#5544 / (454)

GETTLER-RYAN INC.

TRANSMITTAL

FEB 14 2002

January 24, 2002
G-R #386492

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 (Former Signal Oil)
Service Station #206145 (S-800)
800 Center Street
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	January 11, 2002	Groundwater Monitoring and Sampling Report Fourth Quarter - Event of November 28, 2001

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 ***February 11, 2002***, at which time the final report will be distributed to the following:

cc: **Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1153 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577**
Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
Mr. Terrell A. Sadler, 618 Brooklyn Avenue, Oakland, CA 94606
Mr. James Scott, BPH, Inc., 333 Hegenberger Road, Suite 209, Oakland, CA 94621
Mr. Hollis Rodgers, c/o Victor E. Brown, Esq., 580 Grand Avenue, Oakland, CA 94610

S Carle not with Delta any longer 2/19/02

Enclosures

trans/206145-TB

GETTLER-RYAN INC.

January 11, 2002
G-R Job #386492

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

RE: Fourth Quarter Event of November 28, 2001
Groundwater Monitoring & Sampling Report
Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, 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.

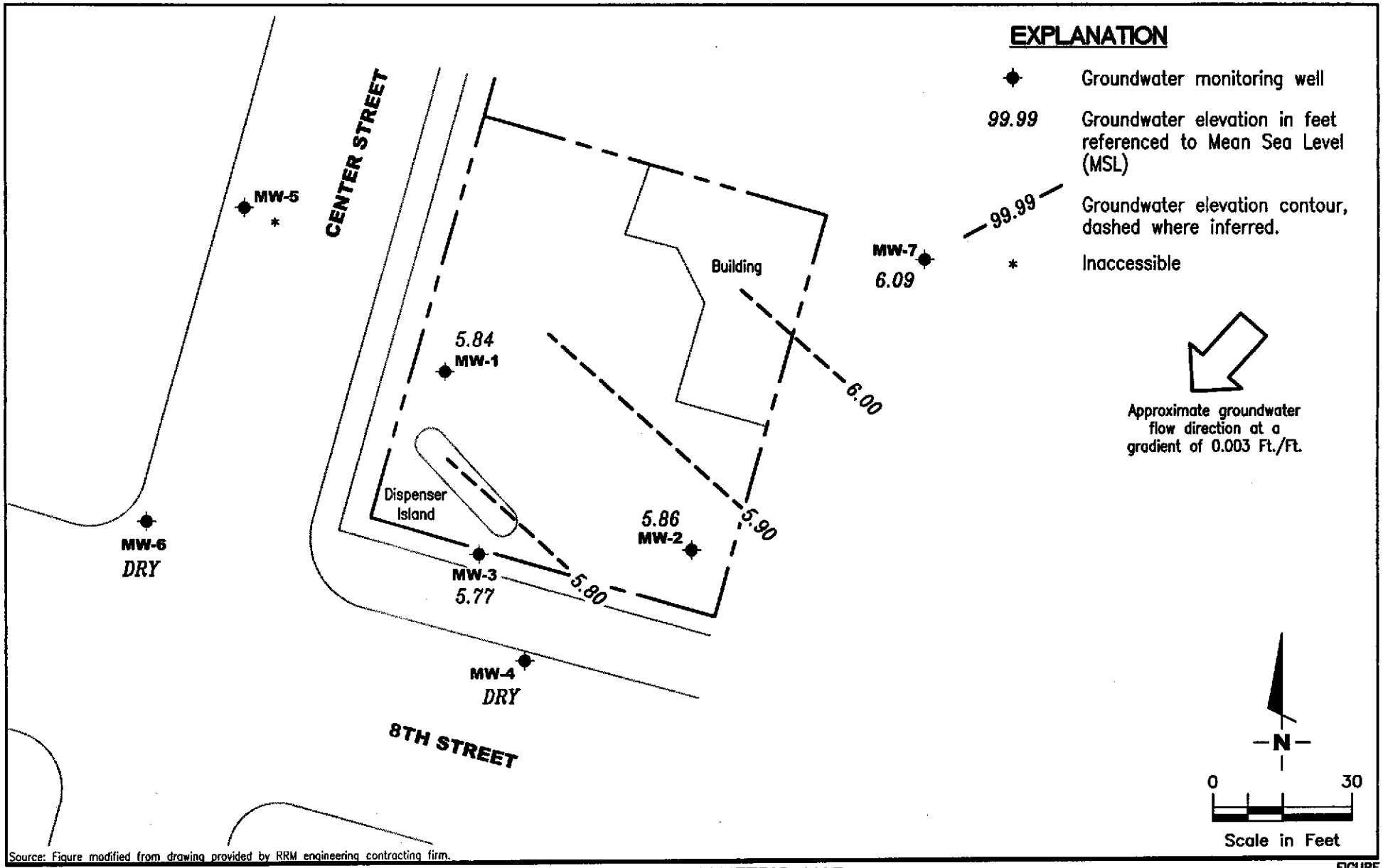
Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Field Measurements and Analytical Results
Table 3: Groundwater Analytical Results - Oxygenate Compounds
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 (Former Signal Oil) Service Station #206145
800 Center Street
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386492		November 28, 2001	

FILE NAME: P:\Enviro\Chevron\206145\Q01-20-6145.DWG | Layout Tab: Pot4

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-1										
10/27/95	15.69	10.54	5.15	170,000	19,000	34,000	4,800	26,000	--	--
02/20/97	15.64	8.96	6.68	18,000	870	3,500	470	2,100	<250	--
04/24/97	15.64	7.30	8.34	76,000	4,600	16,000	1,600	8,300	1,000	--
07/23/97	15.64	5.90	9.74	37,000	2,700	8,000	870	6,100	<250	--
10/29/97	15.64	INACCESSIBLE		--	--	--	--	--	--	--
01/28/98	15.64	9.30	6.34	10,000	380	2,000	300	1,500	<25	--
05/11/98	15.64	8.72	6.92	17,000	880	3,100	380	2,300	<250	--
07/16/98	15.64	7.23	8.41	29,000	2,700	6,800	890	3,900	<1,000	--
08/04/98[a]	15.64	6.90	8.74	--	--	--	--	--	--	$<1.0 \times 10^1$
09/03/98[a]	15.64	6.43	9.21	--	--	--	--	--	--	4.1×10^3
10/21/98[b]	15.64	5.59	10.05	--	--	--	--	--	--	4.7×10^2
11/04/98	15.64	5.64	10.00	25,000	1,900	5,900	810	4,300	<125	--
01/26/99	15.64	6.86	8.78	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.64	8.17	7.47	8,050	515	1,840	256	1,190	300/<20[c]	--
08/21/99	15.64	13.27	2.37	46,500	2,530	8,700	1,010	5,300	<1,250/<40[c]	--
10/28/99	15.64	5.46	10.18	31,600	1,580	6,100	794	4,400	1,270	--
01/31/00	15.64	7.49	8.15	7,270	366	1,280	171	935	<12.5	--
05/19/00	15.64	7.78	7.86	8,000[e]	870	1,200	430	1,200	<250	--
08/07/00	15.64	6.42	9.22	37,000[e]	2,400	8,500	1,100	5,500	1,500/<4.0[f]	--
12/01/00	15.64	5.25	10.39	25,500[g]	1,390	4,920	801	4,330	<500/<10[f]	--
02/09/01	15.64	6.10	9.54	8,900[e]	850	1,300	470	1,700	820/<2.0[f]	--
05/29/01	15.64	6.79	8.85	24,000[e]	1,800	5,600	740	3,700	<250/<2.0[f]	--
08/27/01[h]	15.64	5.83	9.81	27,000	1,400	4,400	710	3,400	--/<20[f]	--
11/28/01	**15.64**	**5.84**	**9.80**	**26,000**	**1,300**	**3,900**	**620**	**3,400**	**<100/<2[f]**	**--**
MW-2										
10/27/95	15.77	10.60	5.17	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.72	8.51	7.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	15.72	7.82	7.90	83[d]	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.72	5.92	9.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-2 (cont)										
10/29/97	15.72	5.13	10.59	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	15.72	9.21	6.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.72	8.82	6.90	SAMPLED ANNUALLY		--	--	--	--	--
07/16/98	15.72	7.37	8.35	--	--	--	--	--	--	--
08/04/98[a]	15.72	7.03	8.69	--	--	--	--	--	--	1.9×10^1
09/03/98[a]	15.72	6.44	9.28	--	--	--	--	--	--	3.0×10^2
10/21/98[h]	15.72	5.51	10.21	--	--	--	--	--	--	8.8×10^2
11/04/98	15.72	5.60	10.12	--	--	--	--	--	--	--
01/26/99	15.72	6.87	8.85	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.72	8.20	7.52	--	--	--	--	--	--	--
08/21/99	15.72	13.21	2.51	--	--	--	--	--	--	--
10/28/99	15.72	6.35	9.37	--	--	--	--	--	--	--
01/31/00	15.72	7.25	8.47	<50	<0.5	0.541	<0.5	<0.5	<2.5	--
05/19/00	15.72	7.65	8.07	--	--	--	--	--	--	--
08/07/00	15.72	6.35	9.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	15.72	5.60	10.12	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	15.72	6.05	9.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	15.72	6.73	8.99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/27/01[h]	15.72	5.68	10.04	<50	<0.50	<0.50	<0.50	<0.50	--/<5.0[f]	--
11/28/01	**15.72**	**5.86**	**9.86**	**NOT SAMPLED DUE TO INSUFFICIENT WATER**				**--**	**--**	**--**
MW-3										
10/27/95	15.46	10.37	5.09	33,000	11,000	1,700	2,300	4,200	--	--
02/20/97	15.42	8.37	7.05	260	56	<1.0	7.6	5.9	<5.0	--
04/24/97	15.42	7.29	8.13	1,400	310	28	76	75	74	--
07/23/97	15.42	5.84	9.58	37,000	10,000	1,500	2,700	4,200	2,500	--
10/29/97	15.42	5.09	10.33	53,000	12,000	1,200	3,000	3,100	2,500	--
01/28/98	15.42	8.94	6.48	210	43	1.5	1.7	3.9	10	--
05/11/98	15.42	8.49	6.93	59	11	<0.5	2.1	<0.5	<2.5	--
07/16/98	15.42	7.14	8.28	260	90	4.8	18	5.7	<10	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-3 (cont)										
08/04/98[a]	15.42	6.88	8.54	--	--	--	--	--	--	8.5×10^2
09/03/98[a]	15.42	6.34	9.08	--	--	--	--	--	--	2.4×10^3
10/21/98[b]	15.42	5.62	9.80	--	--	--	--	--	--	6.0×10^1
11/04/98	15.42	5.60	9.82	73,000	17,000	3,800	4,900	8,100	<250	--
01/26/99	15.42	6.70	8.72	32,400	10,200	1,850	2,650	3,140	715/<500[c]	--
05/06/99	15.42	7.97	7.45	3,160	668	89.6	180	123	<200/<10[c]	--
08/21/99	15.42	7.95	7.47	53,800	9,700	2,040	2,880	5,000	<1,250/<40[c]	--
10/28/99	15.42	5.37	10.05	71,300	14,000	3,420	4,320	8,360	<1,000	--
01/31/00	15.42	7.16	8.26	1,650	496	49.1	134	82.6	<12.5	--
05/19/00	15.42	7.60	7.82	110[e]	36	2.5	9.1	4.0	6.3	--
08/07/00	15.42	6.29	9.13	36,000[e]	9,000	3,000	2,700	2,800	2,500/<10[f]	--
12/01/00	15.42	2.45	12.97	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
02/09/01	15.42	5.98	9.44	32,000[e]	11,000	3,900	3,200	4,800	3,200/<2.0[f]	--
05/29/01	15.42	6.65	8.77	13,000	4,200	2,000	1,800	1,500	74/<2.0[f]	--
08/27/01[b]	15.42	5.70	9.72	40,000	7,600	2,800	2,500	2,700	--/<25[f]	--
11/28/01	**15.42**	**5.77**	**9.65**	**57,000**	**10,000**	**2,900**	**2,900**	**2,800**	**<250/<5.0[f]**	--
MW-4										
10/27/95	14.45	9.37	5.08	66	6.8	<0.5	<0.5	<0.5	--	--
02/20/97	14.40	8.12	6.28	54	<0.5	<0.5	<0.5	7.4	39	--
04/24/97	14.40	7.29	7.11	54	1.4	<0.5	0.65	3.0	100	--
07/23/97	14.40	5.80	8.60	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.40	5.74	8.66	--	--	--	--	--	--	--
11/13/97	14.40	4.97	9.43	<50	<0.5	0.79	<0.5	<0.5	<2.5	--
01/28/98	14.40	8.88	5.52	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.40	8.40	6.00	SAMPLED BIANNUALLY		--	--	--	--	--
07/16/98	14.40	7.08	7.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98[a]	14.40	6.28	8.12	--	--	--	--	--	--	1.8×10^4
09/03/98[a]	14.40	6.32	8.08	--	--	--	--	--	--	1.4×10^4
10/21/98[b]	14.40	5.64	8.76	--	--	--	--	--	--	8.6×10^4

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-4 (cont)										
11/04/98	14.40	5.61	8.79	--	--	--	--	--	--	--
01/26/99	14.40	6.71	7.69	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	14.40	8.15	6.25	--	--	--	--	--	--	--
08/21/99	14.40	8.13	6.27	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	14.40	4.14	10.26	--	--	--	--	--	--	--
01/31/00	14.40	7.07	7.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	14.40	7.52	6.88	--	--	--	--	--	--	--
08/07/00	14.40	6.23	8.17	<50	4.3	0.60	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	14.40	INACCESSIBLE		--	--	--	--	--	--	--
02/09/01	14.40	INACCESSIBLE		--	--	--	--	--	--	--
05/29/01	14.40	6.58	7.82	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
08/27/01	14.40	6.52	7.88	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
11/28/01	**14.40**	**DRY**	--	--	--	--	--	--	--	--
MW-5										
01/03/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
04/24/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
04/30/97	15.03	7.06	7.97	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
10/29/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--
01/28/98	15.03	8.83	6.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--
07/16/98	15.03	7.28	7.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--
11/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--
01/26/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--
05/06/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--
08/21/99	15.03	6.74	8.29	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	15.03	4.60	10.43	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-5 (cont)										
01/31/00	15.03	7.39	7.64	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	15.03	7.85	7.18	--	--	--	--	--	--	--
08/07/00	15.03	INACCESSIBLE		--	--	--	--	--	--	--
12/01/00	15.03	5.68	9.35	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<2.0[f]	--
02/09/01	15.03	6.22	8.81	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
05/29/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
08/27/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
11/28/01	**INACCESSIBLE - CAR PARKED OVER WELL**				**--**	**--**	**--**	**--**	**--**	**--**
MW-6										
01/03/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	14.73	8.11	6.62	800	310	23	11	28	<12	--
04/24/97	14.73	7.13	7.60	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	14.73	5.73	9.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.73	4.98	9.75	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	14.73	8.19	6.54	160	38	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.73	8.08	6.65	1,700	490	72	39	52	<25	--
07/16/98	14.73	7.04	7.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98[a]	14.73	6.89	7.84	--	--	--	--	--	--	8.6×10^3
09/03/98[a]	14.73	6.24	8.49	--	--	--	--	--	--	2.9×10^3
10/21/98[b]	14.73	5.46	9.27	--	--	--	--	--	--	1.8×10^3
11/04/98	14.73	5.52	9.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/26/99	14.73	6.49	8.24	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	14.73	7.91	6.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/21/99	14.73	7.93	6.80	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	14.73	5.27	9.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/31/00	14.73	7.16	7.57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	14.73	7.60	7.13	<50	11	<0.5	<0.5	<0.5	<2.5	--
08/07/00	14.73	6.22	8.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	14.73	DRY	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
MW-6 (cont)										
02/09/01	14.73	DRY	--	--	--	--	--	--	--	--
05/29/01	14.73	6.63	8.10	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
08/27/01[h]	14.73	9.83	4.90	150	<0.50	5.7	<0.50	<0.50	--/<5.0[f]	--
11/28/01	**14.73**	**DRY**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-7										
01/03/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	16.36	8.86	7.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	16.36	7.59	8.77	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	16.36	6.09	10.27	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	16.36	5.28	11.08	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	16.36	9.10	7.26	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	16.36	9.11	7.25	SAMPLED ANNUALLY		--	--	--	--	--
07/16/98	16.36	8.00	8.36	--	--	--	--	--	--	--
08/04/98[a]	16.36	7.32	9.04	--	--	--	--	--	--	1.5×10^3
09/03/98[a]	16.36	6.65	9.71	--	--	--	--	--	--	6.5×10^2
10/21/98[b]	16.36	5.96	10.40	--	--	--	--	--	--	4.8×10^3
11/04/98	16.36	5.89	10.47	--	--	--	--	--	--	--
01/26/99	16.36	8.25	8.11	<50	<0.5	<0.5	<0.5	0.5	<2.0	--
05/06/99	16.36	8.47	7.89	--	--	--	--	--	--	--
08/21/99	16.36	8.51	7.85	--	--	--	--	--	--	--
10/28/99	16.36	6.04	10.32	--	--	--	--	--	--	--
01/31/00	16.36	7.57	8.79	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	16.36	UNABLE TO LOCATE		--	--	--	--	--	--	--
08/07/00	16.36	6.67	9.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	16.36	5.84	10.52	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	16.36	6.30	10.06	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	16.36	UNABLE TO LOCATE		--	--	--	--	--	--	--
08/27/01[h]	16.36	6.02	10.34	<50	<0.50	<0.50	<0.50	<0.50	--/<5.0[f]	--
11/28/01	**16.36**	**6.09**	**10.27**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	CUB (cfu/ml)
TRIP BLANK										
02/20/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
11/04/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/26/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/31/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/07/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
12/01/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/27/01[h]	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--/<5.0[f]	--
QA										
11/28/01	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<2.5**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 19, 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-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

CUB = Contaminate utilizing bacteria
(cfu/ml) = Colony forming unit per milliliter
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
QA = Quality Assurance

[a] Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.
[b] Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.
[c] Confirmation run.
[d] Chromatogram pattern indicates an unidentified hydrocarbon.
[e] Laboratory report indicates gasoline C6-C12.
[f] MTBE by EPA Method 8260.
[g] Laboratory reports indicates weathered gasoline C6-C12.
[h] TPH-G and BTEX by EPA Method 8260.

Table 2

Field Measurements and Analytical Results

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	Pre-purge DO *(mg/L)*	Post-purge DO *(mg/L)*	Pre-purge ORP *(mV)*	Post-purge ORP *(mV)*	Total Alkalinity *(ppb)*	Ferrous Iron *(ppb)*	Nitrate as Nitrate *(ppb)*	Sulfate *(ppb)*
MW-1								
09/03/98	2.3	1.6	-90	-103	230,000	9,800	<1,000	6,100
MW-2								
09/03/98	2.8	2.5	-206	-163	390,000	7,400	<1,000	21,000
MW-3								
09/03/98	3.1	0.7	-124	-99	830,000	45,000	<1,000	10,000
MW-4								
09/03/98	2.6	1.1	-190	-206	--	--	--	--
MW-6								
09/03/98	2.6	3.2	-148	-167	94,000	62	28,000	47,000
MW-7								
09/03/98	2.7	3.2	-207	-229	170,000	120	7,800	57,000

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results were compiled from reports prepared by Blaine Tech Services, Inc.

DO = Dissolved Oxygen
(mg/L) = Milligram per liter
ORP = Oxidation Reduction Potential
(mV) = Millivolts
(ppb) = Parts per billion
-- = Not Analyzed

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID	DATE	METHANOL (ppm)	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	08/07/00	--	<1,000	410	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	12/01/00	--	<2,500	<250	<10	<10	<10	<10	<10	<10
	02/09/01	--	<500	340	<2.0	<2.0	<2.0	53	<2.0	<2.0
	05/29/01	--	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	<2.000	<200	230	<20	<20	<20	<20	<20	<20
	11/28/01	**--**	**<500**	**130**	**<2**	**<2**	**<2**	**<2**	**<2**	**<2**
MW-2	08/07/00		<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--
MW-3	08/07/00	--	<500	2,600	<10	<10	<10	<10	490	17
	02/09/01	--	<500	2,000	<2.0	<2.0	<2.0	35	<2.0	<2.0
	05/29/01	--	<500	1,7001	<2.0	<2.0	<2.0	38	9801	7.4
	08/27/01	<5.000	<250	1,300	<25	<25	<25	<25	380	<25
	11/28/01	**--**	**<500**	**1,500**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
MW-4	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	18	<2.0
	08/27/01	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
	11/28/01	**DRY**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-5	12/01/00	--	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	02/09/01	--	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--
	11/28/01	**INACCESSIBLE - CAR PARKED OVER WELL**				**--**	**--**	**--**	**--**	**--**
MW-6	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron (Former Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID	DATE	METHANOL *(ppm)*	ETHANOL *(ppb)*	TBA *(ppb)*	MTBE *(ppb)*	DIPE *(ppb)*	ETBE *(ppb)*	TAME *(ppb)*	1,2-DCA *(ppb)*	EDB *(ppb)*
MW-7	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron (Former Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene Dibromide/1,2-Dibromoethane
(ppm) = Parts per million
(ppb) = Parts per billion
-- = Not Analyzed

[1] Laboratory report indicates this sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

ANALYTICAL METHODS:

EPA Method 8260 for Methanol
EPA Method 8260 for Oxygenate Compounds

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/ CHEVRON
Facility # 206145 Job#: 386492
Address: 800 Center St. Date: 11-28-01
City: Oakland, CA Sampler: FB

Well ID: ~~MW-1~~ MW-2 Well Condition: OK

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

Total Depth: 13.71 ft.

Depth to Water: 9.80 ft.

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

3.91 X VF .17 = .664 X 3 (case volume) = Estimated Purge Volume: 2 (gal.)

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

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

Starting Time: 9:06 Weather Conditions: cloudy
Sampling Time: 920 Water Color: cloudy Odor: SLIGHT
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)
908	.75	5.47	569	60.6			
910	1.50	5.40	584	60.9			
912	2.0	5.44	599	61.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 1	6 x VOA VIALS	Y	HCL	LANCASTER	TPH(G)/btex/mtbe (8)OXY

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 206145 Job#: 386492
Address: 800 Center St. Date: 11-28-01
City: Oakland, CA Sampler: FB

Well ID MW-2 Well Condition: Insufficient Water
Well Diameter 2 in. Hydrocarbon Thickness: 01 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 9.93 ft.
Depth to Water 9.86 ft.

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

.07 X VF .17 = ____ 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: cloudy
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
MW-1	6 x VOAVIALS	Y	HCL	LANCASTER	TPH(G)/btex/mtbe (8/Oxy's)

COMMENTS: Insufficient Water .07 in CASING

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 206145 Job#: 386492
Address: 800 Center St. Date: 11-28-01
City: Oakland, CA Sampler: FB

Well ID: MW-3 Well Condition: OK
Well Diameter: 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth: 14.11 ft.
Depth to Water: 9.65 ft.

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

4.46 X VF .17 = .758 X 3 (case volume) = Estimated Purge Volume: 2.5 (gal.)

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

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

Starting Time: 938
Sampling Time: 954
Purging Flow Rate: gpm.
Did well de-water? NO

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

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
940	1	5.54	1532	61.4			
942	2	5.58	1481	61.7			
944	2.5	5.70	1460	61.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x VOA vials	Y	HCl	LANCASTER	TPH(G)/btex/mtbe (8/0xy)

COMMENTS:

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 206145 Job#: 386492
Address: 800 Center St. Date: 11-28-01
City: Oakland, CA Sampler: FB

Well ID MW-4 Well Condition: Dry
Well Diameter 2 in. Hydrocarbon Thickness: ____ (feet) Amount Bailed (product/water): ____ (Gallons)
Total Depth 8.55 ft.
Depth to Water Dry ft.

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

____ X VF .17 = ____ 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: cloudy
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
MW-4	6 x VOA vials	Y	HCl	LANCASTER	TPH(G)/btex/mtbe (8)Oxy's

COMMENTS: Dry

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 206145 Job#: 386492
Address: 800 Center St. Date: 11-28-01
City: Oakland, CA Sampler: FB

Well ID MW-5 Well Condition: VTA

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

Total Depth ____ ft.

Depth to Water ____ ft.

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

____ X VF 1.7 = ____ 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: cloudy
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
MW-5	6 x VOA VIALS	Y	HCL	LANCASTER	TPH(G)/btex/mtbe (8) Oxy's

COMMENTS: VTA CAR PARKED OVER WELL

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WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ CHEVRON
Facility # 206145 Job#: 386492
Address: 800 Center St. Date: 11-28-01
City: Oakland, CA Sampler: FB

Well ID MW-6 Well Condition: Dry
Well Diameter 2 in. Hydrocarbon Thickness: (feet) Amount Bailed (product/water): (Gallons)
Total Depth 8.50 ~~Dry~~ ft.
Depth to Water Dry ft.

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

_____ X VF .17 = _____ 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: Cloudy
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
MW-6	3 X VOA VIALS	Y	HCL	LANCASTER	TPH(G)/btex/mtbe

COMMENTS: Dry

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ CHEVRON
Facility # 206145 Job#: 386492
Address: 800 Center St. Date: 11-28-01
City: Oakland, CA Sampler: FB

Well ID MW-7 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)
Total Depth 17.98 ft.
Depth to Water 10.27 ft.

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

7.71 X VF .17 = 1.31 X 3 (case volume) = Estimated Purge Volume: 4 (gal.)

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

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

Starting Time: 8:26 Weather Conditions: cloudy
Sampling Time: 844 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)
829	1.5	6.90	1490	61.3			
832	3.0	6.93	1524	61.3			
835	4.0	6.94	1560	61.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 X VOA VIALS	Y	HCL	LANCASTER	TPH(G)/btex/mtbe

COMMENTS:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories — *Where quality is a science.*

281101-011

For Lancaster Laboratories use only — Acct. #: 10905 Sample #: 373583-6 SCR#:

Facility #: 206145 Job #386492 Global ID #T0600102230

Site Address: 800 CENTER ST., OAKLAND, 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: F BOHNET

Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

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	BTEX + MTBE 8260 ☐ 8021 ☒ (H)	TPH 8015 MOD GRO (H)	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates & (H)	Lead 7420 ☐ 7421 ☐	Comments / Remarks
QA	11-28-01					X		2	X	X					
MW-1		920	X			X		6	X	X			X		
MW-3		954	X			X		6	X	X			X		
MW-7		844	X			X		3	X	X					

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
Frank Bohnet	11/28/01	1320		11/28/01	15:26
	Date	Time	Received by:	Date	Time
	11/28/01	16:50		11-28-01	16:55
	Date	Time	Received by:	Date	Time
	11-29-01	14:30		11-29-01	
Relinquished by Commercial Carrier: UPS FedEx Other Airborne			Received by:	Date	Time
				11/30/01	0930
Temperature Upon Receipt 3.0 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 788319. Samples arrived at the laboratory on Friday, November 30, 2001. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description			Lancaster Labs Number
QA-T-011128	NA	Water	3735983
MW-1-W-011128	Grab	Water	3735984
MW-3-W-011128	Grab	Water	3735985
MW-7-W-011128	Grab	Water	3735986

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. Skiles
Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
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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 3735983

Collected:11/28/2001 00:00

Account Number: 10905

Submitted: 11/30/2001 09:30
Reported: 12/07/2001 at 23:45
Discard: 01/07/2002
QA-T-011128 NA Water

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

Facility# 206145 Job# 386492 GRD
800 CENTER-OAKLAND T0600102230 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. CALIF. LUFT Gasoline Method	1	12/04/2001 09:52	Anastasia C. Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/04/2001 09:52	Anastasia C. Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/04/2001 09:52	Anastasia C. Papadoplos	n.a.

#=Laboratory Method Detection 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 3735984

Collected:11/28/2001 09:20 by FB

Account Number: 10905

Submitted: 11/30/2001 09:30
Reported: 12/07/2001 at 23:45
Discard: 01/07/2002
MW-1-W-011128 Grab Water

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

Facility# 206145 Job# 386492 GRD
800 CENTER-OAKLAND T0600102230 MW-1

M1145

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.	26,000.	1,000.	ug/l	20
	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	1,300.	4.0	ug/l	20
00777	Toluene	108-88-3	3,900.	4.0	ug/l	20
00778	Ethylbenzene	100-41-4	620.	4.0	ug/l	20
00779	Total Xylenes	1330-20-7	3,400.	12.	ug/l	20
00780	Methyl tert-Butyl Ether	1634-04-4	N.D. #	100.	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. Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					
01594	BTEX + Oxygenates by 8260B					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1
02010	Methyl t-butyl ether	1634-04-4	N.D.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	130.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	2.	ug/l	1

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

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3735984

Collected:11/28/2001 09:20 by FB

Account Number: 10905

Submitted: 11/30/2001 09:30
Reported: 12/07/2001 at 23:45
Discard: 01/07/2002
MW-1-W-011128 Grab Water

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

Facility# 206145 Job# 386492 GRD
800 CENTER-OAKLAND T0600102230 MW-1

M1145

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

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. CALIF. LUFT Gasoline Method	1	12/04/2001 12:11	Anastasia C. Papadoplos	20
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/04/2001 12:11	Anastasia C. Papadoplos	20
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	12/04/2001 01:38	Nicole S. Albright	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/04/2001 12:11	Anastasia C. Papadoplos	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/04/2001 01:38	Nicole S. Albright	n.a.

#=Laboratory Method Detection 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 3735985

Collected:11/28/2001 09:54 by FB

Account Number: 10905

Submitted: 11/30/2001 09:30
Reported: 12/07/2001 at 23:45
Discard: 01/07/2002
MW-3-W-011128 Grab Water

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

Facility# 206145 Job# 386492 GRD
800 CENTER-OAKLAND T0600102230 MW-3

M3145

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.	57,000.	2,500.	ug/l	50
	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	10,000.	10.	ug/l	50
00777	Toluene	108-88-3	2,900.	10.	ug/l	50
00778	Ethylbenzene	100-41-4	2,900.	10.	ug/l	50
00779	Total Xylenes	1330-20-7	2,800.	30.	ug/l	50
00780	Methyl tert-Butyl Ether	1634-04-4	N.D. #	250.	ug/l	50
	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 MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.					
01594	BTEX + Oxygenates by 8260B					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	10
02010	Methyl t-butyl ether	1634-04-4	N.D. #	5.0	ug/l	10
02011	di-Isopropyl ether	108-20-3	N.D. #	5.0	ug/l	10
02013	Ethyl t-butyl ether	637-92-3	N.D. #	5.0	ug/l	10
02014	t-Amyl methyl ether	994-05-8	N.D. #	5.0	ug/l	10
02015	t-Butyl alcohol	75-65-0	1,500.	100.	ug/l	10
05402	1,2-Dichloroethane	107-06-2	N.D. #	5.0	ug/l	10
05412	1,2-Dibromoethane	106-93-4	N.D. #	5.0	ug/l	10

NOMTBE 2

#=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

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Lancaster Laboratories Sample No. WW 3735985

Collected:11/28/2001 09:54 by FB

Account Number: 10905

Submitted: 11/30/2001 09:30
Reported: 12/07/2001 at 23:45
Discard: 01/07/2002
MW-3-W-011128 Grab Water

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

Facility# 206145 Job# 386492 GRD
800 CENTER-OAKLAND T0600102230 MW-3

M3145

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

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

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. CALIF. LUFT Gasoline Method	1	12/04/2001 12:46	Anastasia C. Papadoplos	50
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/04/2001 12:46	Anastasia C. Papadoplos	50
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	12/04/2001 02:04	Nicole S. Albright	10
01146	GC VOA Water Prep	SW-846 5030B	1	12/04/2001 12:46	Anastasia C. Papadoplos	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/04/2001 02:04	Nicole S. Albright	n.a.

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

Analysis Report

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3735986

Collected:11/28/2001 08:44 by FB

Account Number: 10905

Submitted: 11/30/2001 09:30
Reported: 12/07/2001 at 23:45
Discard: 01/07/2002
MW-7-W-011128 Grab Water

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

Facility# 206145 Job# 386492 GRD
800 CENTER-OAKLAND T0600102230 MW-7

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. CALIF. LUFT Gasoline Method	1	12/04/2001 10:26	Anastasia C. Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/04/2001 10:26	Anastasia C. Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/04/2001 10:26	Anastasia C. Papadoplos	n.a.

#=Laboratory Method Detection 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: 788319
Reported: 12/07/01 at 11:45 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 01338A66	Sample number(s): 3735983-3735986							
Benzene	N.D.	0.5	ug/l	99	95	80-118	4	30
Toluene	N.D.	0.5	ug/l	98	95	82-119	3	30
Ethylbenzene	N.D.	0.5	ug/l	97	94	81-119	4	30
Total Xylenes	N.D.	1.5	ug/l	98	94	82-120	3	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	96	98	79-127	3	30
TPH-GRO - Waters	N.D.	50.	ug/l	108	108	76-119	1	20
Batch number: V013371AB	Sample number(s): 3735984-3735985							
Ethanol	N.D.	500.	ug/l	104		70-130		
Methyl t-butyl ether	N.D.	2.	ug/l	106		77-127		
di-Isopropyl ether	N.D.	2.	ug/l	109		74-125		
Ethyl t-butyl ether	N.D.	2.	ug/l	103		74-120		
t-Amyl methyl ether	N.D.	2.	ug/l	105		77-118		
t-Butyl alcohol	N.D.	100.	ug/l	117		58-147		
1,2-Dichloroethane	N.D.	2.	ug/l	104		84-131		
1,2-Dibromoethane	N.D.	2.	ug/l	103		84-119		

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: 01338A66	Sample number(s): 3735983-3735986								
Benzene	100		66-140						
Toluene	96		72-138						
Ethylbenzene	98		71-138						
Total Xylenes	98		69-140						
Methyl tert-Butyl Ether	297*		60-145						
TPH-GRO - Waters	33*	111	74-132	2	20				
Batch number: V013371AB	Sample number(s): 3735984-3735985								
Ethanol	88	108	70-130	20	30				
Methyl t-butyl ether	107	109	69-134	2	30				
di-Isopropyl ether	111	113	75-128	2	30				
Ethyl t-butyl ether	105	106	73-123	1	30				
t-Amyl methyl ether	105	106	69-126	1	30				
t-Butyl alcohol	116	120	50-157	3	30				
1,2-Dichloroethane	108	108	75-141	0	30				
1,2-Dibromoethane	103	105	78-120	2	30				

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 01338A66

*- 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
Where quality is a science.

Quality Control Summary

Client Name: Chevron Products Company Group Number: 788319
Reported: 12/07/01 at 11:45 PM

Surrogate Quality Control

	Trifluorotoluene-F	Trifluorotoluene-P
3735983	94	91
3735984	99	95
3735985	99	100
3735986	92	90
Blank	90	90
LCS	108	90
LCSD	106	91
MS	108	101
MSD	108	
Limits:	65-137	72-134

Analysis Name: BTEX + Oxygenates by 8260B
Batch number: V013371AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
3735984	102	96	102	104
3735985	102	102	103	100
Blank	103	98	105	101
LCS	100	101	106	103
MS	100	98	104	99
MSD	101	100	105	101
Limits:	86-118	80-120	88-110	86-115

*- 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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