Stacie H. Frerichs
Team Lead
Marketing Business Unit

Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-9655
Fax (925) 842-8370

May 24, 2011
(date)

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Facility #_9-1740_____

Address: 6550 Moraga Avenue, Oakland, California_____

I have reviewed the attached report titled *2011 Annual Groundwater Monitoring Report* and dated May 24, 2011.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

SH Frerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

CONESTOGA-ROVERS
& ASSOCIATES

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
http://www.craworld.com

May 24, 2011 Reference No. 611978

Mr. Mark Detterman, P.G., C.E.G.
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: 2011 Annual Groundwater Monitoring Report
Chevron Service Station 9-1740
6550 Moraga Avenue
Oakland, California
ACEH Case No. RO0000256

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated March 22, 2011) presents the results of the 2011 annual monitoring event. Sampling of wells C-2 through C-4 is performed annually during the first quarter. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the 2011 annual analytical results along with a rose diagram. The monitoring results during 2011 are summarized below.

During 2011, petroleum hydrocarbon concentrations in the site wells were similar to, or less than, those observed during 2010. Concentrations of total petroleum hydrocarbons as diesel (TPHd) (1,500 micrograms per liter [µg/L]), TPH as gasoline (TPHg) (2,500 µg/L), benzene (270 µg/L), and methyl tertiary butyl ether (MTBE) (250 µg/L) continue to be detected in C-4. The detected concentrations were within historical ranges in this well; however, the MTBE concentration was the lowest since 2003. Low concentrations of toluene, ethylbenzene, and xylenes (up to 7 µg/L) were also detected in C-4; these concentrations were also within historical ranges.

Only MTBE was detected in C-2 (80 µg/L) and C-3 (3 µg/L) during 2011. TPHd and TPHg are only periodically detected in C-2, and only at low concentrations; and benzene, toluene, ethylbenzene, and xylenes (BTEX) have not been detected since 1999. Although fluctuations occur, the MTBE concentrations in C-2 continue to decrease and have significantly decreased over the years. Petroleum hydrocarbons generally have not been detected in C-3 throughout the course of monitoring with the exception of low concentrations of MTBE.

CONESTOGA-ROVERS
& ASSOCIATES

Based on the analytical results, impacted groundwater remains beneath the site in the area of well C-4 just downgradient of the underground storage tanks (USTs); concentrations in this well have remained relatively stable with the exception of MTBE; which is decreasing. Only low concentrations of MTBE remain in wells C-2 and C-3.

Based on previous investigation results, the extent of hydrocarbons in groundwater has been adequately defined to the extent possible and the site is a good candidate for low-risk case closure. As such, CRA recommends discontinuing groundwater monitoring. To address ACEH's remaining concern prior to closure concurrence, CRA prepared and submitted the December 10, 2010 *Evaluation of Potential Discharge of Petroleum Hydrocarbons to Shepherd Creek via Preferential Pathway Migration*, and we are currently awaiting a response from ACEH.

Please note that Ms. Olivia Skance has replaced Ms. Stacie Frerichs as the Chevron Project Manager and all future correspondence should be directed to her at 6101 Bollinger Canyon Road, San Ramon, CA 94583.

CONESTOGA-ROVERS
& ASSOCIATES

May 24, 2011 Reference No. 611978

Please contact James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

James P. Kiernan, P.E.

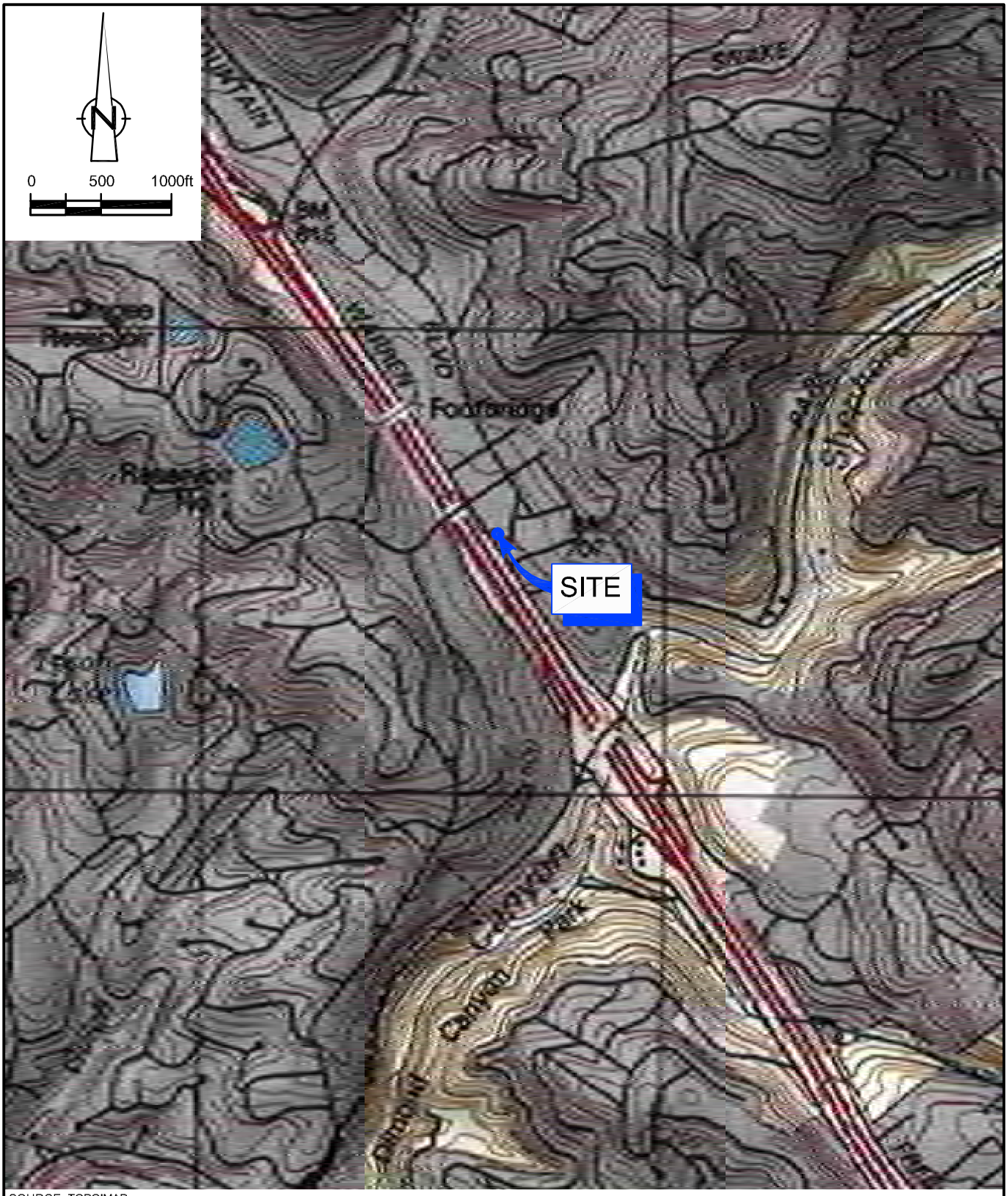
JK/aa/5
Encl.

Figure 1 Vicinity Map
Figure 2 Concentration Map – February 28, 2011

Attachment A Groundwater Monitoring and Sampling Report

cc: Ms. Olivia Skance, Chevron *(electronic copy)*
Mr. Douglas Durein, Ken Betts, Inc.

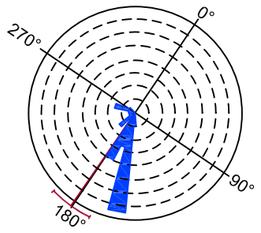
FIGURES



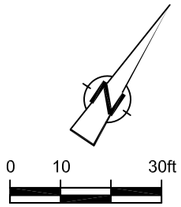
SOURCE: TOPO!MAP

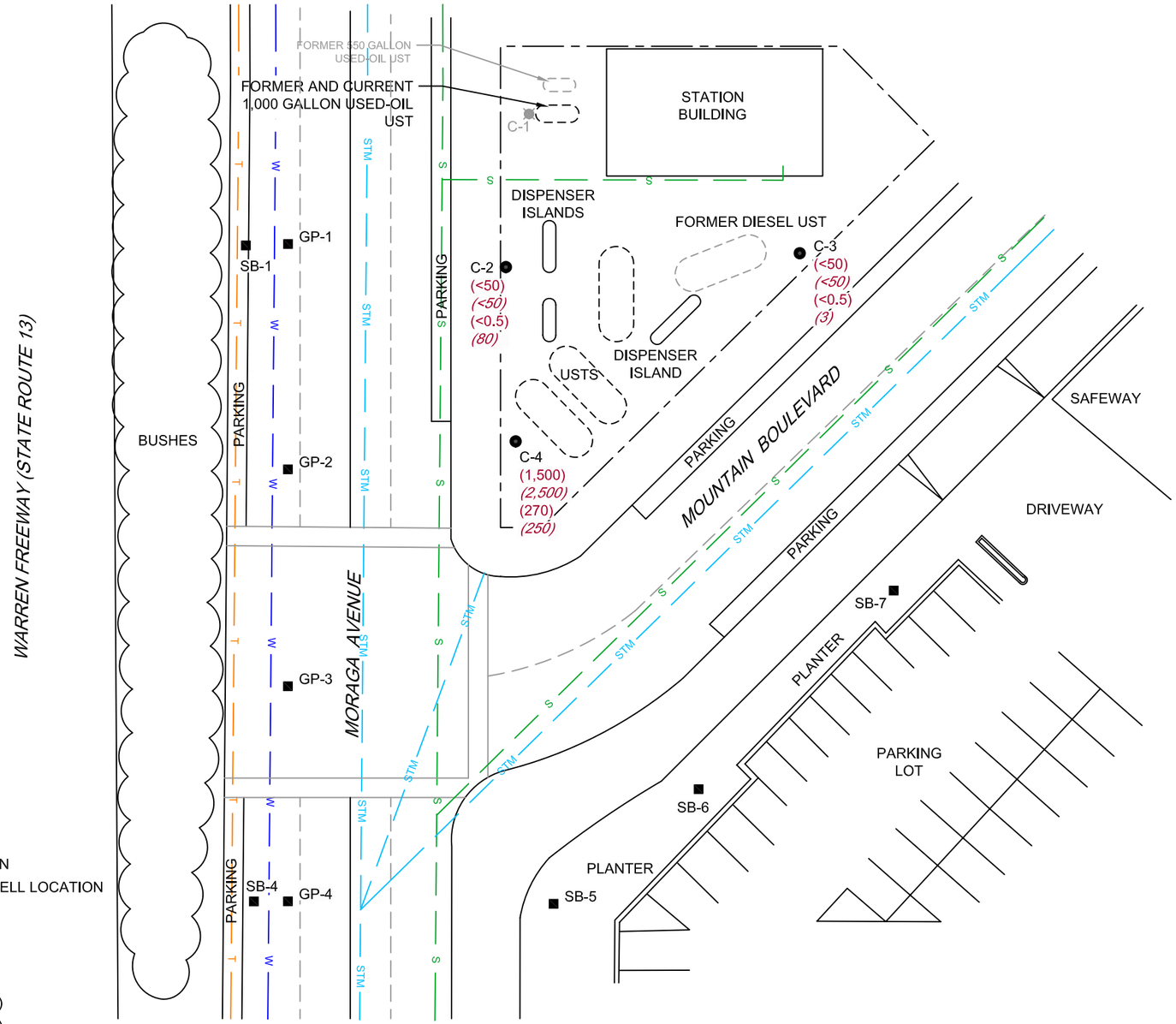
figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-1740
6550 MORAGA AVENUE
Oakland, California



HISTORICAL GROUNDWATER FLOW DIRECTION





LEGEND

GP-1 ■	SOIL BORING LOCATION
C-2 ●	MONITORING WELL LOCATION
C-1 ✱	DESTROYED MONITORING WELL LOCATION
S	SEWER LINE
STM	STORM DRAIN
W	WATER LINE
T	SBC LINE
(59)	TPHd CONCENTRATION (ug/L)
(57)	TPHg CONCENTRATION (ug/L)
(<0.5)	BENZENE CONCENTRATION (ug/L)
(150)	MTBE CONCENTRATION (ug/L)
<	NOT DETECTED AT OR ABOVE STATED REPORTING LIMIT

* FEATURES OUTSIDE OF SERVICE STATION NOT SURVEYED

figure 2

CONCENTRATION MAP - FEBRUARY 28, 2011
CHEVRON SERVICE STATION 9-1740
6550 MORAGA AVENUE
Oakland, California

611978-199(005)GN-WA002 MAY 24/2011

ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT

GETTLER-RYAN INC.

March 22, 2011
G-R Job #386507

Ms. Stacie H. Frerichs
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3596
San Ramon, CA 94583

RE: Annual Event of February 28, 2011
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

Dear Ms. Frerichs:

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. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

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

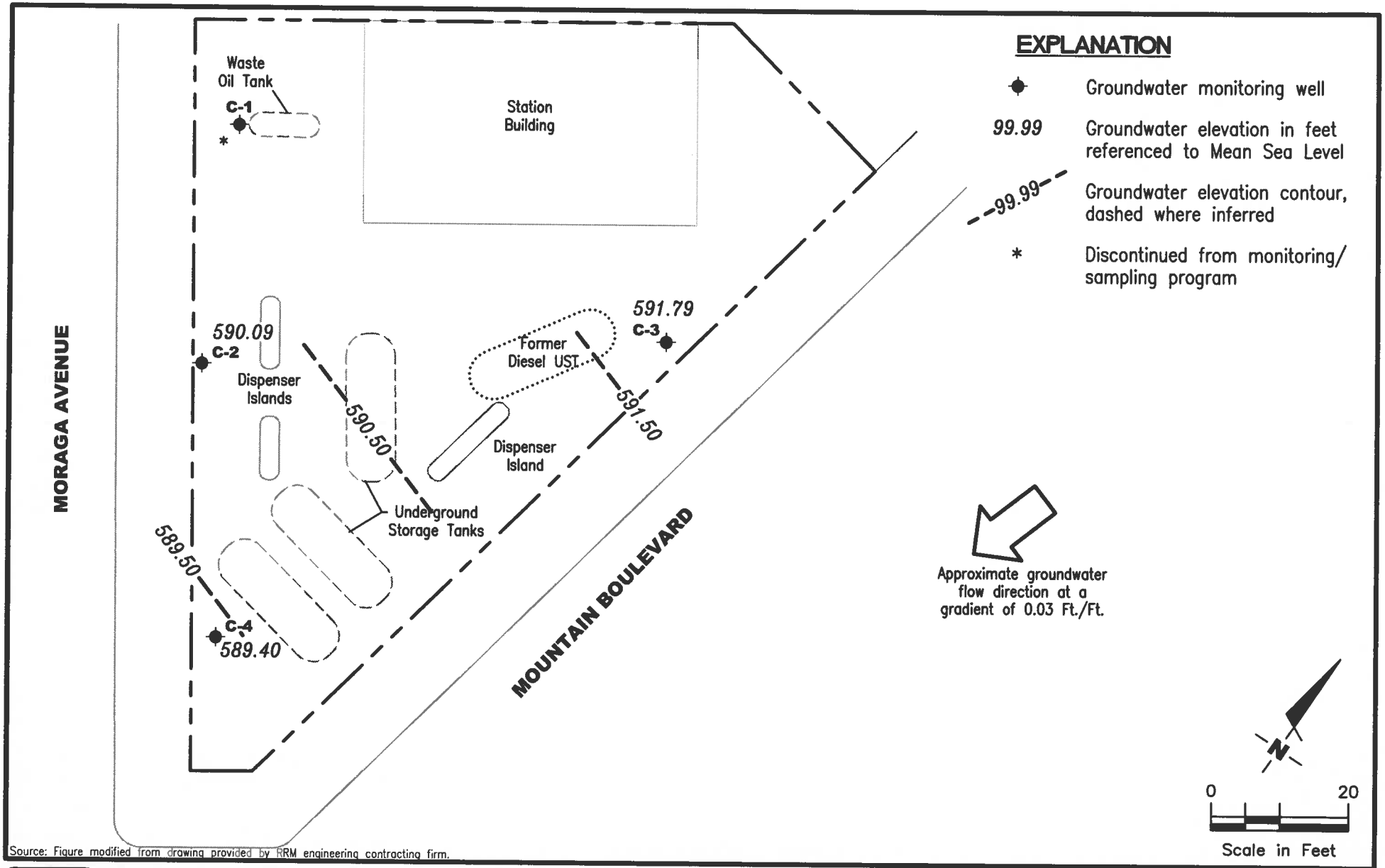
Sincerely,

Deanna L. Harding
Project Coordinator

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

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

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Dissolved Oxygen Concentrations
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 Court, Suite J
Dublin, CA 94568
(925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER
386507

REVIEWED BY

DATE
February 28, 2011

REVISED DATE

FILE NAME: P:\Enviro\Chevron\9-1740\Q11-9-1740.DWG | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-2											
03/25/91	594.57	571.68	22.89	--	--	<50	1.0	<0.5	<0.5	2.0	--
07/01/91	594.57	587.20	7.37	--	--	660	190	2.5	28	22	--
09/25/91	594.57	587.59	6.98	--	--	110	200	1.9	21	1.7	--
12/23/91	594.57	589.56	5.01	--	--	<50	1.2	1.2	<0.5	1.8	--
03/24/92	594.57	577.30	17.27	--	--	100	5.9	7.9	4.0	14	--
06/23/92	594.57	590.75	3.82	--	--	190	45	4.5	9.5	10	--
09/30/92	594.57	580.56	14.01	--	--	240	99	2.3	11	6.1	--
12/16/92	594.57	580.05	14.52	--	--	280	160	6.2	7.4	5.0	--
03/30/93	594.57	583.49	11.08	--	--	110	21	<0.5	0.8	<1.5	--
06/10/93	594.57	583.08	11.49	--	--	180	53	2.6	8.0	5.8	--
09/02/93	594.57	580.49	14.08	--	--	51	18	0.8	4.4	<1.5	--
12/06/93	594.57	579.87	14.70	--	--	<50	20	1.3	2.7	<0.5	--
03/02/94	594.57	579.70	14.87	--	--	<50	9.9	1.6	<0.5	0.8	--
06/03/94	594.57	579.35	15.22	--	--	440	300	2.7	61	2.1	--
09/07/94	594.57	587.27	7.30	--	--	80	30	<0.5	1.6	<0.5	--
12/06/94	594.57	589.29	5.28	--	--	120	51	<0.5	4.7	<0.5	--
03/31/95	594.57	589.13	5.44	--	--	770	250	<5.0	74	<5.0	--
06/15/95	594.57	589.62	4.95	--	--	240	76	<1.0	26	<1.0	--
09/25/95	594.57	587.78	6.79	--	--	<50	1.2	<0.5	<0.5	<0.5	--
12/19/95	594.57	588.94	5.63	--	--	<250	23	<2.5	<2.5	<2.5	860
03/31/97	594.57	589.74	4.83	--	--	<500	48	<5.0	<5.0	<5.0	2,900
06/23/97	594.57	589.98	4.59	--	--	1200	240	<10	<10	<10	4,900
09/02/97	594.57	590.02	4.55	--	--	1400	340	<5.0	54	6.9	2,500
12/15/97	594.57	590.26	4.31	--	--	540	100	<2.5	8.7	<2.5	2,400
03/10/98	594.57	590.00	4.57	--	--	<500	<5.0	<5.0	<5.0	<5.0	3,000
06/16/98	594.57	589.99	4.58	--	--	120	6.6	<1.0	<1.0	<1.0	2,500
08/25/98	594.57	589.67	4.90	--	--	140	<0.5	<0.5	<0.5	<0.5	2,600
12/29/98	594.57	589.77	4.80	--	--	1830	17.7	<10.0	<10.0	14.9	4,600/4,890[1]
03/09/99	594.57	590.21	4.36	--	--	120	16	<1.0	<1.0	<1.0	3,400
06/23/99[2]	594.57	589.92	4.65	--	--	--	--	--	--	--	--
09/28/99	594.57	585.99	8.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	1,250
02/29/00	594.57	586.59	7.98	--	--	122	<0.5	<0.5	<0.5	<0.5	249
08/29/00	594.57	587.52	7.05	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	390
03/27/01	594.57	587.73	6.84	0.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	9.72
09/05/01[4]	594.57	587.37	7.20	0.00	58[5]	360	<0.50	<0.50	<0.50	<1.5	1,300/1,000[1]
03/04/02[4]	594.57	587.59	6.98	0.00	270[6]	190	<0.50	<0.50	<0.50	<1.5	440

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-2 (cont)											
09/03/02[4]	594.57	587.29	7.28	0.00	760[6]	120	<0.50	<0.50	<0.50	<1.5	290
03/29/03[4]	594.57	588.06	6.51	0.00	<50[6]	53	<0.5	<0.5	<0.5	<1.5	73
09/23/03[4,7]	594.57	587.71	6.86	0.00	64[6]	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04[7,8]	594.57	587.35	7.22	0.00	<50[6]	82	<0.5	<0.5	<0.5	<0.5	370
09/13/04[7]	594.57	589.16	5.41	0.00	<50[6]	67	<0.5	<0.5	<0.5	<0.5	530
03/11/05[7]	594.57	589.84	4.73	0.00	84[6]	110	<0.5	<0.5	<0.5	<0.5	580
09/29/05[7]	594.57	589.01	5.56	0.00	82[6,9]	61	<0.5	<0.5	<0.5	<0.5	320
03/20/06[7]	594.57	590.15	4.42	0.00	120[6]	<50	<0.5	<0.5	<0.5	<0.5	500
08/25/06[7]	594.57	589.06	5.51	0.00	130[6]	93	<0.5	<0.5	<0.5	<0.5	460
03/12/07[7]	594.57	589.66	4.91	0.00	--[10]	<50	<0.5	<0.5	<0.5	<0.5	110
03/21/07	594.57	589.85	4.72	0.00	220[6]	--	--	--	--	--	--
09/21/07[7]	594.57	588.93	5.64	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	180
03/10/08[7]	594.57	589.76	4.81	0.00	<50[6]	73	<0.5	<0.5	<0.5	<0.5	170
09/15/08[7]	594.57	588.61	5.96	0.00	59[6]	57	<0.5	<0.5	<0.5	<0.5	150
03/03/09[7]	594.57	589.92	4.65	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	54
08/31/09[7]	594.57	588.66	5.91	0.00	<50[6]	89	<0.5	<0.5	<0.5	<0.5	240
03/24/10[7]	594.57	590.04	4.53	0.00	62[6]	<50	<0.5	<0.5	<0.5	<0.5	50
02/28/11[7]	**594.57**	**590.09**	**4.48**	**0.00**	**<50[6]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**80**
C-3											
03/25/91	597.14	591.98	5.16	--	--	<50	<0.5	<0.5	<0.5	0.5	--
07/01/91	597.14	591.30	5.84	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	597.14	591.20	5.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	597.14	591.20	5.94	--	--	<50	1.0	<0.5	<0.5	1.5	--
03/24/92	597.14	592.37	4.77	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	597.14	591.47	5.67	--	--	<50	0.9	1.1	0.5	1.6	--
09/30/92	597.14	590.84	6.30	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	597.14	591.57	5.57	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	597.14	592.08	5.06	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	597.14	591.85	5.29	--	--	<50	0.6	1.9	0.6	3.5	--
09/02/93	597.14	591.22	5.92	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	597.14	591.38	5.76	--	--	<50	<0.5	0.6	<0.5	<0.5	--
03/02/94	597.14	591.97	5.17	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	597.14	591.74	5.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-3 (cont)											
09/07/94	597.14	591.14	6.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	597.14	591.95	5.19	--	--	<50	<0.5	0.8	<0.5	<0.5	--
03/31/95	597.14	592.04	5.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	597.14	591.78	5.36	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	597.14	591.04	6.10	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	597.14	591.46	5.68	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/31/97	597.14	590.65	6.49	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	597.14	590.63	6.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	597.14	591.07	6.07	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	597.14	590.86	6.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	597.14	590.89	6.25	--	--	<50	<0.5	<0.5	<0.5	<0.5	4
06/16/98	597.14	590.80	6.34	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	597.14	590.61	6.53	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	597.14	590.59	6.55	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	597.14	591.20	5.94	--	--	<50	<0.5	<0.5	<0.5	<0.5	3
09/28/99	597.14	590.26	6.88	--	SAMPLED ANNUALLY		--	--	--	--	--
02/29/00	597.14	591.56	5.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	10
08/29/00	597.14	590.53	6.61	0.00	--	--	--	--	--	--	--
03/27/01	597.14	591.00	6.14	0.00	--	264	<2.50	<2.50	<2.50	<2.50	870
09/05/01	597.14	590.46	6.68	0.00	--	--	--	--	--	--	--/<2[1]
03/04/02	597.14	590.93	6.21	0.00	<50[6]	<50	<0.50	<0.50	<0.50	<1.5	<5.0
09/03/02	597.14	590.40	6.74	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/29/03	597.14	590.86	6.28	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<1.5	<2.5
09/23/03	597.14	590.51	6.63	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/19/04[7]	597.14	591.24	5.90	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	2
09/13/04	597.14	591.85	5.29	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/11/05[7]	597.14	591.53	5.61	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	2
09/29/05	597.14	590.22	6.92	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/20/06[7]	597.14	591.86	5.28	0.00	<50[6]	<50	<0.5	<0.5	<0.5	<0.5	3
08/25/06	597.14	590.51	6.63	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/12/07[7]	597.14	591.07	6.07	0.00	--[10]	55	<0.5	<0.5	<0.5	<0.5	2
03/21/07	597.14	590.91	6.23	0.00	240[6]	--	--	--	--	--	--
09/21/07	597.14	590.29	6.85	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/10/08[7]	597.14	590.89	6.25	0.00	<50[6]	87	<0.5	<0.5	<0.5	<0.5	3
09/15/08	597.14	590.15	6.99	0.00	SAMPLED ANNUALLY		--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-3 (cont)											
03/03/09[7]	597.14	591.22	5.92	0.00	55[6]	<50	<0.5	<0.5	<0.5	<0.5	3
08/31/09	597.14	590.38	6.76	0.00	SAMPLED ANNUALLY		--	--	--	--	--
03/24/10[7]	597.14	591.82	5.32	0.00	77[6]	<50	<0.5	<0.5	<0.5	<0.5	3
02/28/11[7]	**597.14**	**591.79**	**5.35**	**0.00**	**<50[6]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3**
C-4											
03/25/91	593.10	588.65	4.45	--	--	2700	240	16	<0.5	350	--
07/01/91	593.10	587.77	5.33	--	--	7900	1500	230	340	350	--
09/25/91	593.10	587.60	5.50	--	--	3200	850	160	150	220	--
12/23/91	593.10	588.18	4.92	--	--	4100	390	52	42	340	--
03/24/92	593.10	589.06**	4.19	0.19	--	--	--	--	--	--	--
06/23/92	593.10	588.34**	4.91	0.30	--	--	--	--	--	--	--
09/30/92	593.10	584.44	8.66	--	--	450	97	14	12	29	--
12/16/92	593.10	583.30	9.80	--	--	590	130	18	5.6	29	--
03/30/93	593.10	583.25**	10.00	0.12	--	--	--	--	--	--	--
06/10/93	593.10	583.46	9.64	--	--	1300	290	36	17	73	--
09/02/93	593.10	583.02	10.08	--	--	630	97	12	6.6	21	--
12/06/93	593.10	582.85	10.25	--	--	1900	600	68	27	130	--
03/02/94	593.10	584.36	8.74	--	--	2600	1200	110	43	180	--
06/03/94	593.10	583.27	9.83	--	--	780	180	13	8.5	26	--
09/07/94	593.10	582.80	10.30	--	--	<50	14	<0.5	0.7	<0.5	--
12/06/94	593.10	583.90	9.20	--	--	980	270	21	12	38	--
03/31/95	593.10	582.86	10.24	--	--	1500	450	25	11	49	--
06/15/95	593.10	582.78	10.32	--	--	960	250	15	4.5	37	--
09/25/95	593.10	584.72	8.38	--	--	<500	18	<5.0	<5.0	<5.0	--
12/19/95	593.10	582.94	10.16	--	--	<500	32	<5.0	<5.0	<5.0	2,400
03/31/97	593.10	588.42	4.68	--	--	3400	960	51	64	140	2,100
06/23/97	593.10	588.36	4.74	--	--	1600	580	19	8.2	27	2,300
09/02/97	593.10	588.33	4.77	--	--	6900	1400	59	130	410	3,100
12/15/97	593.10	588.60	4.50	--	--	3300	1200	37	74	130	3,700
03/10/98	593.10	588.92	4.18	--	--	1100	250	19	13	62	4,000
06/16/98	593.10	586.53	6.57	--	--	1200	350	<10	12	39	4,500
08/25/98	593.10	586.30	6.80	--	--	290	24	0.72	0.87	1.9	3,600
12/29/98	593.10	586.80	6.30	--	--	3190	957	<25	<25	<25	8,100/8,500[1]
03/09/99	593.10	585.87	7.23	--	--	2200	850	15	35	56	5,900

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
C-4 (cont)											
06/23/99[2]	593.10	585.60	7.50	--	--	--	--	--	--	--	--
09/28/99	593.10	586.15	6.95	--	--	1390	7.85	<5.0	<5.0	<5.0	4,190
02/29/00	593.10	586.09	7.01	--	--	<50	1.35	<0.5	<0.5	<0.5	310
08/29/00	593.10	586.58	6.52	0.00	--	150[3]	60	<0.50	0.79	0.78	570
03/27/01	593.10	587.29	5.81	0.00	--	986	27.2	<2.50	3.25	4.11	252
09/05/01[4]	593.10	586.72	6.38	0.00	3,800[5]	330	140	0.84	<0.50	<1.5	580/520[1]
03/04/02[4]	593.10	587.44	5.66	0.00	2,900[6]	170	67	<0.50	<0.50	<1.5	510
09/03/02[4]	593.10	586.62	6.48	0.00	1,900[6]	<50	12	<0.50	<0.50	<1.5	64
03/29/03[4]	593.10	587.26	5.84	0.00	950[6]	<50	3.3	<0.5	<0.5	<1.5	67
09/23/03[4,7]	593.10	586.91	6.19	0.00	57[6]	<50	<0.5	<0.5	<0.5	<0.5	12
03/17/04[7,8]	593.10	587.12	5.98	0.00	1,900[6]	1,500	310	5	2	4	520
09/13/04[7]	593.10	588.22	4.88	0.00	1,300[6]	840	260	3	2	1	990
03/11/05[7]	593.10	589.20	3.90	0.00	2,900[6]	350	66	1	<1	<1	1,100
09/29/05[7]	593.10	585.07	8.03	0.00	2,500[6]	740	160	2	1	<1	1,500
03/20/06[7]	593.10	589.47	3.63	0.00	1,200[6]	1,400	300	5	1	2	1,600
08/25/06[7]	593.10	588.30	4.80	0.00	1,300[6]	450	82	2	<0.5	<0.5	1,300
03/12/07[7]	593.10	585.50	7.60	0.00	--[10]	670	110	1	<0.5	<0.5	1,100
03/21/07	593.10	585.07	8.03	0.00	1,800[6]	--	--	--	--	--	--
09/21/07[7]	593.10	585.20	7.90	0.00	2,100[6]	260	18	<0.5	<0.5	<0.5	1,100
03/10/08[7]	593.10	585.69	7.41	0.00	7,500[6]	560	72	1	<0.5	<0.5	1,100
03/15/08	593.10	586.45	6.65	0.00	--	--	--	--	--	--	--
09/15/08[7]	593.10	585.10	8.00	0.00	5,200[6]	760	110	2	0.6	<0.5	1,100
03/03/09[7]	593.10	585.94	7.16	0.00	1,800[6]	1,700	360	5	2	1	900
08/31/09[7]	593.10	585.17	7.93	0.00	2,000[6]	2,700	440	11	3	3	930
03/24/10[7]	593.10	589.36	3.74	0.00	1,600[6]	2,100	270	7	2	3	470
02/28/11[7]	**593.10**	**589.40**	**3.70**	**0.00**	**1,500[6]**	**2,500**	**270**	**7**	**3**	**3**	**250**
C-1											
03/25/91	595.82	592.54	3.28	--	--	54	0.7	<0.5	<0.5	2.0	--
07/01/91	595.82	592.39	3.43	--	--	730	250	3.0	16	4.8	--
09/25/91	595.82	591.67	4.15	--	--	160	68	1.3	6.1	1.3	--
12/23/91	595.82	592.11	3.71	--	--	170	70	1.6	3.5	2.4	--
03/24/92	595.82	592.80	3.02	--	--	60	39	4.4	3.9	9.1	--
06/23/92	595.82	592.06	3.76	--	--	60	19	1.1	1.1	1.0	--

NOT MONITORED/SAMPLED

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK											
03/25/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
07/01/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/23/91	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/24/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/23/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/30/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/16/92	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/30/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/10/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
09/02/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
12/06/93	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/02/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/03/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/07/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/06/94	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/25/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/95	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/23/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/02/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/15/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/10/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/16/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
08/25/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/29/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
03/09/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/28/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/29/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/29/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/27/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500
09/05/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/04/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA											
09/03/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/29/03	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
09/23/03[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/19/04[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/13/04[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/11/05[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/29/05[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/20/06[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/25/06[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/12/07[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/21/07[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/08[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/15/08[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/03/09[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/31/09[7]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
DISCONTINUED											

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to August 29, 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
SPHT = Separate Phase Hydrocarbon Thickness

TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
B = Benzene
T = Toluene

E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
(µg/L) = Micrograms per liter
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations are referenced to msl.

** GWE corrected for the presence of Separate Phase Hydrocarbons (SPH), correction factor: [(TOC-DTW)+(SPHTx0.80)].

1 Confirmation run.

2 ORC installed.

3 Laboratory report indicates unidentified hydrocarbons C6-C12.

4 ORC in well.

5 Although requested on the Chain of Custody; Laboratory did not perform TPH-D analysis with silica-gel cleanup.

6 Analyzed with silica gel cleanup.

7 BTEX and MTBE by EPA Method 8260.

8 ORC removed.

9 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel and is also due to individual peaks eluting in the DRO range.

10 Sample containers were lost during shipping.

Table 2

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
C-2	08/29/00	1.97	--
	03/27/01	3.60	--
	09/05/01	2.80	--
	03/04/02	3.10	--
	09/03/02	2.70	--
	03/29/03	2.20	--
	09/23/03	0.50	--
C-4	08/29/00	2.11	--
	03/27/01	2.90	--
	09/05/01	2.30	--
	03/04/02	2.90	--
	09/03/02	2.10	--
	03/29/03	1.90	--
	09/23/03	0.40	--

EXPLANATIONS:

(mg/L) = Milligrams per liter

-- = Not Measured

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-2	09/05/01	--	<100	1,000	<2	240	30	<2	<2
	09/23/03	<50	--	12	--	--	--	--	--
	03/19/04	<50	--	370	--	--	--	--	--
	09/13/04	<50	--	530	--	--	--	--	--
	03/11/05	<50	--	580	--	--	--	--	--
	09/29/05	<50	--	320	--	--	--	--	--
	03/20/06	<50	--	500	--	--	--	--	--
	08/25/06	<50	--	460	--	--	--	--	--
	03/12/07	<50	--	110	--	--	--	--	--
	09/21/07	<50	--	180	--	--	--	--	--
	03/10/08	<50	--	170	--	--	--	--	--
	09/15/08	<50	--	150	--	--	--	--	--
	03/03/09	<50	--	54	--	--	--	--	--
	08/31/09	<50	--	240	--	--	--	--	--
	03/24/10	--	--	50	--	--	--	--	--
	02/28/11	--	--	**80**	--	--	--	--	--
C-3	09/05/01	--	<100	<2	<2	<2	<2	<2	<2
	03/19/04	<50	--	2	--	--	--	--	--
	09/13/04	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/11/05	<50	--	2	--	--	--	--	--
	03/20/06	<50	--	3	--	--	--	--	--
	03/12/07	<50	--	2	--	--	--	--	--
	03/10/08	<50	--	3	--	--	--	--	--
	09/15/08	SAMPLED ANNUALLY		--	--	--	--	--	--
	03/03/09	<50	--	3	--	--	--	--	--
	03/24/10	--	--	3	--	--	--	--	--
	02/28/11	--	--	**3**	--	--	--	--	--
C-4	09/05/01	--	<100	520	<2	<2	15	<2	<2
	09/23/03	<50	--	12	--	--	--	--	--
	03/19/04	<50	--	520	--	--	--	--	--
	09/13/04	<100	--	990	--	--	--	--	--
	03/11/05	<100	--	1,100	--	--	--	--	--
	09/29/05	<100	--	1,500	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740

6550 Moraga Avenue

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
C-4 (cont)	03/20/06	<50	--	1,600	--	--	--	--	--
	08/25/06	<50	--	1,300	--	--	--	--	--
	03/12/07	<50	--	1,100	--	--	--	--	--
	09/21/07	<50	--	1,100	--	--	--	--	--
	03/10/08	<50	--	1,100	--	--	--	--	--
	09/15/08	<50	--	1,100	--	--	--	--	--
	03/03/09	<100	--	900	--	--	--	--	--
	08/31/09	<50	--	930	--	--	--	--	--
	03/24/10	--	--	470	--	--	--	--	--
	02/28/11	--	--	**250**	--	--	--	--	--

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-1740
6550 Moraga Avenue
Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(µg/L) = Micrograms per liter
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. 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, as directed by the scope of work. 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.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-1740 | Job Number: 386507
Site Address: 6550 Moraga Avenue | Event Date: 2-28-11 (inclusive)
City: Oakland, CA | Sampler: Joe

Well ID: C-2 | Date Monitored: 2-28-11
Well Diameter: 2 in.
Total Depth: 26.90 ft.
Depth to Water: 4.48 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

22.42 xVF 0.17 = 3.81 x3 case volume = Estimated Purge Volume: 11.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.96

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0755 | Weather Conditions: cloudy
Sample Time/Date: 0830 12-28-11 | Water Color: clear | Odor: Y / N
Approx. Flow Rate: ~ gpm. | Sediment Description: none
Did well de-water? no | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 5.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0804	4	7.43	797	17.0		
0810	8	7.35	818	16.8		
0817	11.5	7.31	826	16.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)

COMMENTS:

Add/Replaced Lock: ✓ Add/Replaced Plug: 2 ✓ Add/Replaced Bolt: —

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-1740** Job Number: **386507**

Site Address: **6550 Moraga Avenue** Event Date: 2-28-11 (inclusive)

City: **Oakland, CA** Sampler: Joe

Well ID C-3 Date Monitored: 2-28-11

Well Diameter 2 in.

Total Depth 18.91 ft.

Depth to Water 5.35 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.56 xVF 0.17 = 2.31 x3 case volume = Estimated Purge Volume: 7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.06

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0842 Weather Conditions: cloudy

Sample Time/Date: 0912 / 12-28-11 Water Color: clear Odor: Y / (N)

Approx. Flow Rate: — gpm. Sediment Description: none

Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 6.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0850	2.5	6.97	957	16.6		
0856	5	7.15	942	16.8		
0859	7	7.21	951	16.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)

COMMENTS:

Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ 2" Add/Replaced Bolt: —

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-1740** Job Number: **386507**

Site Address: **6550 Moraga Avenue** Event Date: 2-28-11 (inclusive)

City: **Oakland, CA** Sampler: Joe

Well ID C-4 Date Monitored: 2-28-11

Well Diameter 2 in.

Total Depth 24.73 ft.

Depth to Water 3.70 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

21.03 xVF 0.17 = 3.58 x3 case volume = Estimated Purge Volume: 11 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.90

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0930 Weather Conditions: Cloudy

Sample Time/Date: 1005 / 2-8-11 Water Color: Clear Odor: Y / N Moderate

Approx. Flow Rate: ~ gpm. Sediment Description: None

Did well de-water? No If yes, Time: — Volume: — gal. DTW @ Sampling: 4.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0940	4	6.75	556	16.7		
0948	8	6.70	562	16.9		
0955	11	6.73	567	16.5		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
C-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)

COMMENTS:

Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ 2" Add/Replaced Bolt: (3) ½"

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

63611-03

For Lancaster Laboratories use only

Acct. #: 12099 Sample # 6219437-39 Group #: 005843

C# 1235352

CRA MTI Project #: 61H-1978

Facility #: SS#9-1740 G-R#386507 Global ID#T0600100353

Site Address: 6550 MORAGA AVENUE, OAKLAND, CA

Chevron PM: MTI Lead Consultant: CRAKJ Kiernan

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: JOE AJEMIAN

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Potable	NPDES	Total Number of Containers	Preservation Codes	Analyses Requested: BTEX + MTBE 8260 ☐ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
C-2	2-28-11	0830	✓			✓					8	H	✓	✓	✓					
C-3	"	0912	"			"					8	H	✓	✓	✓					
C-4	"	1005	"			"					8	H	✓	✓	✓					

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) **EDF/EDD**

QC Summary Type I - Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	3-1-11	1200	Received by:	01MAR11	1200
Relinquished by:	3/1/11	1617	Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	3/2/11	0935
Temperature Upon Receipt 2.0-2.0 C°			Custody Seals Intact? Yes No		

Lancaster Laboratories
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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron c/o CRA
Suite 107
10969 Trade Center Dr
Rancho Cordova CA 95670

March 14, 2011

Project: 91740

Submittal Date: 03/02/2011
Group Number: 1235352
PO Number: 91740
Release Number: MTI
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
C-2-W-110228 Grab Water	6219437
C-3-W-110228 Grab Water	6219438
C-4-W-110228 Grab Water	6219439

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Gettler-Ryan, Inc.	Attn: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: C-2-W-110228 Grab Water
Facility# 91740 Job# 386507 MTI# 61H-1978 GRD
6550 Moraga Ave-Oakland T0600100353 C-2

LLI Sample # WW 6219437
LLI Group # 1235352
Account # 12099

Project Name: 91740

Collected: 02/28/2011 08:30 by JA

Submitted: 03/02/2011 09:35
Reported: 03/14/2011 11:04

Chevron c/o CRA
Suite 107
10969 Trade Center Dr
Rancho Cordova CA 95670

MAO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	80	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P110623AA	03/04/2011 00:07	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110623AA	03/04/2011 00:07	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11062C07A	03/04/2011 19:23	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11062C07A	03/04/2011 19:23	Katrina T Longenecker	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110610030A	03/08/2011 20:18	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110610030A	03/03/2011 03:00	Sherry L Morrow	1

Lancaster Laboratories

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Analysis Report

Sample Description: C-3-W-110228 Grab Water
Facility# 91740 Job# 386507 MTI# 61H-1978 GRD
6550 Moraga Ave-Oakland T0600100353 C-3

LLI Sample # WW 6219438
LLI Group # 1235352
Account # 12099

Project Name: 91740

Collected: 02/28/2011 09:12 by JA

Submitted: 03/02/2011 09:35
Reported: 03/14/2011 11:04

Chevron c/o CRA
Suite 107
10969 Trade Center Dr
Rancho Cordova CA 95670

MAO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P110623AA	03/04/2011 01:30	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110623AA	03/04/2011 01:30	Kelly E Keller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11062C07A	03/04/2011 19:48	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11062C07A	03/04/2011 19:48	Katrina T Longenecker	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110610030A	03/08/2011 20:35	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110610030A	03/03/2011 03:00	Sherry L Morrow	1

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Analysis Report

Sample Description: C-4-W-110228 Grab Water
Facility# 91740 Job# 386507 MTI# 61H-1978 GRD
6550 Moraga Ave-Oakland T0600100353 C-4

LLI Sample # WW 6219439
LLI Group # 1235352
Account # 12099

Project Name: 91740

Collected: 02/28/2011 10:05 by JA

Submitted: 03/02/2011 09:35
Reported: 03/14/2011 11:04

Chevron c/o CRA
Suite 107
10969 Trade Center Dr
Rancho Cordova CA 95670

MAO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	270	5	10
10943	Ethylbenzene	100-41-4	3	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	250	0.5	1
10943	Toluene	108-88-3	7	0.5	1
10943	Xylene (Total)	1330-20-7	3	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,500	50	1
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,500	50	1

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P110623AA	03/04/2011 01:58	Kelly E Keller	1
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	P110623AA	03/04/2011 02:26	Kelly E Keller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P110623AA	03/04/2011 01:58	Kelly E Keller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	P110623AA	03/04/2011 02:26	Kelly E Keller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11062C07A	03/04/2011 20:13	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11062C07A	03/04/2011 20:13	Katrina T Longenecker	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	110610030A	03/08/2011 20:53	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	110610030A	03/03/2011 03:00	Sherry L Morrow	1

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 03/14/11 at 11:04 AM

Group Number: 1235352

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: P110623AA	Sample number(s): 6219437-6219439							
Benzene	N.D.	0.5	ug/l	95		79-120		
Ethylbenzene	N.D.	0.5	ug/l	96		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	100		76-120		
Toluene	N.D.	0.5	ug/l	97		79-120		
Xylene (Total)	N.D.	0.5	ug/l	95		80-120		
Batch number: 11062C07A	Sample number(s): 6219437-6219439							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	100	75-135	9	30
Batch number: 110610030A	Sample number(s): 6219437-6219439							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	108	95	52-126	12	20

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: P110623AA	Sample number(s): 6219437-6219439 UNSPK: 6219437								
Benzene	97	103	80-126	6	30				
Ethylbenzene	98	104	71-134	7	30				
Methyl Tertiary Butyl Ether	81	79	72-126	1	30				
Toluene	100	106	80-125	5	30				
Xylene (Total)	96	102	79-125	6	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water
Batch number: P110623AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6219437	97	98	102	94
6219438	97	98	103	94
6219439	96	99	102	95
Blank	96	97	102	94

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

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 03/14/11 at 11:04 AM

Group Number: 1235352

Surrogate Quality Control

LCS	99	101	101	97
MS	96	100	103	98
MSD	96	99	103	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11062C07A

	Trifluorotoluene-F
6219437	77
6219438	80
6219439	173*
Blank	73
LCS	86
LCSD	84
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 110610030A

	Orthoterphenyl
6219437	93
6219438	96
6219439	108
Blank	92
LCS	109
LCSD	97
Limits:	59-131

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

Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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