GETTLER-RYAN INC.

MAY 24 2002

TRANSMITTAL

P0475

May 7, 2002
G-R #385296

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

CC: Ms. Karen Streich
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
#9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 1, 2002	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of December 17, 2001 and First Quarter - Event of March 21, 2002

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***May 21, 2002***, at which time the final report will be distributed to the following:

cc: Mr. Amir Gholami, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Chuck Headlee, RWQCB-San Francisco Bay Region, 1515 Clay Street, Oakland, CA 94612
Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

6747 Sierra Court, Suite J • Dublin, California 94568 • (925) 551-7555

GETTLER-RYAN INC.

May 1, 2002
G-R Job #385296

Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: Fourth Quarter Event of December 17, 2001
First Quarter Event of March 21, 2002
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

Dear Ms. Streich:

This report documents the most recent groundwater monitoring and sampling events 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. Potentiometric Maps are included as Figures 1 and 2.

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.

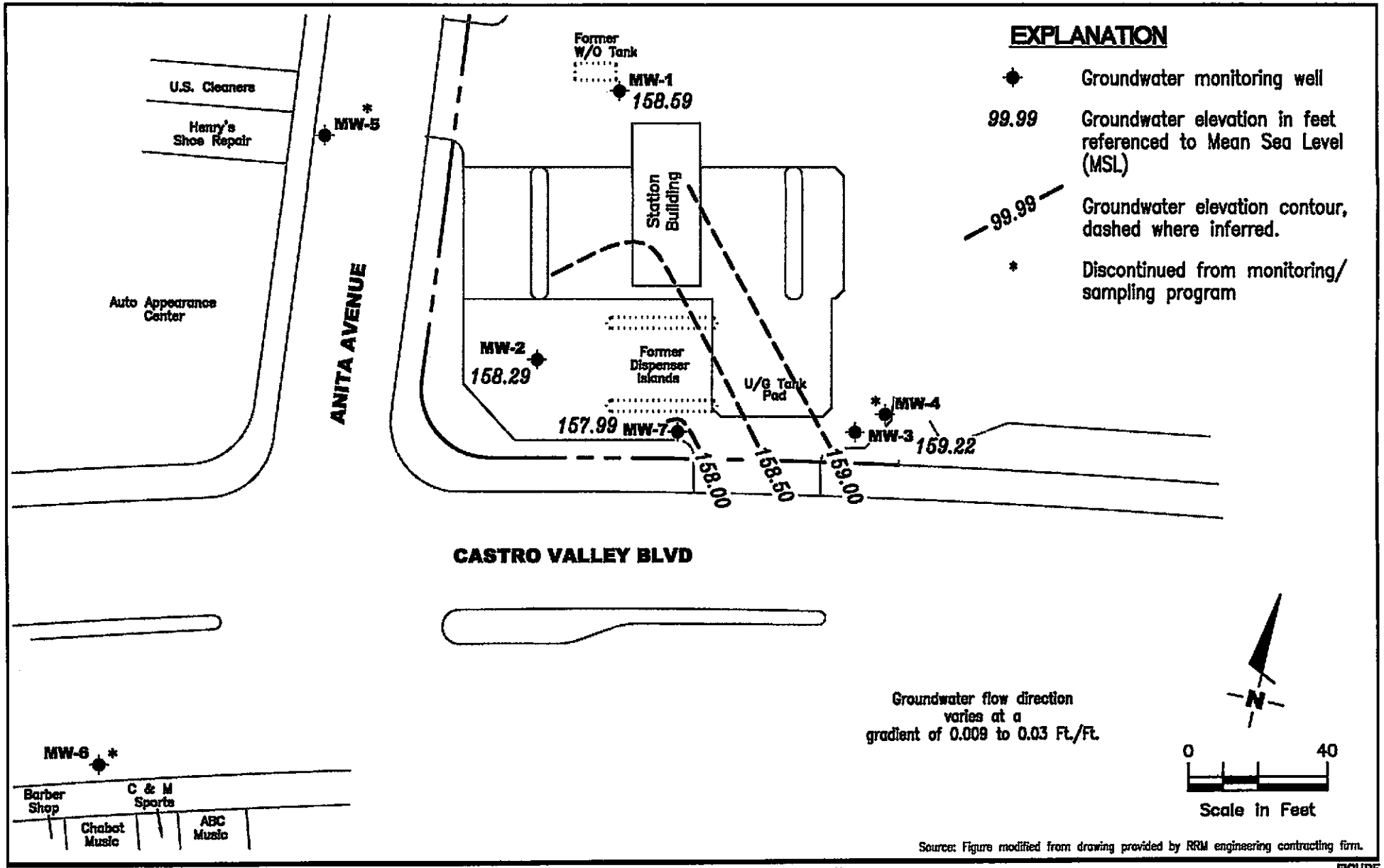
Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
P.E. No. C55734

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/04
CIVIL
STATE OF CALIFORNIA

Figure 1: Potentiometric Map - December 17, 2001
Figure 2: Potentiometric Map - March 21, 2002
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 RRM engineering contracting firm.

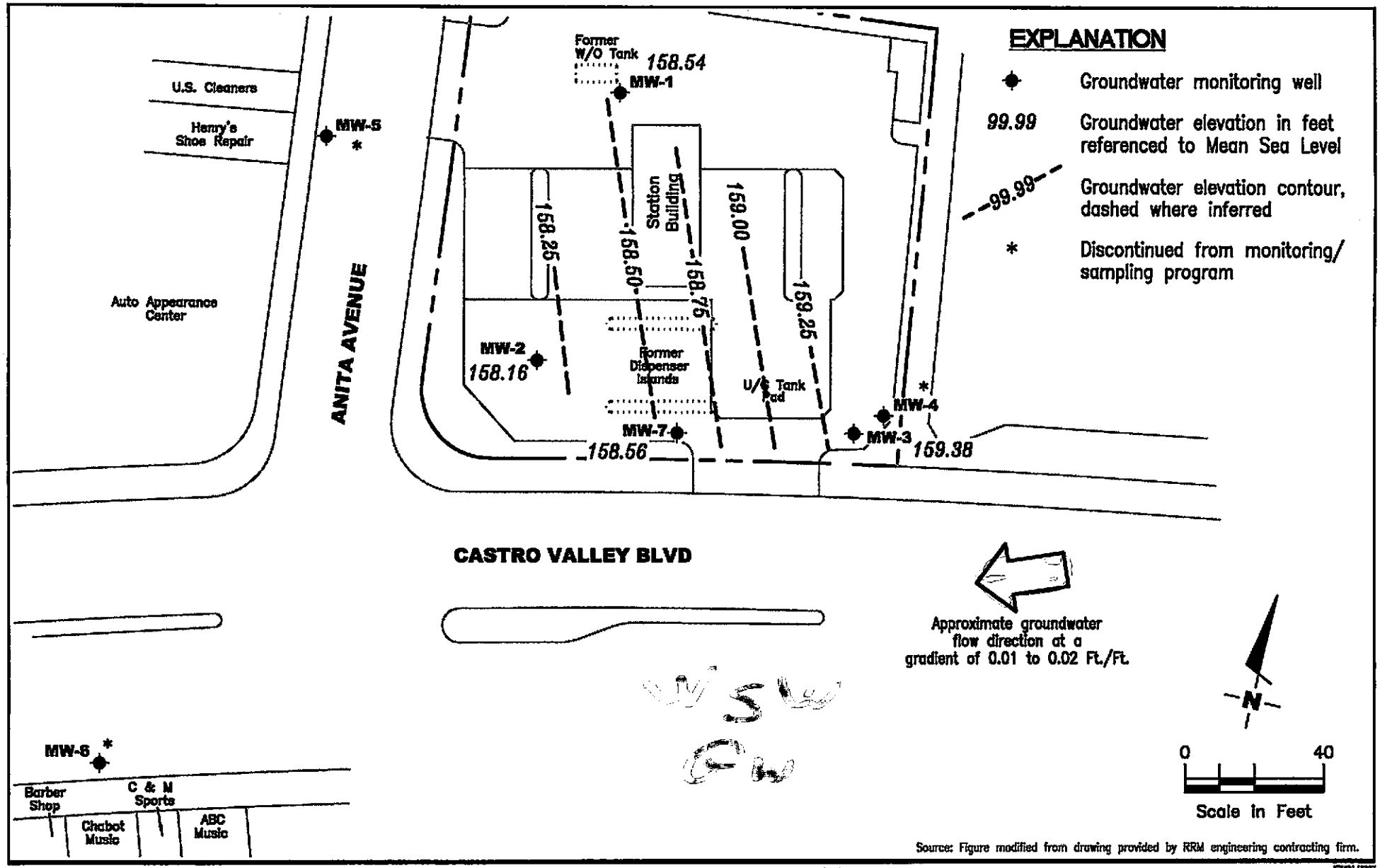
GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
385296		December 17, 2001	

FILE NAME: P:\Enviro\Chevron\9-6991\Q01-9-6991.DWG | Layout Tab: Plot4



Source: Figure modified from drawing provided by RRM engineering contracting firm.

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POTENTIOMETRIC MAP
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

FIGURE
2

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
385296		March 21, 2002	

FILE NAME: P:\Enviro\Chevron\9-6991\002-9-6991.dwg | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-1											
10/08/91	169.30	158.20	11.10	--	230	45	<0.5	0.9	9.1	--	<5,000
11/04/91	169.30	158.27	11.03	--	340	120	<0.5	<0.5	6.1	--	--
12/04/91	169.30	158.25	11.05	170	<50	3.9	<0.5	<0.5	<0.5	--	<5,000
06/05/92	169.30	158.26	11.04	<50	100	26	0.6	0.5	1.0	--	--
10/27/92	169.30	158.20	11.10	54	<50	11	<0.5	<0.5	<0.5	--	--
12/30/92	169.30	--	--	170	<50	24	<0.5	<0.5	<0.5	--	--
01/27/93	169.30	158.67	10.63	--	--	--	--	--	--	--	--
03/05/93	169.30	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/17/93	169.30	158.59	10.71	--	--	--	--	--	--	--	--
06/18/93	169.30	158.29	11.01	<50	<50	0.6	<0.5	<0.5	<1.5	--	--
09/28/93	169.30	157.35	11.95	<50	<50	0.8	<0.5	<0.5	<1.5	--	--
12/30/93	169.30	158.34	10.96	<50	<50	8.5	<0.5	<0.5	<0.5	--	--
04/07/94	169.30	158.49	10.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/31/94	169.30	158.38	10.92	<50	<50	1.0	<0.5	<0.5	<0.5	--	--
09/23/94	169.30	158.40	10.90	<50	<50	1.3	<0.5	<0.5	<0.5	--	--
11/30/94	169.30	158.76	10.54	570[2]	<50	8.9	<0.5	<0.5	<0.5	--	--
03/30/95	169.30	158.60	10.70	110[1]	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/06/95	169.30	158.38	10.92	570[1]	61	15	<0.5	<0.5	<0.5	--	--
09/25/95	169.30	158.30	11.00	550[1]	<50	4.7	<0.5	<0.5	<0.5	--	--
12/28/95	169.30	158.50	10.80	330[1]	72	9.1	0.65	<0.5	<0.5	6.0	--
03/05/96	169.30	159.20	10.10	780[1]	<50	7.8	<0.5	<0.5	<0.5	<2.5	--
09/13/96	169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--
12/19/96	169.30	158.08	11.22	--	--	--	--	--	--	--	--
03/20/97	169.30	158.40	10.90	350[1]	<50	2.2	<0.5	<0.5	<0.5	<2.5	--
06/27/97	169.30	158.27	11.03	--	--	--	--	--	--	--	--
09/19/97	169.30	158.34	10.96	--	--	--	--	--	--	--	--
12/05/97	169.30	158.62	10.68	--	--	--	--	--	--	--	--
03/31/98	169.30	158.67	10.63	760[1]	<50	6.7	<0.5	<0.5	<0.5	<2.5	--
06/19/98	169.30	159.62	9.68	--	--	--	--	--	--	--	--
08/13/98	169.30	157.67	11.63	--	--	--	--	--	--	--	--
12/17/98	169.30	158.25	11.05	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-1 (cont)												
03/19/99		169.30	158.35	10.95	890[1]	124	14.8	<0.5	<0.5	<0.5	6.49/<2.5[13]	--
06/23/99		169.30	158.23	11.07	--	--	--	--	--	--	--	--
09/16/99		169.30	158.41	10.89	--	--	--	--	--	--	--	--
12/16/99		169.30	158.46	10.84	--	--	--	--	--	--	--	--
03/02/00		169.30	158.83	10.47	2,300[1]	155	10.4	<0.5	<0.5	<0.5	10.3	--
06/30/00		169.30	159.04	10.26	--	--	--	--	--	--	--	--
09/30/00	NP	169.30	158.30	11.00	--	--	--	--	--	--	--	--
12/19/00		169.30	158.44	10.86	--	--	--	--	--	--	--	--
03/13/01	NP	169.30	158.45	10.85	--[14]	50.4	4.50	0.553	0.522	2.10	1.65	--
06/12/01		169.30	158.28	11.02	SAMPLED ANNUALLY		--	--	--	--	--	--
09/18/01		169.30	158.23	11.07	SAMPLED ANNUALLY		--	--	--	--	--	--
12/17/01		**169.30**	**158.59**	**10.71**	**SAMPLED ANNUALLY**		**--**	**--**	**--**	**--**	**--**	**--**
03/21/02		**169.30**	**158.54**	**10.76**	**--[14]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**	**--**
MW-2												
10/08/91		169.15	157.20	11.95	--	110	5.1	1.1	0.8	26	--	--
11/19/91		169.15	157.40	11.75	--	120	11	1.1	<0.5	17	--	--
12/04/91		169.15	157.35	11.80	130	440	30	2.5	<0.5	52	--	--
06/05/92		169.15	157.35	11.80	130	80	13	<0.5	<0.5	1.0	--	--
10/27/92		169.15	157.15	12.00	110	54	13	<0.5	<0.5	<0.5	--	--
12/30/92		169.15	--	--	92	180	30	<0.5	<0.5	1.0	--	--
01/27/93		169.15	158.24	10.91	--	--	--	--	--	--	--	--
03/05/93		169.15	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/17/93		169.15	158.26	10.89	--	--	--	--	--	--	--	--
06/18/93		169.15	157.41	11.74	<50	<50	1.4	<0.5	<0.5	<1.5	--	--
09/28/93		169.15	157.97	11.18	<50	<50	0.6	<0.5	<0.5	<1.5	--	--
12/30/93		169.15	158.34	21.00	<50	<50	0.9	<0.5	<0.5	<0.5	--	--
04/07/94		169.15	158.40	10.75	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/31/94		169.15	158.35	10.80	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/23/94		169.15	157.50	11.65	120	<50	0.7	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-2 (cont)												
11/30/94		169.15	158.41	10.74	570[4]	55	2.9	<0.5	1.4	0.94	--	--
03/30/95		169.15	158.25	10.90	430[1]	91	4.5	<0.5	3.8	<0.5	--	--
06/06/95		169.15	157.73	11.42	410[1]	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/25/95		169.15	157.52	11.63	220[1]	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/28/95		169.15	157.98	11.17	120[1]	<2,000	<20	<20	<20	<20	5,000	--
03/05/96		169.15	159.09	10.06	860[1]	<2,000	<20	<20	<20	<20	10,000	--
09/13/96		169.15	157.37	11.78	1,300	1,100	25	<10	<10	<10	20,000	--
12/19/96		169.15	158.30	10.85	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
03/20/97		169.15	157.75	11.40	190[1]	2400	<10	<10	46	<10	6,200	--
06/27/97		169.15	157.35	11.80	--	--	--	--	--	--	--	--
09/19/97		169.15	157.43	11.72	60[1]	<50	<0.5	<0.5	<0.5	<0.5	280	--
12/08/97		169.15	158.27	10.88	--	--	--	--	--	--	--	--
03/31/98		169.15	158.46	10.69	220[1]	110	30	0.74	0.74	0.59	1,000	--
06/19/98		169.15	159.31	9.84	--	--	--	--	--	--	--	--
08/31/98		169.15	157.43	11.72	380[1]	<100	3.4	<1.0	<1.0	<1.0	980	--
12/17/98		169.15	157.60	11.55	--	--	--	--	--	--	480	--
03/19/99		169.15	158.63	10.52	107[4]	<250	12.7	<2.5	<2.5	<2.5	1,040/819[13]	--
06/23/99		169.15	159.61	9.54	--	--	--	--	--	--	--	--
09/16/99		169.15	157.54	11.61	84.9	<100	<1.0	<1.0	<1.0	<1.0	216	--
12/16/99		169.15	157.86	11.29	--	--	--	--	--	--	--	--
03/02/00		169.15	158.70	10.45	<50	84.8	21.5	<0.5	<0.5	0.636	413	--
06/30/00		169.15	159.08	10.07	--	--	--	--	--	--	--	--
09/30/00	NP	169.15	157.54	11.61	100[11]	<50	<0.50	0.57	<0.50	1.0	2,800	--
12/19/00		169.15	158.04	11.11	--	--	--	--	--	--	--	--
03/13/01	NP	169.15	158.22	10.93	--[14]	179	11.6	2.01	0.856	3.66	1,290	--
06/12/01		169.15	157.52	11.63	--	--	--	--	--	--	--	--
09/18/01	NP	169.15	157.37	11.78	100	<50	<0.50	<0.50	<0.50	<1.5	670	--
12/17/01		**169.15**	**158.29**	**10.86**	**SAMPLED SEMI-ANNUALLY**			**--**	**--**	**--**	**--**	**--**
03/21/02		**169.15**	**158.16**	**10.99**	**--[14]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**350**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-3												
10/08/91		169.11	160.84	8.27	--	81	1.9	0.7	0.8	2.4	--	--
11/04/91		169.11	158.26	10.85	--	60	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91		169.11	158.06	11.05	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/05/92		169.11	157.96	11.15	170	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/27/92		169.11	157.51	11.60	120	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/30/92		169.11	--	--	170	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/93		169.11	160.00	9.11	--	--	--	--	--	--	--	--
03/05/93		169.11	--	--	--	--	--	--	--	--	--	--
03/17/93		169.11	159.16	9.95	--	--	--	--	--	--	--	--
06/18/93		169.11	158.22	10.89	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/28/93		169.11	159.49	9.62	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/30/93		169.11	159.80	9.31	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94		169.11	160.30	8.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/31/94		169.11	160.21	8.90	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/23/94		169.11	158.48	10.63	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94		169.11	160.19	8.92	--	--	--	--	--	--	--	--
03/30/95		169.11	160.01	9.10	290[1]	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/06/95		169.11	158.79	10.32	150[1]	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/25/95		169.11	158.11	11.00	260[1]	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/28/95		169.11	158.96	10.15	200[1]	<250	<2.5	<2.5	<2.5	<2.5	1,400	--
12/17/98		169.11	158.86	10.25	130[1]	<250	<2.5	<2.5	<2.5	<2.5	62,000	--
03/19/99		169.11	159.37	9.74	139[1]	<1,000	<10	<10	<10	<10	5,650/5,850[13]	--
06/23/99		169.11	158.40	10.71	61.6[1]	<2,000	<20	<20	<20	<20	6,700	--
09/16/99		169.11	157.44	11.67	122	<1,000	<10	<10	<10	<10	1,910	--
12/16/99		169.11	158.79	10.32	--	--	--	--	--	--	5,850	--
12/20/00		169.11	158.91	10.20	96.8[1]	65.2	<0.5	<0.5	<0.5	<0.5	1,790	--
03/02/00		169.11	160.26	8.85	<50	<50	<0.5	<0.5	<0.5	<0.5	5,600	--
06/30/00		169.11	158.81	10.30	<50	360[5]	<0.50	<0.50	<0.50	<0.50	1,300	--
09/30/00	NP	169.11	158.07	11.04	--	150[9]	75	<1.3	<1.3	<1.3	8,200	--
12/19/00	NP	169.11	159.06	10.05	--[14]	<1,000	<10	<10	<10	<10	4,600	--
03/13/01	NP	169.11	159.76	9.35	--[14]	284	0.601	1.00	<0.500	1.27	3,670	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-3 (cont)												
06/12/01	NP	169.11	158.08	11.03	<50	140[9]	67	<0.50	<0.50	<0.50	2,600	--
09/18/01	NP	169.11	157.96	11.15	100	240	<0.50	<0.50	<0.50	<1.5	3,200	--
12/17/01		**169.11**	**159.22**	**9.89**	**270**	**55**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**930**	**--**
03/21/02		**169.11**	**159.38**	**9.73**	**290**	**190**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**2,600**	**--**
MW-4												
10/27/92		169.18	157.79	11.39	<50	<50	<0.5	0.6	0.5	4.3	--	--
12/30/92		169.18	159.05	10.13	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/93		169.18	160.09	9.09	--	--	--	--	--	--	--	--
03/05/93		169.18	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/17/93		169.18	159.28	9.90	--	--	--	--	--	--	--	--
06/18/93		169.18	158.50	10.68	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/28/93		169.18	159.82	9.36	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/30/93		169.18	159.91	9.27	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94		169.18	160.37	8.81	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/31/94		169.18	160.27	8.91	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/23/94		169.18	158.79	10.39	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94		169.18	160.08	9.10	58[2]	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/30/95		169.18	160.66	8.52	61[1]	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/06/95		169.18	158.70	10.48	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/25/95		169.18	158.38	10.80	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/28/95		169.18	159.23	9.95	<50	<50	<0.5	<0.5	<0.5	<0.5	9.9	--
NOT MONITORED/SAMPLED												
MW-5												
10/27/92		167.41	157.46	9.95	<50	74	<0.5	<0.5	0.6	7.1	--	--
12/30/92		167.41	158.21	9.20	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/93		167.41	157.80	9.61	--	--	--	--	--	--	--	--
03/05/93		167.41	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-5 (cont)											
03/17/93	167.41	157.90	9.51	--	--	--	--	--	--	--	--
06/18/93	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/28/93	167.41	157.55	9.86	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/30/93	167.41	157.08	10.33	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94	167.41	157.69	9.72	<10	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/31/94	167.41	157.68	9.73	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/23/94	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	167.41	157.73	9.68	79[2]	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/30/95	167.41	157.79	9.62	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/06/95	167.41	157.55	9.86	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/25/95	167.41	157.56	9.85	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/28/95	167.41	157.67	9.74	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
NOT MONITORED/SAMPLED											
MW-6											
10/27/92	166.46	153.92	12.54	<50	600	22	22	24	130	--	--
12/30/92	166.46	156.26	10.20	470	1,700	170	16	46	160	--	--
01/27/93	166.46	156.44	10.02	--	--	--	--	--	--	--	--
03/05/93	166.46	--	--	150	480	76	0.9	3.1	7.1	--	--
03/17/93	166.46	155.79	10.67	--	--	--	--	--	--	--	--
06/18/93	166.46	154.63	11.83	51	240	37	3.4	2.9	18	--	--
09/28/93	166.46	154.90	11.56	120	150	11	1.2	1.3	4.3	--	--
12/30/93	166.46	154.81	11.65	290	680	77	5.1	5.5	13	--	--
04/07/94	166.46	155.34	11.12	<10	190	24	2.9	1.9	8.0	--	--
05/31/94	166.46	--	--	--	--	--	--	--	--	--	--
09/23/94	166.46	155.05	11.41	--	--	--	--	--	--	--	--
11/30/94	166.46	156.58	9.88	150[2]	320	49	0.58	1.4	1.2	--	--
NOT MONITORED/SAMPLED											

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE		TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
MW-7												
09/25/95		168.80	157.20	11.60	1,400[1]	220	0.79	<0.5	0.67	<0.5	--	--
12/28/95		168.80	158.14	10.66	590[1]	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/05/96		168.80	159.74	9.06	320[1]	1,400	<10	<10	47	<10	5,300	--
06/27/96		168.80	157.27	11.53	630[1]	<2,500	<25	<25	<25	<25	14,000	--
09/13/96		168.80	156.88	11.92	1,400	1,100	26	<10	24	<10	20,000	--
12/19/96		168.80	158.29	10.51	1,100[3]	<5,000	<50	<50	<50	<50	12,000	--
03/20/97		168.80	157.84	10.96	1,600[3]	<1,000	<10	<10	<10	<10	2,100/2,000[13]	--
06/27/97		168.80	157.02	11.78	1,600[1]	2,000	<20	<20	<20	<20	11,000	--
09/19/97		168.80	156.87	11.93	1,900[1]	<1,000	35	<10	<10	<10	13,000	--
12/05/97		168.80	158.40	10.40	1,100[1]	2,100	47	2.7	28	<2.5	15,000	--
03/31/98		168.80	158.89	9.91	780[1]	410	4.0	0.61	2.2	<0.5	<2.5	--
06/19/98		168.80	159.09	9.71	480[1]	1,100	16	<10	17	<10	12,000	--
08/31/98		168.80	157.11	11.69	580[1]	<500	350	22	<5.0	<5.0	47,000	--
12/17/98		168.80	157.70	11.10	970	1,800	<10	<10	24	<10	13,000/14,000[1]	--
03/19/99		168.80	158.51	10.29	615[1]	1,280	<5.0	5.0	16.3	<5.0	2,240/2,910[13]	--
06/23/99		168.80	157.25	11.55	1,240[1]	<5,000	<50	<50	<50	<50	18,000	--
09/16/99		168.80	157.31	11.49	2,230	<5,000	<50	<50	<50	<50	13,700	--
12/16/99		168.80	158.27	10.53	973[1]	1,330	<1.0	6.44	14	5.17	10,800	--
03/02/00		168.80	159.25	9.55	880[1]	1,980	7.22	<5.0	6.11	<5.0	4,230	--
06/30/00		168.80	157.68	11.12	620[7]	2,500[6]	6.0	8.5	16	72	6,900	--
09/30/00	NP	168.80	157.23	11.57	1,600[7]	1,700[10]	750	<5.0	<5.0	<5.0	7,300	--
12/19/00		168.80	158.26	10.54	1,100[12]	1,800[10]	<10	<10	<10	<10	4,900	--
03/13/01		168.80	158.74	10.06	1,500[12]	1,470	9.34	5.09	6.08	2.69	2,920	--
06/12/01		168.80	157.45	11.35	910[15]	920[10]	260	4.2	9.7	2.8	4,500	--
09/18/01		168.80	156.87	11.93	3,000	2,000	<0.50	<0.50	<0.50	<1.5	5,300	--
12/17/01		**168.80**	**157.99**	**10.81**	**7,000**	**1,700**	**<5.0**	**<0.50**	**7.1**	**<1.5**	**4,100**	**--**
03/21/02		**168.80**	**158.56**	**10.24**	**13,000**	**3,200**	**<5.0**	**<0.50**	**24**	**<1.5**	**980**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
TRIP BLANK											
10/08/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/04/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/04/91	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/05/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/30/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/27/93	--	--	--	<50	--	--	--	--	--	--	--
03/05/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/17/93	--	--	--	--	--	--	--	--	--	--	--
06/18/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
09/28/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/30/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/31/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/23/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/30/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/06/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/25/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/28/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/05/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/27/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/13/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/19/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/27/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/19/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/05/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/19/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/19/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991

2920 Castro Valley Boulevard

Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	TOG (ppb)
TRIP BLANK (cont)											
09/16/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/16/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/20/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/02/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/30/00[8]	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
12/19/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
03/13/01	--	--	--	--	<50.0	<0.500	0.534	<0.500	1.25	<0.500	--
06/12/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
09/18/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
QA											
12/17/01	**--**	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**	**--**
03/21/02	**--**	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 30, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
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
-- = Not Measured/Not Analyzed
NP = No Purge
QA = Quality Assurance

1 Chromatogram pattern indicates an unidentified hydrocarbon.
2 Chromatogram pattern indicates a non-diesel mix.
3 Chromatogram pattern indicates an unidentified hydrocarbon and weathered diesel.
4 Chromatogram pattern indicates a non-diesel mix + discrete peaks.
5 Laboratory report indicates unidentified hydrocarbons C6-C12.
6 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.
7 Laboratory report indicates unidentified hydrocarbons C9-C24.
8 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
9 Laboratory report indicates discrete peaks.
10 Laboratory report indicates gasoline C6-C12.
11 Laboratory report indicates unidentified hydrocarbons >C16.
12 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
13 Confirmation run.
14 Insufficient water to obtain sample for TPH-D.
15 Laboratory report indicates unidentified hydrocarbons C9-C17.

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.

CHEVRON SERVICE STATION #9-6991
Castro Valley, CA.

FOURTH QUARTER MONITORING & SAMPLING EVENT
Of December 17, 2001

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 12-17-01
City: Castro Valley, CA Sampler: T-C

Well ID MW-1 Well Condition: O.C

Well Diameter (3/4) 1 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 16.50 ft.

Depth to Water 10.71 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: _____
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 µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y		LANCASTER	TPH(G)/btex/mtbe

COMMENTS: MONITORED ONLY

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 12-17-01
City: Castro Valley, CA Sampler: TC

Well ID MW-2 Well Condition: O.K
Well Diameter (3/4) / 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 18.54 ft.
Depth to Water 10.80 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 °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y		LANCASTER	TPH(G)/btex/mtbe

COMMENTS: Monitored only

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 12-17-01
City: Castro Valley, CA Sampler: T.C

Well ID MW-3 Well Condition: O/C
Well Diameter (3/4) 1 2 in. Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)
Total Depth 19.01 ft.
Depth to Water 9.89 ft.

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

9.12 X VF .06 = .5% X 3 (case volume) = Estimated Purge Volume: 1.5 (gal.)

Purge Equipment: Disposable Bailer / Bailer / Stack / Suction / Grundfos / (Other:) 1/2" Bailer

Sampling Equipment: Disposable Bailer / Bailer / Pressure Bailer / Grab Sample / (Other:) 1/2" Bailer

Starting Time: 1125 Weather Conditions: Sunny
Sampling Time: 1215 Water Color: Cloudy Odor: no
Purging Flow Rate: — gpm. Sediment Description:
Did well de-water? no If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1132	.50	7.02	1162	68.9			
1138	1.0	7.01	1138	68.6			
1144	1.5	6.96	1142	68.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 VOA's HCl	Y	HCl	LANCASTER	TPH(G)/btex/mtbe
MW-3	2 Amber	Y	HCl	" "	TPH-D

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 12-17-01
City: Castro Valley, CA Sampler: TC

Well ID MW-7 Well Condition: O.K
Well Diameter 3/4 1 (2) in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 19.77 ft.
Depth to Water 10.81 ft.

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

8.96 X VF .17 = 1.5 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

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

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

Starting Time: 1230 Weather Conditions: cloudy
Sampling Time: 1240 Water Color: cloudy Odor: yes
Purging Flow Rate: — gpm. Sediment Description:
Did well de-water? no If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1232	1.5	7.36	1238	67.4			
1234	3.0	7.16	1210	67.2			
1236	4.5	7.20	1196	66.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x 40 ml VOA	Y	HCl	LANCASTER	TPH(G)/btex/mtbe
MW-7	2 x 1 liter amber	Y	HCl	" "	TPH-D

COMMENTS:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 10905 For Lancaster Laboratories use only Sample #: 3749152-59 SCR#:

201201-010

Facility #: 9-6991 Job #385296 Global ID #T0600100324
Site Address: 3920 CASTRO VALLEY BLVD, CASTRO VALLEY, CA
Chevron PM: Tom Bauhs Lead Consultant: Delta/G-R
Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568
Consultant Prj. Mgr: Deanna L. Harding (Deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Tony CAMARDA
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air ☐	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + MTBE 8260 ☐ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	___ Oxygenates	Lead 7420 ☐ 7421 ☐
QA	12/17/01	—				X		2	X	X				
MW-3	↓	1215	X			X		5	X	X	X			
MW-7	↓	1240	X			X		5	X	X	X			

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds
8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)
QC Summary Type I — Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
Tony Camarda			Geoff Kelly	12/20/01	11:11
Geoff Kelly	12/20/01	13:15	Andres Amaya	12-20-01	1315
Andres Amaya	12-20-01	14:00	Airborne	12-20-01	
Relinquished by Commercial Carrier: UPS FedEx (Other) Airborne			Received by:	12/21/01	0930
Temperature Upon Receipt 2.0 2.5 °C (D) (T)			Custody Seals Intact? (Yes) No		

3460 Rev. 7/30/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Analysis Report

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 791238. Samples arrived at the laboratory on Friday, December 21, 2001. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-T-011217	NA	Water	3749152
MW-3-W-011217	Grab	Water	3749153
MW-7-W-011217	Grab	Water	3749154

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Delta C/O Gettler-Ryan Attn: Deanna L. Harding

Questions? Contact your Client Services Representative
Teresa M. Lis at (717) 656-2300.

Respectfully Submitted,

Christine M. Dulaney
Sr. Chemist

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3749152

Collected:12/17/2001 00:00

Account Number: 10905

Submitted: 12/21/2001 09:30
Reported: 01/09/2002 at 09:49
Discard: 02/09/2002
QA-T-011217 NA Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/26/2001 15:35	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/26/2001 15:35	Melissa Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/26/2001 15:35	Melissa Mann	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the reporting limit

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3749153

Collected:12/17/2001 12:15 by TC

Account Number: 10905

Submitted: 12/21/2001 09:30
Reported: 01/09/2002 at 09:49
Discard: 02/09/2002
MW-3-W-011217 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-3

CVB03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	270.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	55.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	930.	3.0	ug/l	10
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3749154

Collected:12/17/2001 12:40 by TC

Account Number: 10905

Submitted: 12/21/2001 09:30
Reported: 01/09/2002 at 09:49
Discard: 02/09/2002
MW-7-W-011217 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-7

CVB07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	7,000.	200.	ug/l	10
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	1,700.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D. #	5.0	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	7.1	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	4,100.	7.5	ug/l	25
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
	Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					

State of California Lab Certification No. 2116

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3749153

Collected:12/17/2001 12:15 by TC

Account Number: 10905

Submitted: 12/21/2001 09:30
Reported: 01/09/2002 at 09:49
Discard: 02/09/2002
MW-3-W-011217 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-3

CVB03

05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	12/27/2001 13:03	Devin M. Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/27/2001 00:18	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/27/2001 00:18	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/27/2001 13:22	Melissa Mann	10
01146	GC VOA Water Prep	SW-846 5030B	1	12/27/2001 00:18	Melissa Mann	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	12/24/2001 01:05	JoElla L. Rice	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3749154

Collected:12/17/2001 12:40 by TC

Account Number: 10905

Submitted: 12/21/2001 09:30
Reported: 01/09/2002 at 09:49
Discard: 02/09/2002
MW-7-W-011217 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-7

CVB07

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	12/29/2001 06:42	Devin M. Lahr	10
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	12/27/2001 16:16	Melissa Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/27/2001 14:31	Melissa Mann	25
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/27/2001 16:16	Melissa Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/27/2001 14:31	Melissa Mann	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	12/24/2001 01:05	JoElla L. Rice	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories
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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 791238
Reported: 01/09/02 at 09:49 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 013560005A	Sample number(s): 3749153-3749154							
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	80	73	54-120	10	20
Batch number: 01360A55	Sample number(s): 3749152-3749154							
Benzene	N.D.	0.5	ug/l	89	90	80-118	1	30
Toluene	N.D.	0.5	ug/l	97	98	82-119	1	30
Ethylbenzene	N.D.	0.5	ug/l	99	99	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	99	99	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	97	95	79-127	2	30
TPH-GRO - Waters				91	93	76-119	2	20

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 01360A55	Sample number(s): 3749152-3749154								
Benzene	102		66-140						
Toluene	109		72-138						
Ethylbenzene	112		71-138						
Total Xylenes	111		69-140						
Methyl tert-Butyl Ether	99		60-145						
TPH-GRO - Waters	95		74-132						

Surrogate Quality Control

Analysis Name: TPH - DRO CA LUFT (Waters)
Batch number: 013560005A

	Orthoterphenyl
3749153	90
3749154	150
Blank	95
LCS	97
LCSD	92
Limits:	59-157

Analysis Name: TPH-GRO - Waters
Batch number: 01360A55

	Trifluorotoluene-F	Trifluorotoluene-P
3749152	93	85
3749153	97	86
3749154	105	90

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 791238
Reported: 01/09/02 at 09:49 AM

Surrogate Quality Control

Blank	95	86
LCS	102	85
LCSD	103	85
MS	127	88
Limits:	65-137	72-134

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

MEMBER ACIL
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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

CHEVRON SERVICE STATION #9-6991
Castro Valley, CA.

FIRST QUARTER MONITORING & SAMPLING EVENT
Of March 21, 2001

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 3/21/02
City: Castro Valley, CA Sampler: [illegible]

Well ID: MW-1 Well Condition: OK
Well Diameter: (3/4) 1 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth: 17.60 ft.
Depth to Water: 10.76 ft.

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

6.84 x VF 0.023 = 0.16 X 3 (case volume) = Estimated Purge Volume: .5 (gal.)

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

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

Starting Time: 1315 Weather Conditions: Sunny
Sampling Time: 1335 Water Color: Clear Odor: no
Purging Flow Rate: gpm. Sediment Description:
Did well de-water? Yes If yes; Time: 1335 Volume: .15 (gal.)

Time	Volume (gal.)	pH	Conductivity (mmhos/cm)	Temperature (C)	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1335	.15	6.84	2.90	24.5			
	.25	Insufficient water		to continue Bailing			
	.5						

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 VOA	Y	HCL	LANCASTER	TPH(G)/btex/mtbe/TPHD
	2 Amber	Y	None		

COMMENTS: Well de-watered after 1 casing volume, Insufficient water to collect samples for TPH-D.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 3/21/02
City: Castro Valley, CA Sampler: G Rogers

Well ID MW-2 Well Condition: OK
Well Diameter (3/4) 1 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 17.25 ft.
Depth to Water 10.99 ft.

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

6.26 X VF .023 = 0.14 X 3 (case volume) = Estimated Purge Volume: .5 (gal.)

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

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

Starting Time: 1430 Weather Conditions: Sunny
Sampling Time: 1440 Water Color: Clear Odor: no
Purging Flow Rate: n/a gpm. Sediment Description:
Did well de-water? yes If yes; Time: 1440 Volume: .15 (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1440	0.15	6.91	858	24.8			
		Insufficient water to continue bailing					

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 VOA	Y	HCL	LANCASTER	TPH(G)/btex/mtbe
	~~2 Amber~~	~~Y~~	~~none~~		~~TPH-D~~

COMMENTS: Well de watered after 1 casing Volume. Insufficient Water to collect samples for TPH-D

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 3/21/02
City: Castro Valley, CA Sampler: G [illegible]

Well ID: MW-3 Well Condition: OK

Well Diameter: (3/4) / 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth: 16.51 ft.

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

Depth to Water: 9.73 ft.

6.78 x VF .023 = .16 x 3 (case volume) = Estimated Purge Volume: .5 (gal.)

Purge Equipment: **Disposable Bailer** (circled), Bailer, Stack, Suction, Grundfos, Other: ______

Sampling Equipment: **Disposable Bailer** (circled), Bailer, Pressure Bailer, Grab Sample, Other: ______

Starting Time: 1515
Sampling Time: 1620
Purging Flow Rate: ______ gpm.
Did well de-water? no

Weather Conditions: Sunny
Water Color: Clear Odor: no
Sediment Description: ______
If yes; Time: ______ Volume: ______ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1520	0.15	6.89	480	21.7			
	0.30	6.93	560	20.9			
1610	0.5	6.90	577	20.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	2 VOA	Y	HCL	LANCASTER	TPH(G)/btex/mtbe
	2 Amber	Y	None		TPHD

COMMENTS: ______

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 9-6991 Job#: 385296
Address: 2920 Castro Valley Blvd. Date: 3/21/01
City: Castro Valley, CA Sampler: G. Lopez

Well ID MW-7 Well Condition: OK
Well Diameter 3/4 1(2) in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 19.84 ft.
Depth to Water 10.24 ft.

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

9.60 X VF .17 = 1.63 X 3 (case volume) = Estimated Purge Volume: 4.9 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 1535 Weather Conditions: Sunny
Sampling Time: 1557 Water Color: CLEAR Odor: Yes
Purging Flow Rate: N/A gpm. Sediment Description: _____
Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F C°	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1538	1 3/4	6.98	1085	20.9			
1542	3.5	7.03	1060	20.3			
1546	5	7.02	1071	20.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 VOA'S	Y	HCL	LANCASTER	TPH(G)/btex/mtbe
	2 AMBERS	Y	NO	"	TPH-D

COMMENTS: _____

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

220302-004

For Lancaster Laboratories use only
Acct. #: 10905 Sample #: 3193417-21 SCR#:

Facility #: 9-6991 Job #385296 Global ID #T0600100324
Site Address: 2920 CASTRO VALLEY BLVD, CASTRO VALLEY, CA
Chevron PM: Tom Bauhs Lead Consultant: Delta/G-R
Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568
Consultant Prj. Mgr.: Deanna L. Harding (Deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Greg Cosgrove
Service Order #: ☐ Non SAR:

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air ☐	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + MTBE 8260 ☐ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates ____	Lead 7420 ☐ 7421 ☐
									H	H				
QA	3/21/02	—				X		2	X	X				
MW-1		1335	X			X		3	X	X				
MW-2		1440	X			X		3	X	X				
MW-3		1620	X			X		5	X	X	X			
MW-7		1557	X			X		5	X	X	X			

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT | 72 hour | 48 hour | 24 hour | 4 day | 5 day

Data Package Options (please circle if required)
QC Summary | Type I — Full
Type VI (Raw Data) | ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	3/21/02		Received by:	3/22/02	1143
Relinquished by:	3/22/02	1310	Received by:	3-22-02	1310
Relinquished by:	3-22-02	1500	Received by: Airborne		
Relinquished by Commercial Carrier: UPS FedEx Other Airborne			Received by:	03/23/02	0920
Temperature Upon Receipt 15.1.0 C°			Custody Seals Intact? Yes No		

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ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 801376. Samples arrived at the laboratory on Saturday, March 23, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-T-020321	NA	Water	3793417
MW-1-W-020321	Grab	Water	3793418
MW-2-W-020321	Grab	Water	3793419
MW-3-W-020321	Grab	Water	3793420
MW-7-W-020321	Grab	Water	3793421

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Delta C/O Gettler-Ryan Attn: Deanna L. Harding

Lancaster Laboratories
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Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,

Steven A. Stiles
Sr. Chemist

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

MEMBER ACIL

CASE NARRATIVE

Prepared For:

Thomas Bauhs
Chevron Products Company
6001 Bollinger Canyon Road
Building L
P.O. Box 6004
San Ramon, CA 94583-0904

Prepared By:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 801376. Samples arrived at the laboratory on Saturday, March 23, 2002.

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

COMMENTS

Accurate surrogate recoveries could not be determined due to the dilution required for the TPH-DRO analysis of sample MW-7 from Facility 96991.

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Lancaster Laboratories Sample No. WW 3793417

Collected:03/21/2002 00:00

Account Number: 10905

Submitted: 03/23/2002 09:20
Reported: 04/05/2002 at 11:41
Discard: 05/06/2002
QA-T-020321 NA Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/25/2002 14:22	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/25/2002 14:22	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/25/2002 14:22	Melissa D Mann	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3793418

Collected:03/21/2002 13:35 by GR

Account Number: 10905

Submitted: 03/23/2002 09:20
Reported: 04/05/2002 at 11:41
Discard: 05/06/2002
MW-1-W-020321 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/25/2002 17:14	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/25/2002 17:14	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/25/2002 17:14	Melissa D Mann	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3793419

Collected:03/21/2002 14:40 by GR

Account Number: 10905

Submitted: 03/23/2002 09:20
Reported: 04/05/2002 at 11:41
Discard: 05/06/2002
MW-2-W-020321 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	350.	2.5	ug/l	1
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2002 01:15	Linda C Pape	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/26/2002 01:15	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2002 01:15	Linda C Pape	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3793420

Collected:03/21/2002 16:20 by GR

Account Number: 10905

Submitted: 03/23/2002 09:20
Reported: 04/05/2002 at 11:41
Discard: 05/06/2002
MW-3-W-020321 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-3

CVC-3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	290.	50.	ug/l	1
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	190.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	2,600.	6.0	ug/l	20
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					

State of California Lab Certification No. 2116

Laboratory Chronicle

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3793420

Collected:03/21/2002 16:20 by GR

Account Number: 10905

Submitted: 03/23/2002 09:20
Reported: 04/05/2002 at 11:41
Discard: 05/06/2002
MW-3-W-020321 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-3

CVC-3

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	03/28/2002 18:17	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2002 06:58	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/26/2002 04:41	Anastasia Papadoplos	20
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/26/2002 06:58	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2002 04:41	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	SW-846 3510C	1	03/26/2002 02:00	JoElla L Rice	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3793421

Collected:03/21/2002 15:57 by GR Account Number: 10905

Submitted: 03/23/2002 09:20 Chevron Products Company
Reported: 04/05/2002 at 11:41 6001 Bollinger Canyon Road
Discard: 05/06/2002 Building L PO Box 6004
MW-7-W-020321 Grab Water San Ramon CA 94583-0904

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-7

CVC-7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	13,000.	490.	ug/l	25
	According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
	Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.					
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	3,200.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
	Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D. #	5.0	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	24.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	980.	2.5	ug/l	5
	A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.					
	Due to the nature of the sample matrix, the surrogate standard recovery is					

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Lancaster Laboratories Sample No. WW 3793421

Collected:03/21/2002 15:57 by GR

Account Number: 10905

Submitted: 03/23/2002 09:20
Reported: 04/05/2002 at 11:41
Discard: 05/06/2002
MW-7-W-020321 Grab Water

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

Facility# 96991 Job# 385296 GRD
2920 Castro Valley-Castro T0600100324 MW-7

CVC-7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

above the range of specifications.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for the compound listed below. The presence or concentration of this compound cannot be determined due to the presence of this interferent.
benzene

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	03/30/2002 02:01	Devin M Lahr	25
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2002 09:16	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/26/2002 00:07	Melissa D Mann	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/26/2002 09:16	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2002 09:16	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	SW-846 3510C	1	03/26/2002 02:00	JoElla L Rice	1

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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Quality Control Summary

Client Name: Chevron Products Company
Group Number: 801376
Reported: 04/05/02 at 11:42 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 020840015A	Sample number(s): 3793420-3793421							
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	116	99	54-120	16	20
Batch number: 02084A53A	Sample number(s): 3793417-3793419,3793421							
Benzene	N.D.	0.5	ug/l	101	103	80-118	2	30
Toluene	N.D.	0.5	ug/l	102	104	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	102	104	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	101	102	82-120	1	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	100	106	79-127	5	30
TPH-GRO - Waters	N.D.	50.	ug/l	98	96	76-126	2	30
Batch number: 02084A53B	Sample number(s): 3793420-3793421							
Benzene	N.D.	0.5	ug/l	101	103	80-118	2	30
Toluene	N.D.	0.5	ug/l	102	104	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	102	104	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	101	102	82-120	1	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	100	106	79-127	5	30
TPH-GRO - Waters	N.D.	50.	ug/l	98	96	76-126	2	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02084A53A	Sample number(s): 3793417-3793419,3793421								
Benzene	105		77-131						
Toluene	110		80-128						
Ethylbenzene	111		76-132						
Total Xylenes	109		76-132						
Methyl tert-Butyl Ether	(2)		61-144						
Batch number: 02084A53B	Sample number(s): 3793420-3793421								
Benzene	105		77-131						
Toluene	110		80-128						
Ethylbenzene	111		76-132						
Total Xylenes	109		76-132						
Methyl tert-Butyl Ether	(2)		61-144						

Surrogate Quality Control

Analysis Name: TPH - DRO CA LUFT (Waters)
Batch number: 020840015A

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
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Quality Control Summary

Client Name: Chevron Products Company Group Number: 801376
Reported: 04/05/02 at 11:42 AM

Surrogate Quality Control

	Orthoterphenyl
3793420	92
3793421	179*
Blank	112
LCS	111
LCSD	98
Limits:	59-139

Analysis Name: TPH-GRO - Waters
Batch number: 02084A53A

	Trifluorotoluene-F	Trifluorotoluene-P
3793417	98	101
3793418	99	97
3793419	100	98
Blank	95	99
LCS	109	103
LCSD	106	104
MS		101
Limits:	67-135	71-130

Analysis Name: TPH-GRO - Waters
Batch number: 02084A53B

	Trifluorotoluene-F	Trifluorotoluene-P
3793420	98	101
3793421	146*	141*
Blank	98	98
LCS	109	103
LCSD	106	104
MS		101
Limits:	67-135	71-130

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.