Chevron

November 14, 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 Third 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. Monitoring wells MW-7, MW-8 and MW-9 were below method detection limits for all constituents.

Depth to groundwater varied from 7.49 feet to 9.74 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.** You verbally concurred with this request on August 18, 1998, however, you requested that a reading for dissolved oxygen (DO) in well MW-5 be taken prior to installing the ORC. If the DO were low than it would make sense to install the ORC into MW-5. There was miscommunication with our consultant and the DO was not taken in this sampling event. However, it will be performed in the 4th Quarter.

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

Lamorinda Development & Investment
89 Davis Road, Suite 260
Orinda, CA 94563

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

Ms. Bette Owen, Chevron

GETTLER-RYAN INC.

October 23, 1998

Job #5242.80

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

Re: Third 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 September 16, 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
Project Coordinator

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

REGISTERED GEOLOGIST
BARBARA SIEMINSKI
No. 6676
STATE OF CALIFORNIA

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

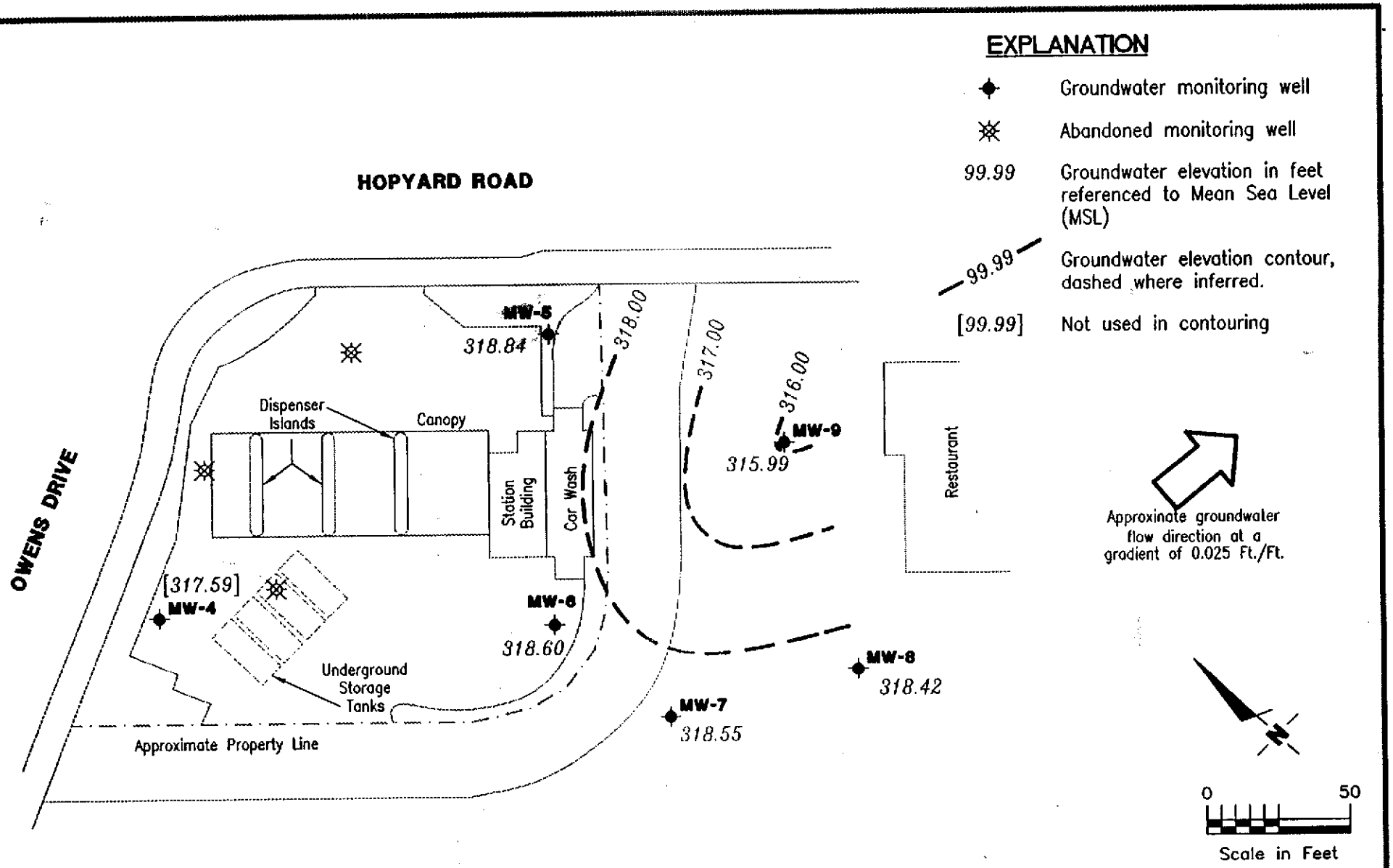

FIGURE 1

Gettler - Ryan Inc.

6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

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

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5242		September 16, 1998	

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)	B	T	E	X	MTBE
					<----------ppb---------->					
MW-1[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[1]/ 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[1]/ 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[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
	9/16/98	**9.34**	**317.59**	**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[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[2]	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

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-5 (cont)	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
	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	220	290
	9/16/98	**8.98**	**318.84**	**0**	**9,700**	**2,700**	**52**	**1,400**	**210**	**<250**
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[5]	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	340	29	<2.5	7.1	<2.5	18
	9/16/98	**9.22**	**318.60**	**0**	**340**	**18**	**1.4**	**5.6**	**<1.0**	**18**
MW-7/ 326.37**	6/17/97[5]	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

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-7 (cont)	6/29/98	7.98	318.39	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/16/98	**7.82**	**318.55**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-8/ 325.89**	6/17/97[5]	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
	6/29/98	7.91	317.98	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	9/16/98	**7.47**	**318.42**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
MW-9/ 325.73**	6/20/97[5]	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
	9/16/98	**9.74**	**315.99**	**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

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---------->					
Trip Blank (cont)	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
	9/16/98	**---**	**---**	**---**	**<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	---

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.

5242.tqm

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-0917 Job#: 5242.80

Address: 5280 Hopyard Road Date: 9-16-98

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 ft.

Depth to Water 9.34 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 µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
	W/L only						

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
~~MW-~~	~~3 x 40ml/VOA~~	Y	HCL	NEI/GTEL	~~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: 9-16-98

City: Pleasanton, CA Sampler: F.Cline

Well ID MW-5 Well Condition: Okay

Well Diameter 2" in. Hydrocarbon Thickness: — in. Amount Bailed (product/water): — (gal.)

Total Depth 24' ft.

Depth to Water 8.98 ft.

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

1502 x VF 017 256 X 3 (case volume) = Estimated Purge Volume: 7.6 (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: ____

Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: ____

Starting Time: 1016 Weather Conditions: clearing warm

Sampling Time: 1024 Water Color: Clear Odor: Mild

Purging Flow Rate: 1.3 gpm. Sediment Description: Min

Did well de-water? No If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1018	2.6	7.18	3760	20.1	0.29	-6.6	
1020	5.2	7.11	7600	19.5	0.33	6.6	
1022	7.8	7.05	6320	19.5	0.16	-3.7	
1024	8.0	7.06	6900		0.20	-3.6	

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	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: 9-16-98

City: Pleasanton, CA Sampler: E.Cline

Well ID MW-6 Well Condition: Okay

Well Diameter 2" in. Hydrocarbon Thickness: — in. Amount Bailed (product/water): — (gal.)

Total Depth 25' ft.

Depth to Water 9.22 ft.

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

15.78 x VF 0.17 = 2.7 X 3 (case volume) = Estimated Purge Volume: 8.1 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: ____

Sampling Equipment: Disposable Bailer; Bailer; Pressure Bailer; Grab Sample; Other: ____

Starting Time: 9:54 Weather Conditions: Clear

Sampling Time: 1002 Water Color: Clear Odor: Mild

Purging Flow Rate: 1.4 gpm. Sediment Description: N/A

Did well de-water? ____ If yes; Time: ____ Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:56	2.8	7.12	8280	19.9	0.76	-7.4	
9:58	5.6	7.12	8670	19.4	0.54	-6.6	
10:00	8.4	7.12	8880	19.7	0.79	-6.5	
10:02	9.0	7.13	8810	19.7	0.76	-7.0	

LABORATORY INFORMATION

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

COMMENTS: ____

9/97-fieldst.frm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-0917 Job#: 5242.80

Address: 5280 Hopyard Road Date: 9-16-9E

City: Pleasanton, CA Sampler: F.Cline

Well ID MW-7 Well Condition: Okay

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth 20' ft.

Depth to Water 7.82 ft.

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

12.18 X VF 0.17 = 2.0 X 3 (case volume) = Estimated Purge Volume: 6.2 (gal.)

Purge Equipment: Disposable Bailer / Bailer / (Stack) / Suction / Grundfos / Other:

Sampling Equipment: (Disposable Bailer) / Bailer / Pressure Bailer / Grab Sample / Other:

Starting Time: 9:40 Weather Conditions: Okay

Sampling Time: 9:48 Water Color: Clear Odor: None

Purging Flow Rate: 1.1 gpm. Sediment Description: Mic.

Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:42	2.2	7.33	1138C	22.3			
9:44	4.4	7.36	298C	22.3			
9:46	6.6	7.37	297C	21.8			
9:48	7.6	7.36	298C	22.C			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	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: 9-16-9E

City: Pleasanton, CA Sampler: F.Cline

Well ID MW- 8 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth 20' ft.

Depth to Water 7.47 ft.

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

12.53 X VF 0.17 = 2.13 X 3 (case volume) = Estimated Purge Volume: 6 C / (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 warm

Sampling Time: 9:36 Water Color: clear Odor: None

Purging Flow Rate: 1.7 gpm. Sediment Description: None

Did well de-water? NC If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:30	2.2	6.97	14820	24.5			
9:32	4.4	6.86	17980	22.9			
9:34	6.6	6.86	18090	22.6			
9:36	7.0	6.85	18080	22.7			

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: 9-16-98

City: Pleasanton, CA Sampler: F. Cline

Well ID MW- 9 Well Condition: clay

Well Diameter 2" in. Hydrocarbon Thickness: C in. Amount Bailed (product/water): C (gal.)

Total Depth 20' ft.

Depth to Water 9.74 ft.

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

10.26 X VF 0.17 = 1.7 X 3 (case volume) = Estimated Purge Volume: 5.2 (gal.)

Purge Equipment: Disposable Bailer; Bailer; (Stack); Suction; Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 9:13 Weather Conditions: cloudy mornings

Sampling Time: 9:21 Water Color: clear Odor: n/a

Purging Flow Rate: 1 gpm. Sediment Description: n/a

Did well de-water? no If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
9:15	2	7.18	3260	21.6			
9:17	4	7.32	3170	21.4			
9:19	6	7.37	3320	21.0			
9:21	7	7.40	3380	20.9			

LABORATORY INFORMATION

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

COMMENTS:

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-0917
Facility Address 5280 Hopyard Road, Pleasanton, CA
Consultant Project Number 5242 SAME DAY CHECK
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Deanna Harding
(Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) Mr. Phil Briggs
(Phone) (510) 842-9135
Laboratory Name SEQ Service Code: ZZ02790
Laboratory Service Order # 9144488
Samples Collected by (Name) F. Cline
Collection Date 9.16.98
Signature

9809825

Analyses To Be Performed

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	TPH Gas + BTEX w/MTBE (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					DO NOT BILL TB-LB ANALYSIS - Remarks
TB-LB	1	2	W	TB	—	HCl	Y	X												
MW-9	2	3		G	922			X												
MW-8	3				936			X												
MW-7	4				948			X												
MW-6	5				1002			X												
MW-5	6				1015			X												

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	9-17-98/0800	John Weber	G-R Inc.	9-17-98 0900
Relinquished By (Signature) John Weber	Organization G-R INC.	Date/Time 0900 9-17-98	Received By (Signature)	Organization Seq.	Date/Time 9/17/98 1454
Relinquished By (Signature)	Organization Seq.	Date/Time 9/17/98	Received For Laboratory By (Signature)		Date/Time 9/17/98 1815

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

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Deanna Harding

Client Proj. ID: Chevron 9-0917, Pleasanton
Sample Descript: TB-LB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9809825-01

Sampled: 09/16/98
Received: 09/17/98

Analyzed: 09/23/98
Reported: 09/29/98

QC Batch Number: GC092398802005A
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	97

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-5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9809B25-06

Sampled: 09/16/98
Received: 09/17/98

Analyzed: 09/22/98
Reported: 09/29/98

QC Batch Number: GC092298802002A
Instrument ID: HP2

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**9700**
Methyl t-Butyl Ether	250	N.D.
Benzene	**50**	**2700**
Toluene	**50**	**52**
Ethyl Benzene	**50**	**1400**
Xylenes (Total)	**50**	**210**
Chromatogram Pattern:		**GAS**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	124

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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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-0917, Pleasanton	Sampled: 09/16/98
6747 Sierra Court Suite J	Sample Descript: MW-6	Received: 09/17/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/23/98
Attention: Deanna Harding	Lab Number: 9809B25-05	Reported: 09/29/98

QC Batch Number: GC092398802002A
Instrument ID: HP2

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	340
Methyl t-Butyl Ether	5.0	18
Benzene	1.0	18
Toluene	1.0	1.4
Ethyl Benzene	1.0	5.6
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		GAS

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	137 Q

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-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9809B25-04

Sampled: 09/16/98
Received: 09/17/98

Analyzed: 09/22/98
Reported: 09/29/98

QC Batch Number: GC092298802002A
Instrument ID: HP2

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	122

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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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-0917, Pleasanton	Sampled: 09/16/98
6747 Sierra Court Suite J	Sample Descript: MW-8	Received: 09/17/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/22/98
Attention: Deanna Harding	Lab Number: 9809B25-03	Reported: 09/29/98

QC Batch Number: GC092298802002A
Instrument ID: HP2

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	116

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	Client Proj. ID: Chevron 9-0917, Pleasanton	Sampled: 09/16/98
6747 Sierra Court Suite J	Sample Descript: MW-9	Received: 09/17/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/22/98
Attention: Deanna Harding	Lab Number: 9809B25-02	Reported: 09/29/98

QC Batch Number: GC092298802002A
Instrument ID: HP2

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	123

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

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-0917, Pleasanton	Received: 09/17/98
6747 Sierra Court Suite J		
Dublin, CA 94568	Lab Proj. ID: 9809B25	Reported: 09/29/98
Attention: Deanna Harding		

LABORATORY NARRATIVE

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

#Q - Surrogate coelution was confirmed.

TPH-GAS/BTEX:
Sample 9809B25-05 was diluted 2-fold.
Sample 9809B25-06 was diluted 100-fold.

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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 #: 9809B25 -01

Reported: Sep 30, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC092398802005A	GC092398802005A	GC092398802005A	GC092398802005A	GC092398802005A
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:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	8091662	8091662	8091662	8091662	8091662
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Analyzed Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	220 µg/L
Result:	18	19	19	60	230
MS % Recovery:	90	95	95	100	105
Dup. Result:	17	18	18	56	220
MSD % Recov.:	85	90	90	93	100
RPD:	5.7	5.4	5.4	6.9	4.4
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS092398	LCS092398	LCS092398	LCS092398	LCS092398
Prepared Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Analyzed Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	220 µg/L
LCS Result:	18	19	19	59	220
LCS % Recov.:	90	95	95	98	100
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	

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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Gettler Ryan/Geostrategies	Client Project ID:	Chevron 9-0917, Pleasanton	
6747 Sierra Court, Ste J	Matrix:	Liquid	
Dublin, CA 94568			
Attention: Deanna Harding	Work Order #:	9809B25-02-04, 06	Reported: Sep 30, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC092298802002A	GC092298802002A	GC092298802002A	GC092298802002A	GC092298802002A
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 #:	8091591	8091591	8091591	8091591	8091591
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/22/98	9/22/98	9/22/98	9/22/98	9/22/98
Analyzed Date:	9/22/98	9/22/98	9/22/98	9/22/98	9/22/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	360 µg/L
Result:	20	20	20	61	330
MS % Recovery:	100	100	100	102	92
Dup. Result:	20	20	20	60	330
MSD % Recov.:	100	100	100	100	92
RPD:	0.0	0.0	0.0	1.7	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS092298	LCS092298	LCS092298	LCS092298	LCS092298
Prepared Date:	9/22/98	9/22/98	9/22/98	9/22/98	9/22/98
Analyzed Date:	9/22/98	9/22/98	9/22/98	9/22/98	9/22/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	360 µg/L
LCS Result:	18	18	17	55	320
LCS % Recov.:	90	90	85	92	89
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	

SEQUOIA ANALYTICAL
Elap #1271

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Gettler Ryan/Geostrategies	Client Project ID:	Chevron 9-0917, Pleasanton	
6747 Sierra Court, Ste J	Matrix:	Liquid	
Dublin, CA 94568			
Attention: Deanna Harding	Work Order #:	9809B25-05	Reported: Sep 30, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC092398802002A	GC092398802002A	GC092398802002A	GC092398802002A	GC092398802002A
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:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	8091718	8091718	8091718	8091718	8091718
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Analyzed Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	340 µg/L
Result:	21	21	21	64	320
MS % Recovery:	105	105	105	107	94
Dup. Result:	20	20	20	61	330
MSD % Recov.:	100	100	100	102	97
RPD:	4.9	4.9	4.9	4.8	3.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS092398	LCS092398	LCS092398	LCS092398	LCS092398
Prepared Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Analyzed Date:	9/23/98	9/23/98	9/23/98	9/23/98	9/23/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	340 µg/L
LCS Result:	21	21	20	63	340
LCS % Recov.:	105	105	100	105	100
MS/MSD	60-140	60-140	60-140	60-140	
LCS	70-130	70-130	70-130	70-130	60-140
Control Limits					

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