____
<u>10:08</u>	<u>10</u>	<u>6.94</u>	<u>17600</u>	<u>19.3</u>	_____	_____	_____

### LABORATORY INFORMATION

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

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0917

Job#: 5242.80

Address: 5280 Hopyard Road

Date: 12-31-97

City: Pleasanton, CA

Sampler: E. Cline

Well ID MW-5

Well Condition: okay

Well Diameter 2" in.

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

Total Depth 24 ft.

Depth to Water 9.48 ft.

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

14.52 x VF 0.17 = 2.5 x 3 (case volume) = Estimated Purge Volume: 7.41 (gal.)

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

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

Starting Time: 10:27

Weather Conditions: clearly cool

Sampling Time: 1035

Water Color: clear Odor: W/C

Purging Flow Rate: 1.5 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>10:29</u>	<u>3</u>	<u>7.18</u>	<u>3360</u>	<u>19.7</u>	_____	_____	_____
<u>1031</u>	<u>6</u>	<u>7.05</u>	<u>3770</u>	<u>20.2</u>	_____	_____	_____
<u>1033</u>	<u>9</u>	<u>7.06</u>	<u>3780</u>	<u>20.2</u>	_____	_____	_____
<u>1035</u>	<u>10</u>	<u>7.05</u>	<u>3770</u>	<u>20.2</u>	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>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: 12-31-97  
 Sampler: F. Cline

Well ID MW- 6  
 Well Diameter 2" in.  
 Total Depth 25 ft.  
 Depth to Water 10.21 ft.

Well Condition: Okay

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

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

14179 X VF 0.17 = 2.5 X 3 (case volume) = Estimated Purge Volume: 7.54 (gal.)

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

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

Starting Time: 10:15  
 Sampling Time: 10:23  
 Purging Flow Rate: 1.5 gpm.  
 Did well de-water? No

Weather Conditions: cloudy cool  
 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>1017</u>	<u>3</u>	<u>7.00</u>	<u>10530</u>	<u>20.3</u>			
<u>1019</u>	<u>6</u>	<u>7.00</u>	<u>10300</u>	<u>20.2</u>			
<u>1021</u>	<u>9</u>	<u>7.01</u>	<u>10300</u>	<u>20.1</u>			
<u>1023</u>	<u>10</u>	<u>7.00</u>	<u>10310</u>	<u>20.1</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  
 Address: 5280 Hopyard Road  
 City: Pleasanton, CA

Job#: 5242.80  
 Date: 12-31-97  
 Sampler: E. Cline

Well ID MW-7

Well Condition: okay

Well Diameter 2" in.

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

Total Depth 20' ft.

Depth to Water 7.88 ft.

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

12.12 x VF 0.17 = 2.06 x 3 (case volume) = Estimated Purge Volume: 6.18 (gal.)

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

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

Starting Time: 9:52  
 Sampling Time: 9:57  
 Purging Flow Rate: 22 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>9:53</u>	<u>2.2</u>	<u>7.08</u>	<u>3050</u>	<u>21.8</u>			
<u>9:54</u>	<u>4.4</u>	<u>7.09</u>	<u>3040</u>	<u>22.0</u>			
<u>9:55</u>	<u>6.6</u>	<u>7.11</u>	<u>2920</u>	<u>22.0</u>			
<u>9:57</u>	<u>7.0</u>	<u>7.10</u>	<u>2930</u>	<u>21.9</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: 12-31-97  
 Sampler: F. 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: 7.62 ft.  
 Volume Factor (VF) table:  

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

  
12.38 x VF 0.17 = 2.1 x 3 (case volume) = Estimated Purge Volume: 6.3 (gal.)

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

Starting Time: 9:38 Weather Conditions: cloudy cool  
 Sampling Time: 9:43 Water Color: clear Odor: None  
 Purging Flow Rate: 2.1 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)
9:39	2.2	6.77	16550	22.0			
9:40	4.4	6.76	16750	22.2			
9:41	6.6	6.75	16650	22.3			
9:43	7.0	6.74	16660	22.2			

### LABORATORY INFORMATION

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

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0917

Job#: 5242.80

Address: 5280 Hopyard Road

Date: 12-31-97

City: Pleasanton, CA

Sampler: F.Cline

Well ID MW-9

Well Condition: okay

Well Diameter 2" in.

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

Total Depth 20' ft.

Depth to Water 7.20 ft.

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

12.80 x VF 0.17 = 2.2 x 3 (case volume) = Estimated Purge Volume: 6.53 (gal.)

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

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

Starting Time: 9:26

Weather Conditions: cloudy cool

Sampling Time: 9:31

Water Color: clear Odor: None

Purging Flow Rate: 2.2 gpm.

Sediment Description: None

Did well de-water? NC

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>9:27</u>	<u>2.2</u>	<u>6.19</u>	<u>3870</u>	<u>20.6</u>	_____	_____	_____
<u>9:28</u>	<u>4.4</u>	<u>6.89</u>	<u>3840</u>	<u>20.5</u>	_____	_____	_____
<u>9:29</u>	<u>6.6</u>	<u>6.61</u>	<u>3820</u>	<u>20.3</u>	_____	_____	_____
<u>9:31</u>	<u>7.0</u>	<u>6.60</u>	<u>3840</u>	<u>20.4</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>NEI/GTEL</u>	<u>TPH-Gas/BTEX/MTBE</u>

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



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

Chevron Facility Number #9-0917  
Facility Address 5280 Hopyard Road, Pleasanton, CA  
Consultant Project Number 5242  
Consultant Name Gattler-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) 842-9135  
Laboratory Name NEI/GTEL Service Code: ZZ02790  
Laboratory Service Order # 9033195  
Samples Collected by (Name) F. Chize  
Collection Date 12-31-97  
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analysis To Be Performed											DO NOT BILL TB-LB ANALYSIS  9712486  Remarks					
								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)									
TB-LB	01	2	W	TB		HCL	Y	X																
MW-9	02	3		G	924			X																
MW-8	03				923			X																
MW-7	04				921			X																
MW-4	05				1028			X																
MW-6	06				1023			X																
MW-5	07				1035		Y	X																DE 31 3 00

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>G-R Inc.</u>	Date/Time <u>12-31-97/1055</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>SEA</u>	Date/Time <u>12/31/97/1345</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>SEA</u>	Date/Time <u>12/31/97</u>	Received By (Signature) _____	Organization _____	Date/Time _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) _____	Date/Time _____		

LAWG/03 81/MCH



**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
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FAX (650) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

RECEIVED

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

Client Proj. ID: Chevron 9-0917, Pleasanton CA 94568  
Sample Descript: TB-LB  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9712H86-01

Sampled: 12/31/97  
Received: 12/31/97  
Analyzed: 01/12/98  
Reported: 01/14/98

GETTLER-RYAN INC.  
GENERAL CONTRACTOR


QC Batch Number: GC011298BTEX06A  
Instrument ID: GCHP6

**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	92

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568 Attention: Deanna Harding	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712H86-05	Sampled: 12/31/97 Received: 12/31/97 Analyzed: 01/12/98 Reported: 01/14/98
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QC Batch Number: GC011298BTEX06A  
Instrument ID: GCHP6

**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	170
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 #1210**

  
\_\_\_\_\_  
Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568 Attention: Deanna Harding	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712H86-07	Sampled: 12/31/97 Received: 12/31/97 Analyzed: 01/13/98 Reported: 01/14/98
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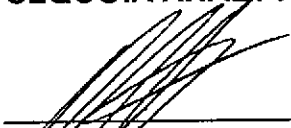
QC Batch Number: GC011398BTEX06A  
Instrument ID: GCHP6

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	34000
Methyl t-Butyl Ether	500	N.D.
Benzene	100	8000
Toluene	100	130
Ethyl Benzene	100	3400
Xylenes (Total)	100	3900
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	120

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
\_\_\_\_\_  
Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712H86-06	Sampled: 12/31/97 Received: 12/31/97 Analyzed: 01/12/98 Reported: 01/14/98
Attention: Deanna Harding		

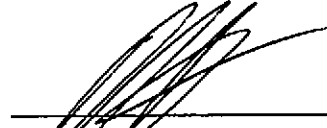
QC Batch Number: GC011298BTEX06A  
Instrument ID: GCHP6

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

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	1500
Methyl t-Butyl Ether	12	N.D.
Benzene	2.5	79
Toluene	2.5	N.D.
Ethyl Benzene	2.5	28
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	137 Q

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

**SEQUOIA ANALYTICAL** - ELAP #1210

  
\_\_\_\_\_  
Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G 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: 9712H86-04	Sampled: 12/31/97 Received: 12/31/97 Analyzed: 01/12/98 Reported: 01/14/98
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QC Batch Number: GC011298BTEX06A  
Instrument ID: GCHP6

**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	91

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

**SEQUOIA ANALYTICAL - ELAP #1210**

  
\_\_\_\_\_  
Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Chevron 9-0917, Pleasanton Sample Descript: MW-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712H86-03	Sampled: 12/31/97 Received: 12/31/97 Analyzed: 01/09/98 Reported: 01/14/98
Attention: Deanna Harding		

QC Batch Number: GC010998BTEX18A  
Instrument ID: GCHP18

**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	72

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

**SEQUOIA ANALYTICAL - ELAP #1210**

Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite G 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: 9712H86-02	Sampled: 12/31/97 Received: 12/31/97 Analyzed: 01/12/98 Reported: 01/14/98
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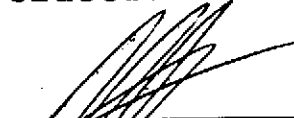
QC Batch Number: GC011298BTEX06A  
Instrument ID: GCHP6

**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	77

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  
Attention: Deanna Harding

Client Proj. ID: Chevron 9-0917, Pleasanton

Lab Proj. ID: 9712H86

Received: 12/31/97

Reported: 01/14/98

### 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 #6 had high surrogate recovery due to matrix effect. This result was confirmed.

TPGBMW: Sample 9712H86-06 was diluted 5-fold.  
Sample 9712H86-07 was diluted 200-fold.

SEQUOIA ANALYTICAL

Mike Gregory  
Project Manager



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 #: 9712H86 -01, 02, 04, 05, 06

Reported: Jan 19, 1998

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC011298BTEX06A	GC011298BTEX06A	GC011298BTEX06A	GC011298BTEX06A	GC011298BTEX06A
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:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	9712H8103	9712H8103	9712H8103	9712H8103	9712H8103
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/12/98	1/12/98	1/12/98	1/12/98	1/12/98
Analyzed Date:	1/12/98	1/12/98	1/12/98	1/12/98	1/12/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	10	29	52
MS % Recovery:	100	100	100	97	87
Dup. Result:	11	10	11	31	58
MSD % Recov.:	110	100	110	103	97
RPD:	9.5	0.0	9.5	6.7	11
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK011298	BLK011298	BLK011298	BLK011298	BLK011298
Prepared Date:	1/12/98	1/12/98	1/12/98	1/12/98	1/12/98
Analyzed Date:	1/12/98	1/12/98	1/12/98	1/12/98	1/12/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	11	11	11	32	58
LCS % Recov.:	110	110	110	107	97

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					

**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.

SEQUOIA ANALYTICAL

Mike Gregory  
Project Manager

\*\* 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 9-0917, Pleasanton  
Matrix: Liquid

Work Order #: 9712H86-03

Reported: Jan 19, 1998

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC010998BTEX18A	GC010998BTEX18A	GC010998BTEX18A	GC010998BTEX18A	GC010998BTEX18A
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:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	980117101	980117101	980117101	980117101	980117101
Sample Conc.:	5.7*	1.1*	1.4*	11*	25*
Prepared Date:	1/9/98	1/9/98	1/9/98	1/9/98	1/9/98
Analyzed Date:	1/9/98	1/9/98	1/9/98	1/9/98	1/9/98
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	13*	9.2*	9.4*	34*	84*
MS % Recovery:	73	81	80	77	98
Dup. Result:	6.0*	1.4*	1.5*	6.5*	27*
MSD % Recov.:	3.0	3	1.0	-15	3.0
RPD:	74*	147*	145*	136*	103*
RPD Limit:	0-25	0-25	0-25	0-25	0-25

\*Matrix interference

LCS #:	BLK010998	BLK010998	BLK010998	BLK010998	BLK010998
Prepared Date:	1/9/98	1/9/98	1/9/98	1/9/98	1/9/98
Analyzed Date:	1/9/98	1/9/98	1/9/98	1/9/98	1/9/98
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.9	9.3	9.6	30	75
LCS % Recov.:	89	93	96	100	125

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					

**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.

**SEQUOIA ANALYTICAL**

Mike Gregory  
Project Manager

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

9712H86.GET <2>



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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 #: 9712H86-07

Reported: Jan 19, 1998

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC011398BTEX06A	GC011398BTEX06A	GC011398BTEX06A	GC011398BTEX06A	GC011398BTEX06A
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:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	971231901	971231901	971231901	971231901	971231901
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98
Analyzed Date:	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	10	29	52
MS % Recovery:	100	100	100	97	87
Dup. Result:	11	11	11	33	58
MSD % Recov.:	110	110	110	110	97
RPD:	9.5	9.5	9.5	13	11
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK011398	BLK011398	BLK011398	BLK011398	BLK011398
Prepared Date:	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98
Analyzed Date:	1/13/98	1/13/98	1/13/98	1/13/98	1/13/98
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	11	11	11	33	60
LCS % Recov.:	110	110	110	110	100

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					

**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.

SEQUOIA ANALYTICAL

Mike Gregory  
Project Manager

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