

RD - 335



3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

JUN 15 2001

June 5, 2001

Mr. Thomas Peacock *PC*
Alameda County Health Care Service,
Department of Environmental health
1153 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

ST 101699

Subject: *Second Quarter Event of April 9, 2001,*
Groundwater Monitoring and Sampling Report
Chevron Service Station No. 9-6607
2340 Otis Drive
Alameda, California
Delta Project No. DG9-6607

PC

Dear Mr. Peacock:

Attached for your review and comment is a letter report entitled *Second Quarter Event of April 9 2001, Groundwater Monitoring and Sampling Report* for the above referenced site. This report was prepared by Delta Environmental Consultants, Inc./ Gettler-Ryan, Inc and details the results of the April 2001 ground water monitoring and sampling event.

Alameda County is currently reviewing this site for closure. Quarterly groundwater monitoring will continue until "no further action" is required.

If you have questions or comments regarding this report, please contact me at (916) 638-2732.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Jim Brownell

Jim Brownell
Project Manager

JRB (2nd Qrt 2001 QM-9-6607.doc)
Enclosures

cc: Tom Bauhs – Chevron Product Company



GETTLER-RYAN INC.

TRANSMITTAL

May 25, 2001
G-R #: 386502

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron Service Station
9-6607
2340 Otis Drive
Alameda, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	May 11, 2001	Groundwater Monitoring and Sampling Report Second Quarter - Event of April 9, 2001

COMMENTS:

Enclosed are copies of the above referenced report for your review and distribution to the following:

Mr. Thomas Peacock, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **June 7, 2001**, at which time the final report will be distributed to the following:

Mr. Wayne Weber, Chevron Station #9-6607, 2340 Otis Dr., Alameda, CA 94501
Harsh Investment Corp., 523 West Plaza, South Shore Center, Alameda, CA 94501
Mr. Greg Gurs, Gettler-Ryan Inc., 3164 Gold Camp Drive, Suite 240, Rancho Cordova, CA 95670

Enclosures



GETTLER - RYAN INC.

May 11, 2001
G-R Job #386502

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: **Second Quarter Event of April 9, 2001**
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-6607
2340 Otis Drive
Alameda, California

Dear Mr. Bauhs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

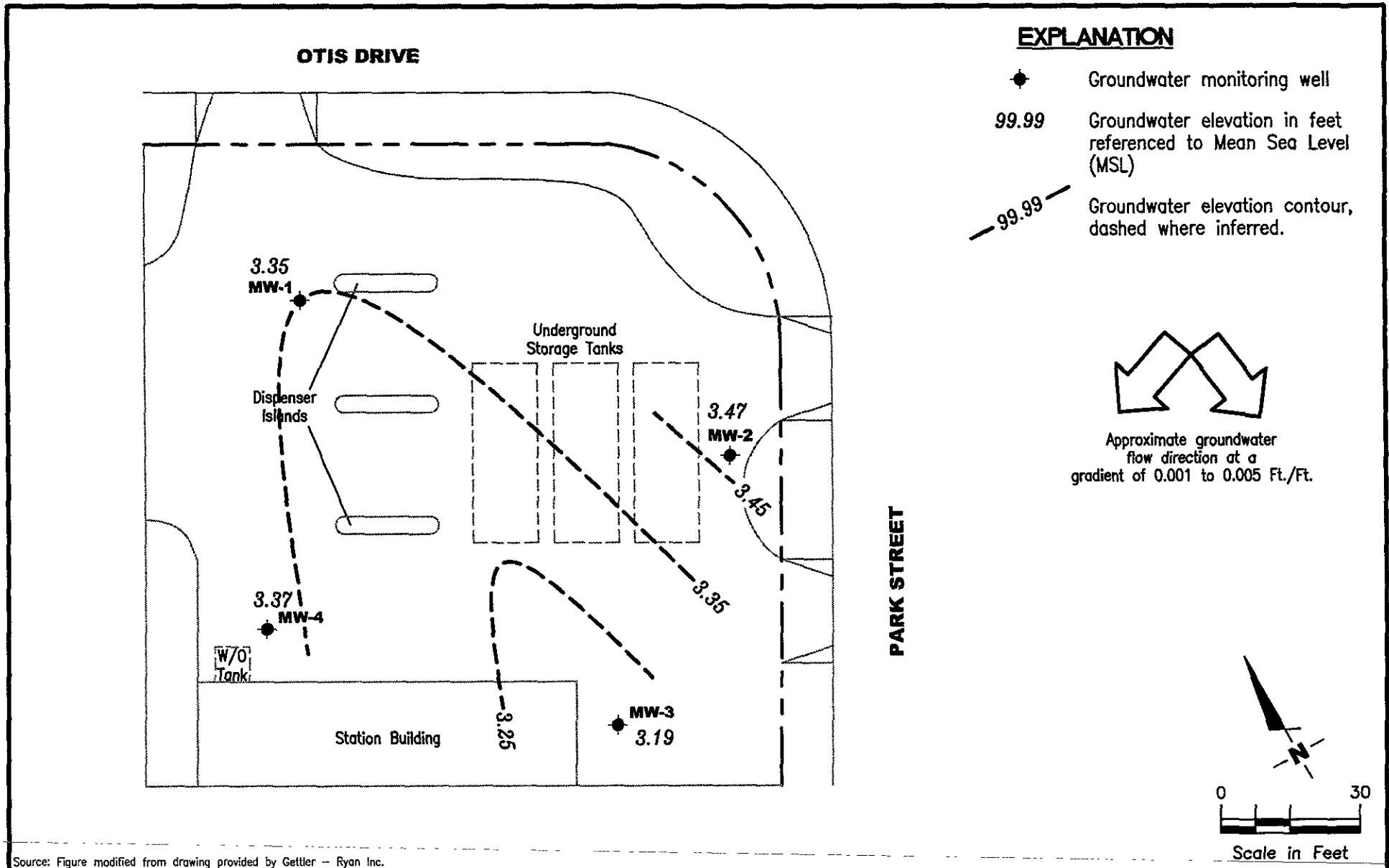
Sincerely,

Deanna L. Harding
Project Coordinator

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



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



Source: Figure modified from drawing provided by Gettler - Ryan Inc.

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

POTENTIOMETRIC MAP
 Chevron Service Station #9-6607
 2340 Otis Drive
 Alameda, California

FIGURE

1

PROJECT NUMBER
 386502

REVIEWED BY

DATE
 April 9, 2001

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-6607\Q01-9-6607.DWG | Layout Tab: Pot2

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6607
2340 Otis Drive
Alameda, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-1											
7.12	08/21/91	6.10	1.02	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/09/92	3.96	3.16	--	<50	<0.5	<0.5	<0.5	<0.5	--	<5,000
	04/20/92	3.90	3.22	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	07/25/92	4.18	2.94	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	11/24/92	4.72	2.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/21/93	3.18	3.94	--	<50	<0.5	0.7	<0.5	1.0	--	--
	04/13/93	3.70	3.42	--	<50	<0.5	<0.5	<0.5	1.0	--	--
	07/14/93	4.21	2.91	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/26/93	4.28	2.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/11/94	4.16	2.96	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	03/31/94	3.88	3.24	--	<50	<0.5	0.6	<0.5	0.7	--	--
	07/14/94	3.00	4.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/12/94 ¹	4.25	2.87	--	80	<0.5	<0.5	<0.5	<0.5	121	--
	01/11/95	3.12	4.00	--	<50	<0.5	<0.5	<0.5	<0.5	130	--
	04/05/95 ³	3.46	3.66	--	<50	<0.5	<0.5	<0.5	<0.5	170	--
	07/13/95	3.99	3.13	--	<125	<1.2	<1.2	<1.2	<1.2	400	--
	10/05/95	4.38	2.74	--	<50	<0.5	2.3	0.66	4.0	300	--
	10/03/96	4.44	2.68	--	<50	0.63	<0.5	<0.5	<0.5	560	--
	01/22/97	3.39	3.73	--	<200	<2.0	<2.0	<2.0	<2.0	530/880 ⁵	--
6.92	04/09/97 ⁶	3.70	3.22	--	<125	<1.2	<1.2	<1.2	<1.2	610	--
	07/09/97	3.87	3.05	--	240	47	<2.0	<2.0	<2.0	990	--
	10/16/97	3.97	2.95	--	250	<2.0	<2.0	<2.0	<2.0	1000	--
	01/08/98	3.45	3.47	--	<200	<2.0	<2.0	<2.0	<2.0	-- ⁸	--
	04/24/98	3.61	3.31	--	170	20	<0.5	<0.5	<0.5	1700	--
	07/15/98	3.85	3.07	--	160	58	1.1	<0.5	0.59	1,500/1,600 ⁵	--
	10/27/98	4.12	2.80	--	140	<0.5	<0.5	<0.5	<0.5	1200	--
	01/20/99	4.48	2.44	--	<250	<2.5	<2.5	<2.5	<2.5	1330	--
	04/19/99	2.71	4.21	--	150	73	<0.5	<0.5	<0.5	620	--
	07/29/99	3.97	2.95	--	142	<0.5	0.82	<0.5	2.08	824	--
	10/25/99	4.06	2.86	--	<200	<2.0	<2.0	<2.0	<2.0	972	--
	01/24/00	2.89	4.03	--	143	<0.5	<0.5	<0.5	<0.5	1170	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6607
2340 Otis Drive
Alameda, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-1	04/03/00	3.60	3.32	--	130 ⁹	22	<0.50	<0.50	<0.50	550	--
(cont)	07/03/00	4.06	2.86	--	180 ⁹	12	<1.0	<1.0	<1.0	850	--
	10/02/00 ¹¹	4.03	2.89	--	120 ¹⁰	<0.50	<0.50	<0.50	<0.50	520	--
	01/09/01	4.07	2.85	--	<250	<2.5	<2.5	<2.5	<2.5	510	--
	04/09/01	3.57	3.35	--	120	<0.500	<2.00	<0.500	<2.00	683	--
MW-2											
7.43	08/21/91	6.40	1.03	--	430	170	0.9	1.0	3.6	--	--
	01/09/92	4.23	3.20	--	58	16	<0.5	<0.5	<0.5	--	<5,000
	04/20/92	4.17	3.26	--	180	9.6	<0.5	0.8	<0.5	--	--
	07/25/92	4.47	2.96	--	220	8.0	0.7	4.0	8.6	--	--
	11/24/92	5.82	1.61	--	72	3.2	<0.5	0.5	0.6	--	--
	01/21/93	3.35	4.08	--	<50	0.8	<0.5	<0.5	<0.5	--	--
	04/13/93	4.02	3.41	--	78	<0.5	<0.5	<0.5	0.6	--	--
	07/14/93	4.49	2.94	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/26/93	4.56	2.87	--	<50	<0.5	0.9	<0.5	0.6	--	--
	01/11/94	4.39	3.04	--	<50	<0.5	1.0	<0.5	<0.5	--	--
	03/31/94	4.18	3.25	--	<50	0.5	<0.5	<0.5	0.8	--	--
	07/14/94	4.90	2.53	--	<50	<0.5	<0.5	<0.5	0.6	--	--
	10/12/94 ²	4.54	2.89	--	<50	<0.5	<0.5	<0.5	<0.5	2,900	--
	01/11/95	3.26	4.17	--	<50	<0.5	<0.5	<0.5	<0.5	2,500	--
	04/05/95 ³	3.65	3.78	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
	07/13/95	4.31	3.12	--	<250	<2.5	<2.5	<2.5	<2.5	1,100	--
	10/05/95	4.68	2.75	--	<50	<0.5	1.9	0.54	3.4	280	--
	10/03/96	4.80	2.63	--	<500	<5.0	<5.0	<5.0	<5.0	1,000	--
	01/22/97	3.36	4.07	--	540 ⁷	<5.0	<5.0	<5.0	<5.0	1,300/1,600 ⁵	--
	04/09/97	4.25	3.18	--	<500	<5.0	<5.0	<5.0	<5.0	970	--
	07/09/97	4.48	2.95	--	<125	<1.2	<1.2	<1.2	<1.2	710	--
	10/16/97	4.44	2.99	--	<100	<1.0	<1.0	<1.0	<1.0	1,000	--
	01/08/98	3.79	3.64	--	68	<0.5	<0.5	<0.5	<0.5	-- ⁸	--
	04/24/98	3.95	3.48	--	<50	<0.5	<0.5	<0.5	<0.5	490	--

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MW-2	07/15/98	4.30	3.13	--	51	1.2	1.2	<0.5	<0.5	480	--
(cont)	10/27/98	4.45	2.98	--	<50	<0.5	<0.5	<0.5	<0.5	180	--
	01/20/99	4.21	3.22	--	<50	<0.5	<0.5	<0.5	<0.5	388	--
	04/19/99	4.38	3.05	--	620	13	35	11	78	510	--
	07/29/99	4.49	2.94	--	<50	<0.5	<0.5	<0.5	<0.5	229	--
	10/25/99	4.55	2.88	--	<50	<0.5	<0.5	<0.5	<0.5	314	--
	01/24/00	2.82	4.61	--	<50	<0.5	<0.5	<0.5	<0.5	236	--
	04/03/00	4.05	3.38	--	<50	<0.50	<0.50	<0.50	<0.50	420	--
	07/03/00	4.52	2.91	--	140 ⁹	<0.50	<0.50	<0.50	0.88	1,300	--
	10/02/00	4.55	2.88	--	<1,000	<10	<10	<10	<10	1,300	--
	01/09/01	4.45	2.98	--	<1,000	<10	<10	<10	<10	1,100	--
	04/09/01	3.96	3.47	--	214	<0.500	<2.00	0.512	<2.00	1,770	--
MW-3											
8.07	08/21/91	7.10	0.97	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/09/92	5.03	3.04	--	<50	<0.5	<0.5	<0.5	<0.5	--	<5,000
	04/20/92	4.91	3.16	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	07/25/92	5.34	2.73	--	<50	1.0	1.0	1.0	3.4	--	--
	11/24/92	5.00	3.07	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/21/93	4.34	3.73	--	<50	<0.5	0.5	<0.5	1.0	--	--
	04/13/93	4.84	3.23	--	<50	<0.5	<0.5	<0.5	0.6	--	--
	07/14/93	5.29	2.78	--	<50	<0.5	<0.5	<0.5	2.0	--	--
	10/26/93	5.36	2.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/11/94	5.22	2.85	--	<50	<0.5	1.0	<0.5	<0.5	--	--
	03/31/94	4.99	3.08	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	07/14/94	5.36	2.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/12/94	5.02	3.05	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/11/95	4.35	3.72	--	<50	<0.5	<0.5	<0.5	0.7	<5.0	--
	04/05/95 ³	2.64	5.43	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	07/13/95	5.13	2.94	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/05/95	5.46	2.61	--	<50	<0.5	1.2	<0.5	<0.5	--	--

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Chevron Service Station #9-6607
2340 Otis Drive
Alameda, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-3	10/03/96	5.53	2.54	--	<50	0.98	1.2	0.53	2.5	<2.5	--
(cont)	01/22/97	4.62	3.45	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
8.00	04/09/97 ^b	5.05	2.95	SAMPLED ANNUALLY		--	--	--	--	--	--
	07/09/97	5.14	2.86	--	--	--	--	--	--	--	--
	10/16/97	5.20	2.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	01/08/98	4.75	3.25	--	<50	<0.5	<0.5	<0.5	<0.5	9.3	--
	04/24/98	4.73	3.27	--	--	--	--	--	--	--	--
	07/15/98	5.07	2.93	--	--	--	--	--	--	--	--
	10/27/98	5.24	2.76	--	--	--	--	--	--	--	--
	01/20/99	5.18	2.82	--	<50	<0.5	<0.5	<0.5	<0.5	42.2	--
	04/19/99	4.26	3.74	--	--	--	--	--	--	--	--
	07/29/99	5.18	2.82	--	--	--	--	--	--	--	--
	10/25/99	5.27	2.73	--	--	--	--	--	--	--	--
	01/24/00	4.22	3.78	--	<50	<0.5	<0.5	<0.5	<0.5	71.1	--
	04/03/00	4.90	3.10	--	--	--	--	--	--	--	--
NP	07/03/00	5.25	2.75	--	--	--	--	--	--	--	--
	10/02/00	5.29	2.71	--	--	--	--	--	--	--	--
	01/09/01	5.27	2.73	--	<50	<0.50	<0.50	<0.50	<0.50	120	--
	04/09/01	4.81	3.19	--	--	--	--	--	--	--	--
MW-4	08/21/91	6.85	1.00	--	<50	0.6	<0.5	<0.5	<0.5	--	<5,000
7.85	01/09/92	4.70	3.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	<5,000
	04/20/92	4.64	3.21	--	<50	<0.5	<0.5	<0.5	<0.5	--	<5,000
	07/25/92	4.95	2.90	78	<50	0.5	1.1	<0.5	0.8	--	--
	11/24/92	5.42	2.43	--	<50	<0.5	<0.5	<0.5	1.0	--	<5,000
	01/21/93	4.07	3.78	<10	<50	<0.5	0.5	<0.5	0.7	--	--
	04/13/93	4.45	3.40	<10	<50	<0.5	<0.5	<0.5	1.0	--	--
	07/14/93	4.90	2.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/26/93	4.95	2.90	--	<50	2.0	3.0	2.0	3.0	--	--
	01/11/94	4.77	3.08	--	<50	<0.5	0.5	<0.5	<0.5	--	--
	03/31/94	4.65	3.20	--	<50	<0.5	<0.5	<0.5	1.0	--	--

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6607
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Alameda, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-4	07/14/94	5.05	2.80	--	<50	0.9	1.2	<0.5	2.0	--	--
(cont)	10/12/94	4.88	2.97	--	<50	<0.5	0.9	<0.5	0.7	--	--
	01/11/95	4.00	3.85	--	<50	<0.5	0.8	0.7	1.5	<5.0	--
	04/05/95 ⁴	4.22	3.63	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	<5,000
	07/13/95	4.71	3.14	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/05/95	5.02	2.83	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/03/96	5.08	2.77	--	100	5.5	5.6	2.5	12	<2.5	--
	01/22/97	4.28	3.57	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	04/09/97	4.60	3.25	SAMPLED ANNUALLY		--	--	--	--	--	--
	07/09/97	4.79	3.06	--	--	--	--	--	--	--	--
	10/16/97	4.81	3.04	--	<50	<0.5	<0.5	<0.5	<0.5	2.7	--
	01/08/98	4.37	3.48	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	04/24/98	4.34	3.51	--	--	--	--	--	--	--	--
	07/15/98	4.46	3.39	--	--	--	--	--	--	--	--
	10/27/98	4.52	3.33	--	--	--	--	--	--	--	--
	01/20/99	4.32	3.53	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
	04/19/99	4.07	3.78	--	--	--	--	--	--	--	--
	04/19/99	4.87	2.98	--	--	--	--	--	--	--	--
	10/25/99	4.90	2.95	--	--	--	--	--	--	--	--
	01/24/00	4.32	3.53	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	04/03/00	4.38	3.47	--	--	--	--	--	--	--	--
NP	07/03/00	4.88	2.97	--	--	--	--	--	--	--	--
	10/02/00	4.89	2.96	--	--	--	--	--	--	--	--
	01/09/01	4.93	2.92	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
	04/09/01	4.48	3.37	--	--	--	--	--	--	--	--
TRIP BLANK	01/21/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
TB-LB	04/13/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	07/14/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/26/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/11/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6607
2340 Otis Drive
Alameda, California

WELL ID/ TOC*	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
TB-LB	03/31/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
(cont)	07/14/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/12/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/11/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	04/05/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	07/13/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/05/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	10/03/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
	01/22/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	04/09/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	07/09/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	10/16/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	01/08/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	04/24/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	07/15/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	10/27/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	01/20/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
	04/19/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	07/29/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	01/24/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	04/03/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--
	07/03/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
	10/02/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
	01/09/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
	04/09/01	--	--	--	<50.0	<0.500	<2.00	<0.500	<2.00	<0.500	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6607
2340 Otis Drive
Alameda, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to April 3, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

DTW = Depth to Water

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

TOG = Total Oil and Grease

(ppb) = Parts per billion

NP = No Purge

-- = Not Measured/Not Analyzed

* TOC elevations are relative to msl.

¹ Laboratory report indicates Volatile Organic Compounds (VOCs) were <5.0-<50 ppb.

² Laboratory report indicates VOCs were <50-<500 ppb.

³ Laboratory report indicates Polynuclear Aromatics (PNAs) were <5.0 ppb.

⁴ Laboratory report indicates VOCs were <5.0 ppb.

⁵ Confirmation of MTBE.

⁶ Wellhead elevation altered due to maintenance.

⁷ Chromatogram pattern indicates an unidentified hydrocarbon.

⁸ No value for MTBE could be determined; see laboratory report.

⁹ Laboratory report indicates gasoline C6-C12.

¹⁰ Laboratory report indicates unidentified hydrocarbons C6-C12.

¹¹ Laboratory report indicates this sample was analyzed outside the EPA recommended holding time.

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 an 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**

Client/ Facility CHEVRON SS # 9-6607 Job#: 386502
 Address: 2340 OTIS DR. Date: 4-9-01
 City: ALAMEDA, CA Sampler: FRANK T.

Well ID MW-1 Well Condition: O'k'
 Well Diameter 4" in. Hydrocarbon Amount Bailed
 Thickness: 0 (feet) (product/water): 0 (Gallons)
 Total Depth 22.78 ft.
 Depth to Water 3.57 ft.

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

19.21 X VF .66 = 12.67 X 3 (case volume) = Estimated Purge Volume: 38.03 (gal.)

Purge Equipment: Disposable Bailer (Stack) Suction Grundfos Other: _____
 Sampling Equipment: (Disposable Bailer) Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 4:14 Weather Conditions: SUNNY / WINDY
 Sampling Time: 4:45 Water Color: CLEAR Odor: NO
 Purging Flow Rate: 2.0 gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>4:21</u>	<u>12.5</u>	<u>6.89</u>	<u>470</u>	<u>66.7</u>			
<u>4:28</u>	<u>25.0</u>	<u>6.83</u>	<u>486</u>	<u>66.3</u>			
<u>4:35</u>	<u>38.0</u>	<u>6.79</u>	<u>508</u>	<u>67.3</u>			
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH/G/BTEX/MTBE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility CHEVRON SS # 9-6607 Job#: 386502
 Address: 2340 OTIS DR. Date: 4-9-01
 City: ALAMEDA, CA Sampler: FRANK T.

Well ID MW-2 Well Condition: OK
 Well Diameter 4" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth 23.35 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 3.96 ft. Factor (VF) 6" = 1.50 12" = 5.80

19.39 x VF .66 = 12.79 x 3 (case volume) = Estimated Purge Volume: 38.39 (gal.)

Purge Equipment: Disposable Bailer (Stack) Suction Grundfos Other: _____
 Sampling Equipment: (Disposable Bailer) Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 5:00 Weather Conditions: SUNNY
 Sampling Time: 5:32 Water Color: CLEAR Odor: NO
 Purging Flow Rate: 2.0 gpm. Sediment Description: _____
 Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm} \times 100$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>5:07</u>	<u>12.5</u>	<u>6.87</u>	<u>381</u>	<u>62.6</u>			
<u>5:14</u>	<u>25.0</u>	<u>6.80</u>	<u>373</u>	<u>63.0</u>			
<u>5:21</u>	<u>38.0</u>	<u>6.76</u>	<u>368</u>	<u>62.7</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3x VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH/G/BTEX/MTBE</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility CHEVRON
SS # 9-6607
 Address: 2340 OTIS DR.
 City: ALAMEDA, CA

Job#: 386502
 Date: 4-9-01
 Sampler: FRANK T.

Well ID MW-3

Well Condition: OK

Well Diameter 4" in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 23.38 ft.

Depth to Water 4.81 ft.

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

N/A x VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: N/A
 Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: N/A
 Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: _____
 Sampling Time: _____
 Purging Flow Rate: _____ gpm.
 Did well de-water? _____

Weather Conditions: _____
 Water Color: _____ Odor: _____
 Sediment Description: _____
 If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ hos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	VDA VIAL	Y	HCL	SEQUOIA	TPHG/BTEX/MTBE

COMMENTS: "MONITORED ONLY"

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/ Facility CHEVRON SS # 9-6607 Job#: 386502
 Address: 2340 OTIS DR. Date: 4-9-01
 City: ALAMEDA, CA Sampler: FRANK T.

Well ID MW-4 Well Condition: O'k'
 Well Diameter 4" in. Hydrocarbon Thickness: 0 (feet) Amount Bailed: 0 (Gallons)
 Total Depth 20.19 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 4.48 ft. 6" = 1.50 12" = 5.80

N/A X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
N/A Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
N/A 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 μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-</u>	<u>VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHG / BTEX / MTBE</u>

COMMENTS: "MONITORED ONLY"



Sequoia Analytical

404 N. Wlget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

25 April, 2001

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Chevron
Sequoia Report: W104273

Enclosed are the results of analyses for samples received by the laboratory on 11-Apr-01 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dimple Sharma For Charlie Westwater
Project Manager

CA ELAP Certificate #1271



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 9-6607
Project Manager: Deanna L. Harding

Reported:
25-Apr-01 14:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TBLB	W104273-01	Water	09-Apr-01 00:00	11-Apr-01 17:10
MW-1	W104273-02	Water	09-Apr-01 16:45	11-Apr-01 17:10
MW-2	W104273-03	Water	09-Apr-01 17:32	11-Apr-01 17:10



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 9-6607
Project Manager: Deanna L. Harding

Reported:
25-Apr-01 14:39

**Total Petroleum Hydrocarbons as Gasoline by EPA 8015M
Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TBLB (W104273-01) Water Sampled: 09-Apr-01 00:00 Received: 11-Apr-01 17:10									
Gasoline	ND	50.0	ug/l	1	1040385	18-Apr-01	19-Apr-01	EPA 8015M-VOA	
MW-1 (W104273-02) Water Sampled: 09-Apr-01 16:45 Received: 11-Apr-01 17:10									
Gasoline	120	50.0	ug/l	1	1040385	18-Apr-01	19-Apr-01	EPA 8015M-VOA	T4
MW-2 (W104273-03) Water Sampled: 09-Apr-01 17:32 Received: 11-Apr-01 17:10									
Gasoline	214	50.0	ug/l	1	1040385	18-Apr-01	19-Apr-01	EPA 8015M-VOA	T4



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 9-6607
Project Manager: Deanna L. Harding

Reported:
25-Apr-01 14:39

BTEX+MTBE by EPA Method 8021B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TBLB (W104273-01) Water Sampled: 09-Apr-01 00:00 Received: 11-Apr-01 17:10									G15,G2
Benzene	ND	0.500	ug/l	1	1040385	18-Apr-01	19-Apr-01	EPA 8021B	
Toluene	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-BFB</i>		94.0 %	86.0-142	"	"	"	"	"	
MW-1 (W104273-02) Water Sampled: 09-Apr-01 16:45 Received: 11-Apr-01 17:10									G15,G2
Benzene	ND	0.500	ug/l	1	1040385	18-Apr-01	19-Apr-01	EPA 8021B	
Toluene	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Total Xylenes	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	683	2.50	"	5	"	"	20-Apr-01	"	G12
<i>Surrogate: 4-BFB</i>		91.0 %	86.0-142	"	"	"	19-Apr-01	"	
MW-2 (W104273-03) Water Sampled: 09-Apr-01 17:32 Received: 11-Apr-01 17:10									G15,G2
Benzene	ND	0.500	ug/l	1	1040385	18-Apr-01	19-Apr-01	EPA 8021B	
Toluene	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	0.512	0.500	"	"	"	"	"	"	
Total Xylenes	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	1770	5.00	"	10	"	"	20-Apr-01	"	G12
<i>Surrogate: 4-BFB</i>		93.0 %	86.0-142	"	"	"	19-Apr-01	"	





Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 9-6607
Project Manager: Deanna L. Harding

Reported:
25-Apr-01 14:39

**Total Petroleum Hydrocarbons as Gasoline by EPA 8015M - Quality Control
Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040385 - EPA 5030B (P/T)										
Blank (1040385-BLK1) Prepared: 18-Apr-01 Analyzed: 19-Apr-01										
Gasoline	ND	50.0	ug/l							
LCS (1040385-BS2) Prepared: 18-Apr-01 Analyzed: 19-Apr-01										
Gasoline	1860	50.0	ug/l	2000		93.0	80.0-120			
Matrix Spike (1040385-MS2) Source: B104212-02 Prepared: 18-Apr-01 Analyzed: 20-Apr-01										
Gasoline	2300	50.0	ug/l	2000	91.3	110	80.0-120			
Matrix Spike Dup (1040385-MSD2) Source: B104212-02 Prepared: 18-Apr-01 Analyzed: 20-Apr-01										
Gasoline	2220	50.0	ug/l	2000	91.3	106	80.0-120	3.70	20.0	



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

Project: Chevron
Project Number: Chevron # 9-6607
Project Manager: Deanna L. Harding

Reported:
25-Apr-01 14:39

**BTEX+MTBE by EPA Method 8021B - Quality Control
Great Lakes Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040385 - EPA 5030B (P/T)										
Blank (1040385-BLK1) Prepared: 18-Apr-01 Analyzed: 19-Apr-01										
Benzene	ND	0.500	ug/l							
Toluene	ND	2.00	"							
Ethylbenzene	ND	0.500	"							
Total Xylenes	ND	2.00	"							
Methyl tert-butyl ether	ND	0.500	"							
<i>Surrogate: 4-BFB</i>	21.2		"	20.0		106	86.0-142			
LCS (1040385-BS1) Prepared: 18-Apr-01 Analyzed: 19-Apr-01										
Benzene	24.7	0.500	ug/l	25.0		98.8	85.0-115			
Toluene	26.4	0.500	"	25.0		106	85.0-115			
Ethylbenzene	24.4	0.500	"	25.0		97.6	85.0-115			
Total Xylenes	76.4	0.500	"	75.0		102	85.0-115			
Methyl tert-butyl ether	22.0	0.500	"	25.0		88.0	85.0-115			
<i>Surrogate: 4-BFB</i>	19.4		"	20.0		97.0	86.0-142			
Matrix Spike (1040385-MS1) Source: B104212-02 Prepared: 18-Apr-01 Analyzed: 20-Apr-01										
Benzene	34.5	0.500	ug/l	25.0	22.0	50.0	74.3-134			
Toluene	12.6	0.500	"	25.0	3.36	37.0	63.8-141			
Ethylbenzene	10.7	0.500	"	25.0	0.751	39.8	64.3-140			
Total Xylenes	32.2	0.500	"	75.0	2.14	40.1	67.6-143			
Methyl tert-butyl ether	11.0	0.500	"	25.0	ND	44.0	67.2-157			
<i>Surrogate: 4-BFB</i>	20.1		"	20.0		101	86.0-142			
Matrix Spike Dup (1040385-MSD1) Source: B104212-02 Prepared: 18-Apr-01 Analyzed: 20-Apr-01										
Benzene	30.7	0.500	ug/l	25.0	22.0	34.8	74.3-134	35.8		21.1
Toluene	12.0	0.500	"	25.0	3.36	34.6	63.8-141	6.70		17.5
Ethylbenzene	10.1	0.500	"	25.0	0.751	37.4	64.3-140	6.22		17.5
Total Xylenes	30.0	0.500	"	75.0	2.14	37.1	67.6-143	7.77		17.6
Methyl tert-butyl ether	10.2	0.500	"	25.0	ND	40.8	67.2-157	7.55		27.9
<i>Surrogate: 4-BFB</i>	18.9		"	20.0		94.5	86.0-142			



Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin CA, 94568

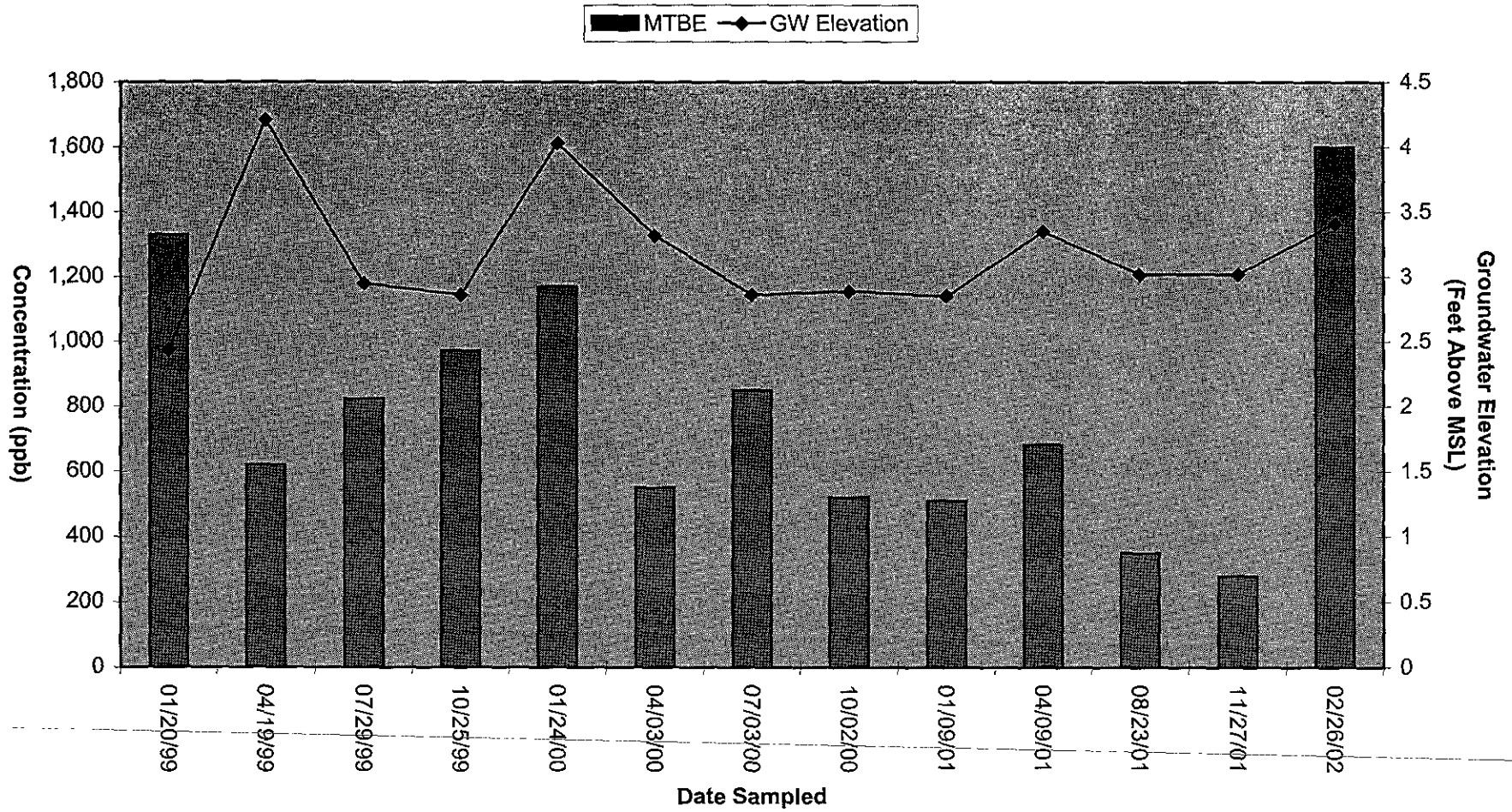
Project: Chevron
Project Number: Chevron # 9-6607
Project Manager: Deanna L. Harding

Reported:
25-Apr-01 14:39

Notes and Definitions

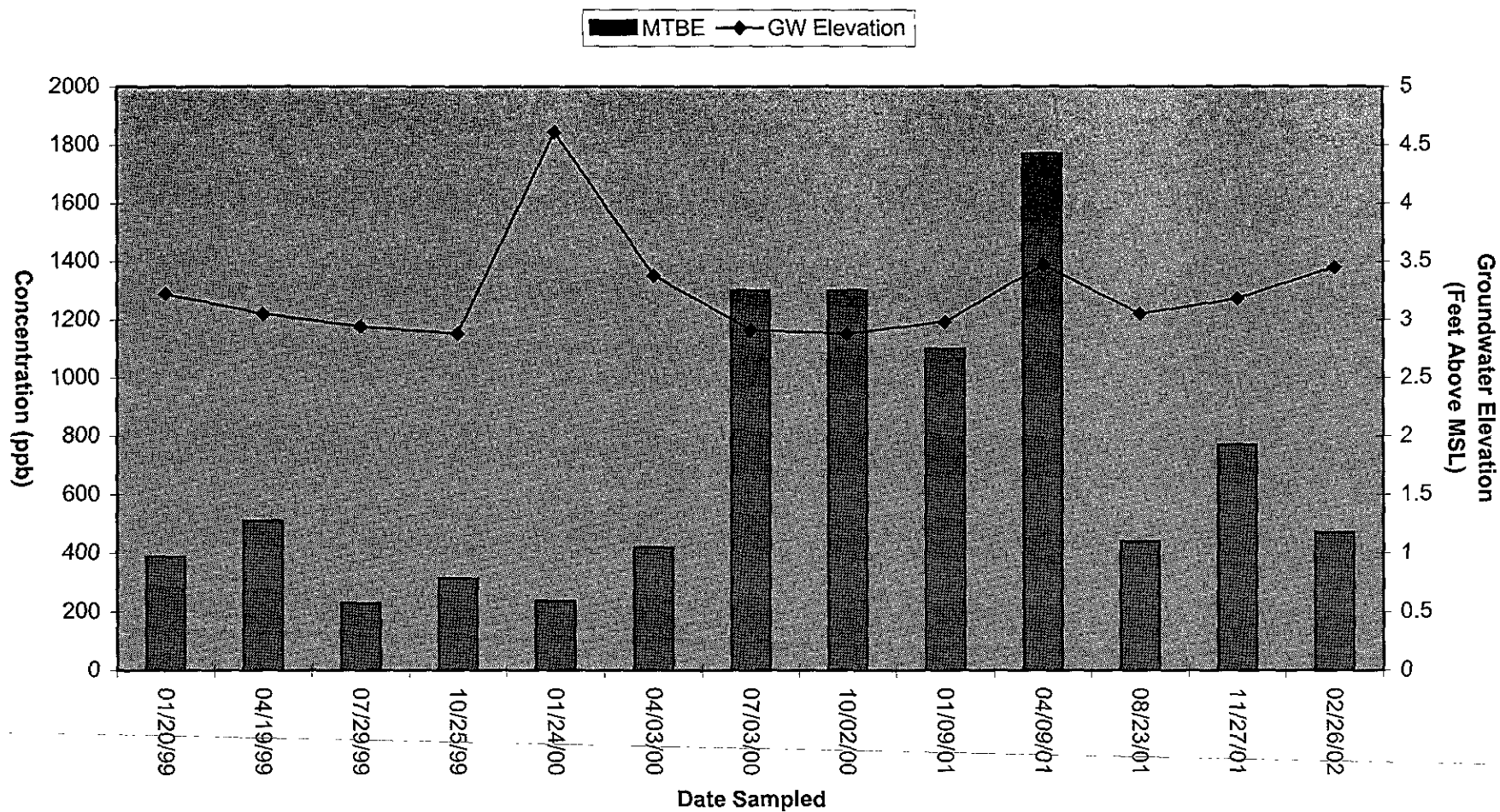
- G12 The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
- G15 The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
- G2 The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
- T4 Gas Range
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Chevron Service Station No. 9-6607
2340 Otis Drive
Alameda, California
MW-1



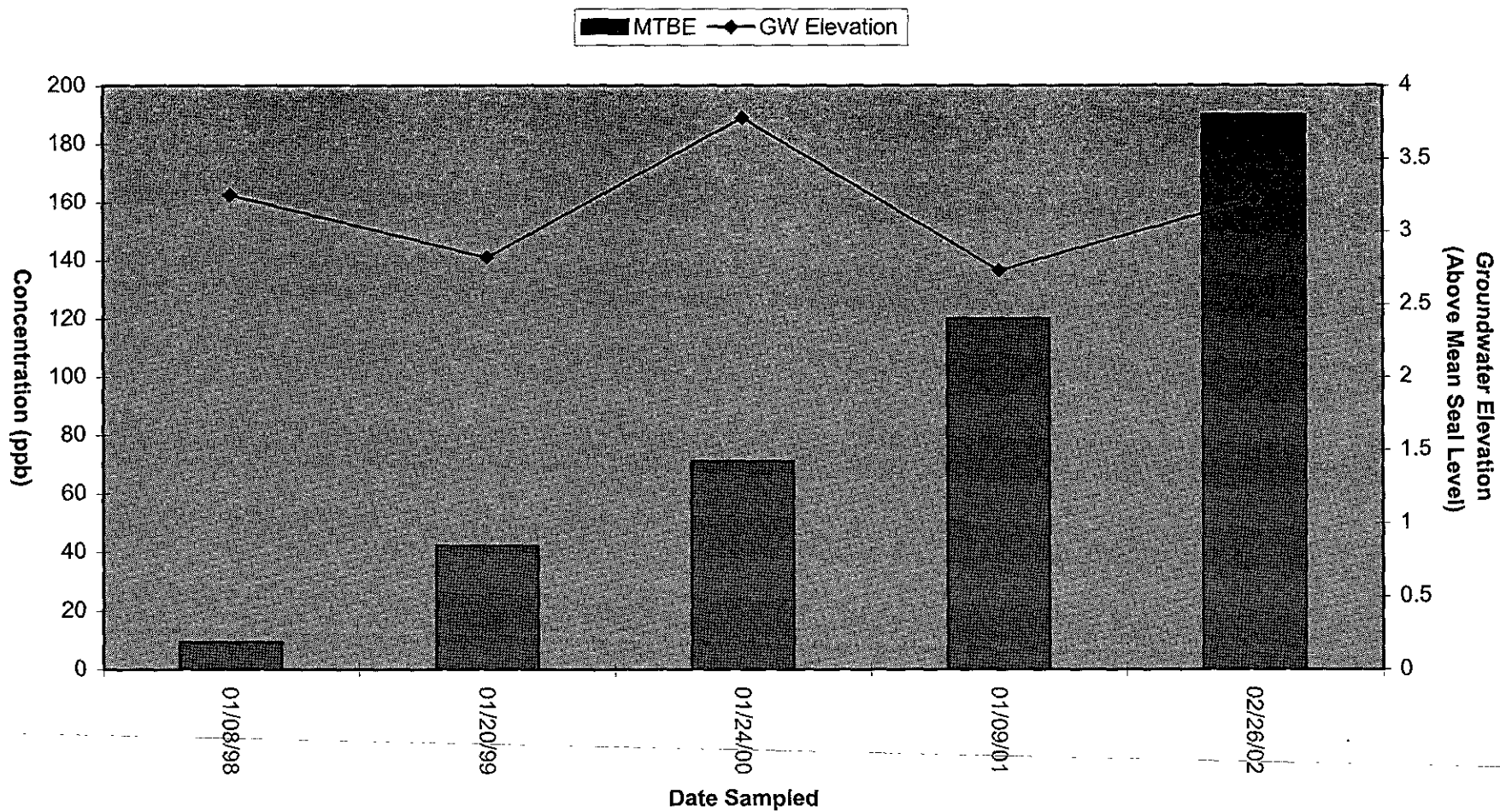
R0335

Chevron Service Station No. 9-6607
2340 Otis Drive
Alameda, California
MW-2



MW-3

Chevron Service Station No. 9-6607
2340 Otis Drive
Alameda, California
MW-3



MW-1		
Date	MTBE	GW Elevation
01/20/99	1,330	2.44
04/19/99	620	4.21
07/29/99	824	2.95
10/25/99	972	2.86
01/24/00	1,170	4.03
04/03/00	550	3.32
07/03/00	850	2.86
10/02/00	520	2.89
01/09/01	510	2.85
04/09/01	683	3.35
08/23/01	350	3.02
11/27/01	280	3.02
02/26/02	1,600	3.41

MW-3		
Date	MTBE	GW Elevation
01/08/98	9.3	3.25
01/20/99	42	2.82
01/24/00	71	3.78
01/09/01	120	2.73
02/26/02	190	3.22

MW-4		
Date	MTBE	GW Elevation
01/08/98	2.5	3.25
01/20/99	2	2.82
01/24/00	2.5	3.78
01/09/01	2.5	2.73
02/26/02	2.5	3.22

MW-2		
Date	MTBE	GW Elevation
01/20/99	388	3.22
04/19/99	510	3.05
07/29/99	229	2.94
10/25/99	314	2.88
01/24/00	236	4.61
04/03/00	420	3.38
07/03/00	1300	2.91
10/02/00	1300	2.88
01/09/01	1100	2.98
04/09/01	1770	3.47
08/23/01	440	3.05
11/27/01	770	3.18
02/26/02	470	3.45