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

September 16, 2009
(date)

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

Re: Chevron Facility #_9-0517_____

Address: 3900 Piedmont Avenue, Oakland, California_____

I have reviewed the attached report titled *Second Semi-Annual 2009 Groundwater Monitoring Report*_____ and dated September 16, 2009.

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

2000 Opportunity Dr, Suite 110, Roseville, California 95678
Telephone: 916-751-4100 Facsimile: 916-751-4199
www.CRAworld.com

September 16, 2009 Reference No. 611995

Mr. Mark Detterman, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Second Semi-Annual 2009 Groundwater Monitoring Report
Former Chevron Service Station No. 9-0517
3900 Piedmont Avenue
Oakland, California
LOP Case #RO0000138

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) to Alameda County Environmental Health (ACEH) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated August 27, 2009) presents the results of the monitoring and sampling of wells MW-3 and MW-4 during third quarter 2009. These wells are monitored and sampled on a semi-annual basis during the first and third quarters; wells MW-1 and MW-2 were gauged but sampling of these wells was recently discontinued. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the second semi-annual 2009 analytical results along with a rose diagram. The monitoring results during 2009 are summarized below.

During 2009, petroleum hydrocarbon concentrations in the site wells were similar to or less than those observed during 2008. Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) were not detected in wells MW-1 and MW-2 during first quarter 2009, and generally have not been detected in these wells since the start of monitoring in 1998. Thus, sampling of these wells was discontinued with ACEH concurrence. Relatively low concentrations of TPHg (810 micrograms per liter [µg/L] and 900 µg/L) were detected in well MW-3 during 2009; benzene was only detected during the third quarter event (4 µg/L); low concentrations of toluene, ethylbenzene, and xylenes (up to 3 µg/L) were also detected. Although fluctuations occur, overall decreasing trends are evident in well MW-3. MTBE was not detected in well MW-3 during 2009, and has not been detected since 2003. Elevated concentrations of TPHg (2,900 µg/L and 6,900 µg/L) and benzene (84 µg/L and 120 µg/L) were detected in well MW-4 during 2009; low concentrations of MTBE (2 µg/L), toluene (up to 34 µg/L), ethylbenzene (up to 11 µg/L), and xylenes (up to 36 µg/L) were also detected. The TPHg and BTEX concentrations in well MW-4

CONESTOGA-ROVERS
& ASSOCIATES

September 16, 2009 Reference No. 611995

have remained relatively stable over the past several years; however, the MTBE concentrations have decreased since the start of monitoring and only low concentrations remain.

Based on the analytical results, impacted groundwater remains in the area of wells MW-3 and MW-4 downgradient of the former underground storage tanks (USTs) and dispenser islands. CRA recommends continued monitoring and sampling to further evaluate groundwater quality and concentration trends. Additional investigation is planned to further evaluate the downgradient extent of impacted groundwater as well as onsite soil vapor quality. CRA submitted a *Work Plan for Additional Site Investigation* dated July 16, 2009, and is awaiting concurrence from ACEH to begin the work.

Please contact Mr. James Kiernan at (916) 751-4102 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Christopher J. Benedict

James P. Kiernan, P.E. #C68498

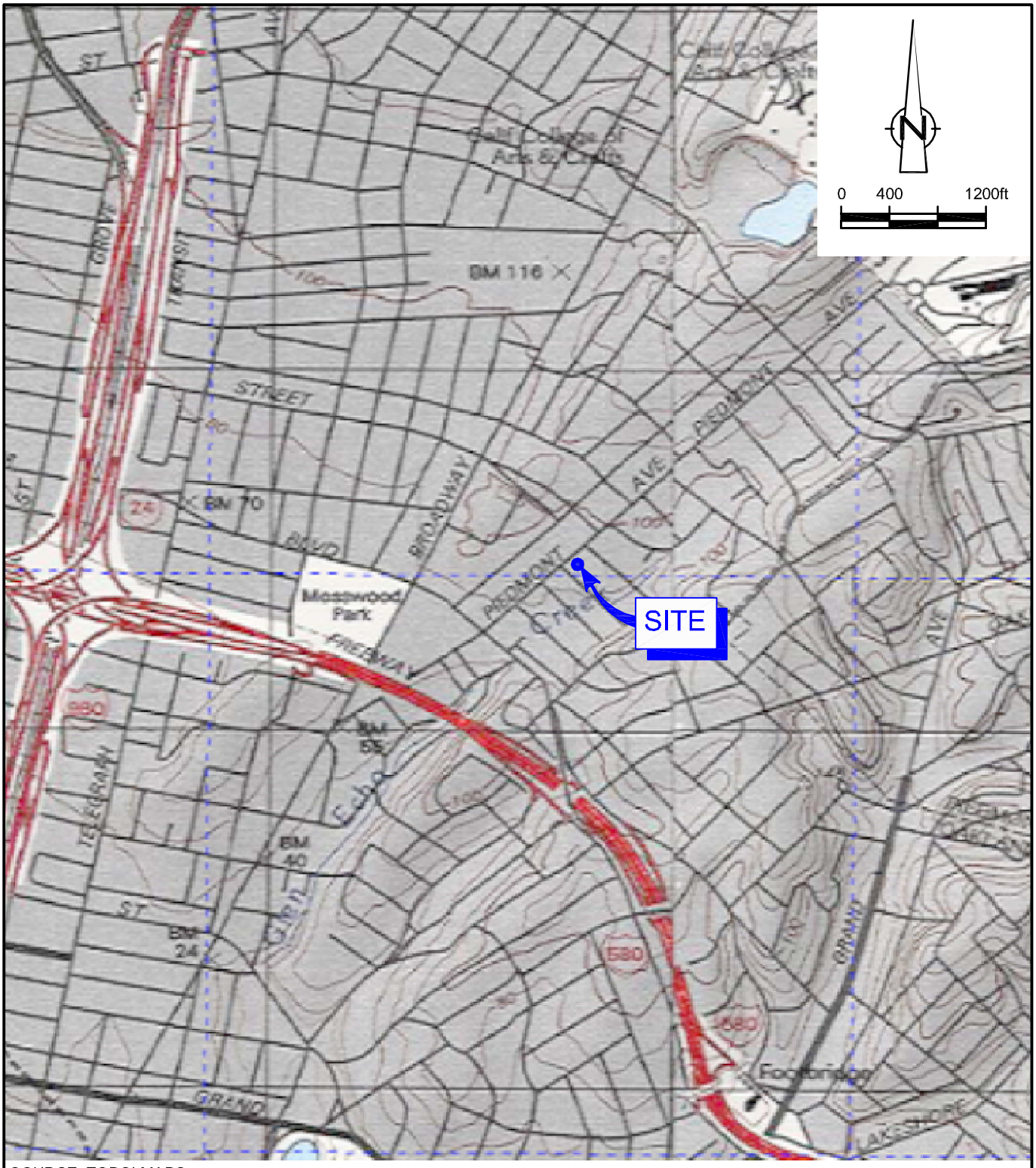
REGISTERED PROFESSIONAL ENGINEER
JAMES P. KIERNAN
No. 68498
Exp. 9/30/11
CIVIL
STATE OF CALIFORNIA

CB/kw/5
Encl.

Figure 1	Vicinity Map
Figure 2	Concentration Map – August 7, 2009
Attachment A	Second Semi-Annual 2009 Groundwater Monitoring and Sampling Report

cc: Ms. Stacie Frerichs, Chevron Environmental Management Company
Mr. Neil B. and Mrs. Diane C. Goodhue

FIGURES



SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
FORMER CHEVRON SERVICE 9-0517
3900 PIEDMONT AVENUE
Oakland, California

611995-199(005)GN-WA002 SEP 15/2009

BUILDING

BUILDING

BUILDING

BUILDING

BUILDING

BUILDING

BUILDING

BUILDING

BUILDING

BUILDING

BUILDING

PARKING

PARKING

WATER BOX

PIEDMONT AVENUE

FORMER WASTE OIL TANKS

FORMER WASTE OIL SUMP

FNBO-1

FNBO-2

MW-1
(NS)

FNBO-8

2ND GENERATION DISPENSER ISLANDS

1ST GENERATION DISPENSER ISLANDS

FNBO-7

MW-4
(4,900)
(120)
(2)

FNBO-4

FNBO-3

MW-2
(NS)

FNBO-6

FNBO-5

OLD DRAINAGE PIPE

2ND GENERATION USTs

1ST GENERATION USTs

MW-3
(900)
(4.0)
(<0.5)

SB-1B

SB-1A SB-1C

MONTELL STREET

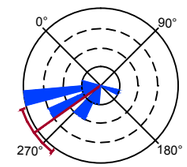
PARCEL BOUNDARY

SB-2

0 10 30ft

LEGEND

SB-2	SOIL BORING LOCATION
SB-1A	ATTEMPTED SOIL BORING LOCATION
MW-4	MONITORING WELL LOCATION
E	ELECTRICAL LINE
SAN	SANITARY SEWER LINE
W	WATER LINE
G	GAS LINE
	SBC COMMUNICATIONS LINE
	STORM DRAIN
	PROPOSED BORING LOCATION
	PROPOSED SOIL VAPOR WELL LOCATION
(6,100)	TPHg CONCENTRATION (ug/L)
(180)	BENZENE CONCENTRATION (ug/L)
(31)	MTBE CONCENTRATION (ug/L)
(NS)	NOT SAMPLED
<	NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMITS



HISTORICAL GROUNDWATER FLOW DIRECTION

figure 2

CONCENTRATION MAP - AUGUST 7, 2009
FORMER CHEVRON SERVICE STATION 9-0517
3900 PIEDMONT AVENUE
Oakland, California

CRA

ATTACHMENT A

SECOND SEMI-ANNUAL 2009 GROUNDWATER MONITORING AND SAMPLING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

September 8, 2009
G-R #386420

TO: Mr. James Kiernan
Conestoga-Rovers & Associates
2000 Opportunity Drive, Suite 110
Roseville, California 95678

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

RE: Former Chevron Service Station
#9-0517 (MTI)
3900 Piedmont Avenue
Oakland, California
RO 0000138

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	August 27, 2009	Groundwater Monitoring and Sampling Report **Second Semi-Annual Event of August 7, 2009**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following:**

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

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***September 22, 2009,*** at which time this final report will be distributed to the following:

cc: Mr. Mark Detterman, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
(No Hard Copy-UPLOAD TO ALAMEDA CO.)
Mr. Neil B. Goodhue and Mrs. Diane C. Goodhue, 300 Hillside Avenue, Piedmont, CA 94611

Enclosures

Chevron

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

September 8, 2009
(date)

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

Re: Chevron Facility # 9-0517

Address: 3900 Piedmont Avenue, Oakland, California

I have reviewed the attached routine groundwater monitoring report dated September 8, 2009.

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 Gettler-Ryan, Inc., 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

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-0517 Job # 386420

Site Address: 3900 Piedmont Avenue Event Date: 8-7-09

City: Oakland, CA Sampler: Joe

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-1		M	O.K	O.K	O.K	O.K	O.K	N	N	8" Boart-Longy./3	NO
MW-2		M	(1) of 3 broken inside flange				TOC extends too far			"	
MW-3		M	O.K	O.K			O.K			"	
MW-4		O.K	O.K	O.K			O.K			6" Morrison /2	

Comments

GETTLER-RYAN INC.

August 27, 2009
G-R Job #386420

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

RE: Second Semi-Annual Event of August 7, 2009
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-0517
3900 Piedmont 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.

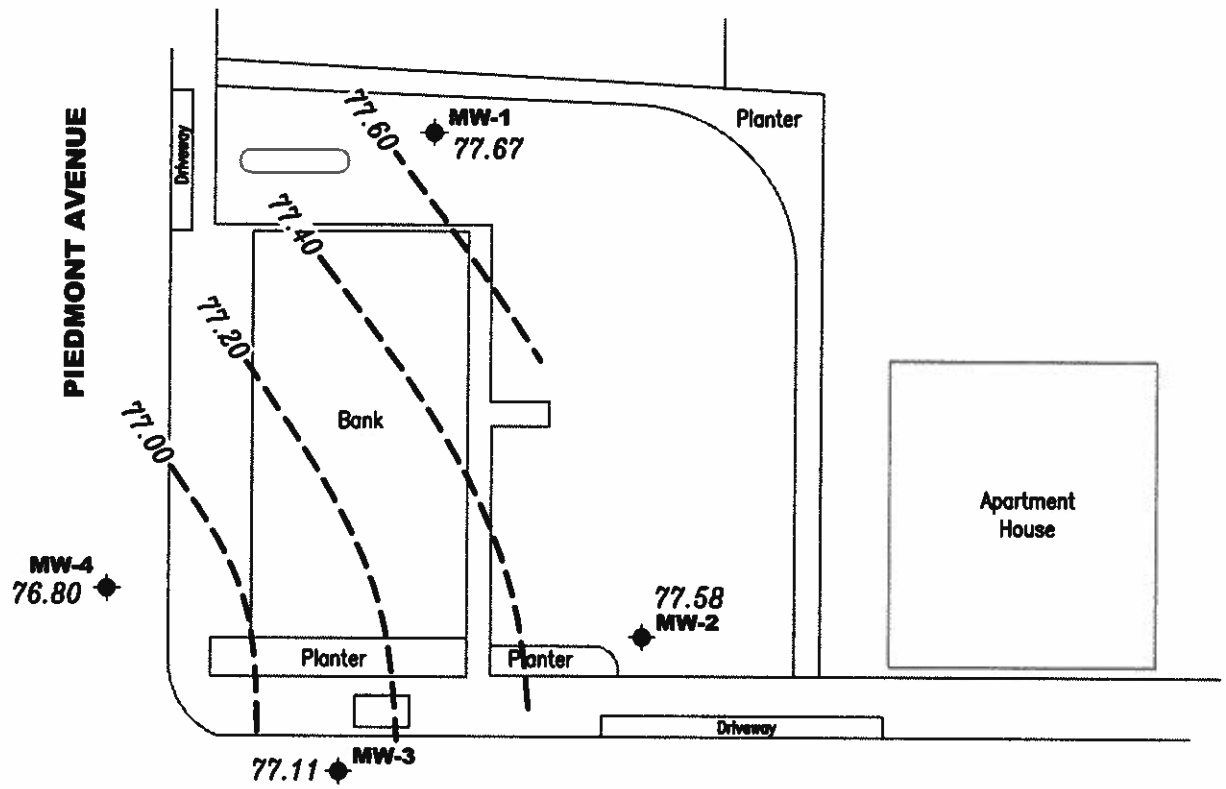
Sincerely,

Deanna L. Harding
Project Coordinator

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

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

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



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level
- --99.99-- — Groundwater elevation contour, dashed where inferred

Approximate groundwater flow direction at a gradient of 0.01 Ft./Ft.

N

0 30

Scale in Feet

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
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386420		August 7, 2009	

FILE NAME: P:\Enviro\Chevron\9-0517\Q09-9-0517.dwg | Layout Tab: Pot3

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1									
08/03/98	87.89	75.46	12.43	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	87.89	78.84	9.05	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	87.89	81.39	6.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	87.89	80.76	7.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	87.89	78.74	9.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	87.89	78.35	9.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	87.89	81.99	5.90	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00[3]	87.89	80.84	7.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	87.89	79.49	8.40	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	87.89	79.24	8.65	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50
02/27/01	87.89	82.06	5.83	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	87.89	80.18	7.71	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	87.89	DRY	--	--	--	--	--	--	--
02/25/02	87.89	81.18	6.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	87.89	79.00	8.89	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	87.89	80.53	7.36	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03[5]	87.89	78.42	9.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04[5]	87.89	81.59	6.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04[5]	87.89	77.77	10.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05[5]	87.89	81.10	6.79	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05[5]	87.89	79.00	8.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06[5]	87.89	81.24	6.65	<50	1	<0.5	<0.5	<0.5	<0.5
08/02/06[5]	87.89	80.16	7.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07[5]	87.89	80.12	7.77	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07[5]	87.89	78.30	9.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08[5]	87.89	80.48	7.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08[5]	87.89	78.11	9.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09[5]	87.89	82.28	5.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	**87.89**	**77.67**	**10.22**	--	--	--	--	--	--
MW-2									
08/03/98	86.09	74.75	11.34	<50	<0.5	<0.5	<0.5	<0.5	3.4
11/23/98	86.09	79.19	6.90	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	86.09	80.86	5.23	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.09	79.97	6.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-2 (cont)									
08/23/99	86.09	79.68	6.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	86.09	78.80	7.29	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	86.09	81.60	4.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	86.09	80.19	5.90	4,000[3]	240	26	100	76	<100
07/31/00	86.09	79.51	6.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	86.09	79.86	6.23	<50.0	<0.500	2.92	<0.500	1.88	4.89
02/27/01	86.09	81.49	4.60	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	86.09	79.79	6.30	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	86.09	78.81	7.28	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/25/02	86.09	80.48	5.61	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	86.09	78.99	7.10	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	86.09	78.64	7.45	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03[5]	86.09	78.44	7.65	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04[5]	86.09	81.24	4.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04[5]	86.09	77.86	8.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05[5]	86.09	80.16	5.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05[5]	86.09	78.50	7.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06[5]	86.09	80.36	5.73	<50	0.6	<0.5	<0.5	<0.5	<0.5
08/02/06[5]	86.09	79.14	6.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07[5]	86.09	79.80	6.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07[5]	86.09	78.69	7.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08[5]	86.09	79.62	6.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08[5]	86.09	79.01	7.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09[5]	86.09	79.59	6.50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	86.09	77.58	8.51	–	–	–	–	–	–
MW-3									
08/03/98	86.28	74.20	12.08	4000	160	<5.0	<5.0	73	180
11/23/98	86.28	78.59	7.69	4000	67.7	7.56	17.1	24.5	41.2
02/08/99	86.28	80.01	6.27	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.28	79.32	6.96	1800	53.6	8.96	33	18.6	21.4
08/23/99	86.28	78.36	7.92	3970	155	24	88.8	39.8	185
11/03/99	86.28	78.36	7.92	3320	108	19.9	98.4	44.8	<25
02/15/00	86.28	80.54	5.74	779	26.7	3.82	15.4	4.24	<12.5
05/12/00	86.28	79.52	6.76	12,000[3]	3,100	120	980	1,400	820

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-3 (cont)									
07/31/00	86.28	78.98	7.30	1,200[3]	32	<5.0	11	7.3	39
10/30/00	86.28	79.26	7.02	3,300[4]	119	<5.00	40.0	<15.0	<25.0
02/27/01	86.28	80.39	5.89	432[3]	15.5	1.53	14.9	1.06	15.7
05/15/01	86.28	79.21	7.07	3,220[3]	96.4	12.6	11.5	11.6	128
08/23/01	86.28	78.23	8.05	2,300	48	<10	<10	<10	100
02/25/02	86.28	79.55	6.73	3,100	27	2.1	4.8	6.6	<2.5
08/05/02	86.28	78.33	7.95	4,100	87	21	90	47	21
02/11/03	86.28	79.23	7.05	3,700	21	2.3	4.4	9.0	<20
08/09/03[5]	86.28	78.05	8.23	1,600	12	1	2	4	0.7
02/25/04[5]	86.28	80.43	5.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04[5]	86.28	77.23	9.05	3,000	21	3	3	9	<0.5
02/11/05[5]	86.28	79.26	7.02	540	15	1	<0.5	0.8	<0.5
08/15/05[5]	86.28	77.87	8.41	2,600	11	1	1	2	<0.5
02/10/06[5]	86.28	79.35	6.93	970	20	2	<0.5	3	<0.5
08/02/06[5]	86.28	78.28	8.00	1,000	16	1	<0.5	3	<0.5
02/09/07[5]	86.28	78.95	7.33	590	3	<0.5	<0.5	0.5	<0.5
08/23/07[5]	86.28	77.45	8.83	2,700	18	4	2	8	<0.5
02/18/08[5]	86.28	79.01	7.27	1,300	8	1	0.6	1	<0.5
08/12/08[5]	86.28	76.70	9.58	2,000	21	3	1	4	<0.5
02/19/09[5]	86.28	79.52	6.76	810	<0.5	<0.5	<0.5	1	<0.5
08/07/09[5]	**86.28**	**77.11**	**9.17**	**900**	**4**	**0.9**	**3**	**3**	**<0.5**
MW-4									
08/03/98	87.22	74.30	12.92	1900	110	12	<0.5	55	130
11/23/98	87.22	77.82	9.40	4080	136	17.8	37.2	30.1	51.8
02/08/99[1]	87.22	79.40	7.82	2900	150	16	<5.0	15	230/30.7[2]
05/07/99	87.22	79.80	7.42	6050	161	<25	39.8	36.9	<250/30.2[2]
08/23/99	87.22	77.83	9.39	3930	203	37.6	58.6	42.2	255
11/03/99	87.22	77.41	9.81	5350	324	44.7	91.5	56.1	<50
02/15/00	87.22	79.50	7.72	4080	161	27.7	31.1	39.1	73.9
05/12/00	87.22	79.31	7.91	3,600[3]	170	27	49	64	170
07/31/00	87.22	78.57	8.65	2,900[3]	160	20	15	56	170
10/30/00	87.22	78.14	9.08	5,630[4]	301	17.8	11.8	51.5	<25.0
02/27/01	87.22	79.92	7.30	2,140[3]	95.1	12.8	53.4	43.0	235
05/15/01	87.22	79.07	8.15	4,580[3]	200	44.1	46.3	51.7	172

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-4 (cont)									
08/23/01	87.22	77.89	9.33	2,700	250	44	21	72	130
02/25/02	87.22	79.42	7.80	4,100	100	18	27	39	<10
08/05/02	87.22	80.12	7.10	4,100	130	18	50	20	<10
02/11/03	87.22	79.10	8.12	4,100	100	23	20	51	<50
08/09/03[5]	87.22	77.67	9.55	3,700	110	24	10	45	8
02/25/04[5]	87.22	79.16	8.06	5,400	94	28	34	49	5
08/23/04[5]	87.22	77.03	10.19	5,100	100	26	7	43	5
02/11/05[5]	87.22	79.25	7.97	3,900	58	16	25	16	2
08/15/05[5]	87.22	78.40	8.82	2,400	76	16	11	26	3
02/10/06[5]	87.22	79.41	7.81	1,600	68	16	8	27	4
08/10/06[5]	87.22	78.64	8.58	2,500	100	19	5	30	3
02/09/07[5]	87.22	78.51	8.71	6,200	200	39	16	52	3
08/23/07[5]	87.22	76.84	10.38	5,800	190	48	20	61	3
02/18/08[5]	87.22	79.11	8.11	4,900	110	24	11	32	2
08/12/08[5]	87.22	76.64	10.58	6,100	180	31	9	52	3
02/19/09[5]	87.22	79.50	7.72	2,900	84	20	5	24	2
08/07/09[5]	**87.22**	**76.80**	**10.42**	**4,900**	**120**	**34**	**11**	**36**	**2**
TRIP BLANK									
08/03/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50
02/27/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA									
02/25/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/02/06[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09[5]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09[5]	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-0517

3900 Piedmont Avenue

Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 12, 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 = Total Petroleum Hydrocarbons
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.

1 Chromatogram pattern indicates gas and an unidentified hydrocarbon.

2 Confirmation run.

3 Laboratory report indicates gasoline C6-C12.

4 Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

5 BTEX and MTBE by EPA Method 8260.

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, 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, suction, Grundfos), or disposable 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 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 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 #9-0517 | Job Number: 386420
Site Address: 3900 Piedmont Avenue | Event Date: 8-7-09 (inclusive)
City: Oakland, CA | Sampler: Joe

Well ID: MW-1 | Date Monitored: 8-7-09
Well Diameter: 2 in.
Total Depth: 16.76 ft.
Depth to Water: 10.22 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

☐ Check if water column is less then 0.50 ft.

_____ xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N _____
Approx. Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: M. only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 Job Number: 386420
Site Address: 3900 Piedmont Avenue Event Date: 8-7-09 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-2 Date Monitored: 8-7-09
Well Diameter 2 in.
Total Depth 16.61 ft.
Depth to Water 8.51 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

☐ Check if water column is less then 0.50 ft.

_____ xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N _____
Approx. Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: M. only

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 | Job Number: 386420
Site Address: 3900 Piedmont Avenue | Event Date: 8-7-09 (inclusive)
City: Oakland, CA | Sampler: Joe

Well ID: MW-3 | Date Monitored: 8-7-09
Well Diameter: 2 in.
Total Depth: 17.71 ft.
Depth to Water: 9.17 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

☐ Check if water column is less then 0.50 ft.

8.54 xVF 0.17 = 1.45 x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.87

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): 0738 | Weather Conditions: Foggy
Sample Time/Date: 0812 / 8-7-09 | Water Color: clear Odor (Y) / N Strong
Approx. Flow Rate: ~ gpm. | Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0746	1.5	6.72	593	19.5		
0752	3	6.87	610	19.3		
0802	4.5	6.81	617	19.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 Job Number: 386420
Site Address: 3900 Piedmont Avenue Event Date: 8-7-09 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-4 Date Monitored: 8-7-09
Well Diameter 2 in.
Total Depth 16.30 ft.
Depth to Water 10.42 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

☐ Check if water column is less then 0.50 ft.

5.88 xVF 0.17 = 1.00 x3 case volume = Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.59

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): 0830 Weather Conditions: Foggy
Sample Time/Date: 0900 / 8-7-09 Water Color: Clear Odor: Y / N
Approx. Flow Rate: ~ gpm. Sediment Description:
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.93

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0836	1	6.74	554	19.3		
~~0841~~	2	~~6.83~~	562	19.0		
~~0848~~	3	~~6.87~~	563	19.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

080709-02 Acct. #: 12099 For Lancaster Laboratories use only Sample # 5744826-28 Group #: 018754

C# 1156868

CRA MTI Project #: 61H-1995

Facility #: SS#9-0517 G-R#386420 Global ID#T0600102248

Site Address: 3900 PIEDMONT AVENUE, OAKLAND, CA

Chevron PM: MTI Lead Consultant: CRAKJ

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 ASEMIAN

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil / Air	Potable / NPDES	Total Number of Containers	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
QA	—	—	✓			✓			2	✓	✓					
MW-3	8-7-09	0812	↓			↓			6	✓	✓					
MW-4	11	0950	↓			↓			6	✓	✓					

Preservation Codes: H, 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)

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

Relinquished by:	Date	Time	Received by:	Date	Time
	8-7-09	0945		8/7/09	0945
Relinquished by:	8/7/09	1600	Fedex		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	8/8/09	0850
Temperature Upon Receipt 1.1-3.1 C°			Custody Seals Intact? Yes No		

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

916-677-3407

Prepared by:

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

August 19, 2009

SAMPLE GROUP

The sample group for this submittal is 1156868. Samples arrived at the laboratory on Saturday, August 08, 2009. The PO# for this group is 90517 and the release number is MTI.

Client Description	Lancaster Labs Number
QA-T-090807 NA Water	5744826
MW-3-W-090807 Grab Water	5744827
MW-4-W-090807 Grab Water	5744828

METHODOLOGY

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: Cheryl Hansen

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

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

Respectfully Submitted,

Susan M Goshert

Susan M. Goshert
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 5744826

Group No. 1156868
CA

QA-T-090807 NA Water
Facility# 90517 Job# 386420 MTI# 61H-1995 GRD
3900 Piedmont-Oakland T0600102248 QA

Collected: 08/07/2009

Account Number: 12099

Submitted: 08/08/2009 10:50
Reported: 08/19/2009 at 18:55
Discard: 09/19/2009

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

PAOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
SW-846 8015B	**GC Volatiles**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P092233AA	08/11/2009 23:44	Florida A Cimino	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	P092233AA	08/11/2009 23:44	Florida A Cimino	1
01146	GC VOA Water Prep	SW-846 5030B	1	09224A07A	08/13/2009 14:07	Fanella S Zamcho	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09224A07A	08/13/2009 14:07	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5744827

Group No. 1156868
CA

MW-3-W-090807 Grab Water
Facility# 90517 Job# 386420 MTI# 61H-1995 GRD
3900 Piedmont-Oakland T0600102248 MW-3

Collected: 08/07/2009 08:12 by JA

Account Number: 12099

Submitted: 08/08/2009 10:50
Reported: 08/19/2009 at 18:55
Discard: 09/19/2009

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

PAO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06054	Benzene	71-43-2	4	0.5	1
06054	Ethylbenzene	100-41-4	3	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	0.9	0.5	1
06054	Xylene (Total)	1330-20-7	3	0.5	1
SW-846 8015B	**GC Volatiles**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	900	50	1

General Sample Comments

State of California Lab Certification No. 2501

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P092233AA	08/12/2009 00:07	Florida A Cimino	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	P092233AA	08/12/2009 00:07	Florida A Cimino	1
01146	GC VOA Water Prep	SW-846 5030B	1	09224A07B	08/17/2009 15:28	Carrie E Miller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09224A07B	08/17/2009 15:28	Carrie E Miller	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5744828

Group No. 1156868
CA

MW-4-W-090807 Grab Water
Facility# 90517 Job# 386420 MTI# 61H-1995 GRD
3900 Piedmont-Oakland T0600102248 MW-4

Collected: 08/07/2009 09:00 by JA

Account Number: 12099

Submitted: 08/08/2009 10:50
Reported: 08/19/2009 at 18:55
Discard: 09/19/2009

Chevron c/o CRA
Suite 110
2000 Opportunity Drive
Roseville CA 95678

PAO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06054	Benzene	71-43-2	120	0.5	1
06054	Ethylbenzene	100-41-4	11	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
06054	Toluene	108-88-3	34	0.5	1
06054	Xylene (Total)	1330-20-7	36	0.5	1
SW-846 8015B	**GC Volatiles**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,900	250	5

General Sample Comments

State of California Lab Certification No. 2501

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P092233AA	08/12/2009 00:55	Florida A Cimino	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	P092233AA	08/12/2009 00:55	Florida A Cimino	1
01146	GC VOA Water Prep	SW-846 5030B	1	09224A07B	08/17/2009 13:39	Carrie E Miller	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09224A07B	08/17/2009 13:39	Carrie E Miller	5

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 08/19/09 at 06:55 PM

Group Number: 1156868

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: P092233AA	Sample number(s): 5744826-5744828							
Benzene	N.D.	0.5	ug/l	96	96	80-116	1	30
Ethylbenzene	N.D.	0.5	ug/l	95	96	80-113	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95	95	78-117	0	30
Toluene	N.D.	0.5	ug/l	97	98	80-115	0	30
Xylene (Total)	N.D.	0.5	ug/l	96	97	81-114	1	30
Batch number: 09224A07A	Sample number(s): 5744826							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	118	75-135	0	30
Batch number: 09224A07B	Sample number(s): 5744827-5744828							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	118	75-135	0	30

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: P092233AA	Sample number(s): 5744826-5744828 UNSPK: 5744827								
Benzene	99		80-126						
Ethylbenzene	100		77-125						
Methyl Tertiary Butyl Ether	94		72-126						
Toluene	100		80-125						
Xylene (Total)	99		79-125						
Batch number: 09224A07A	Sample number(s): 5744826 UNSPK: P744965								
TPH-GRO N. CA water C6-C12	118		63-154						
Batch number: 09224A07B	Sample number(s): 5744827-5744828 UNSPK: P744965								
TPH-GRO N. CA water C6-C12	118		63-154						

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: BTEX+MTBE by 8260B
Batch number: P092233AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- 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: 08/19/09 at 06:55 PM

Group Number: 1156868

Surrogate Quality Control

5744826	86	91	87	82
5744827	83	89	87	85
5744828	84	91	86	89
Blank	85	93	88	83
LCS	83	94	87	83
LCSD	84	94	87	85
MS	85	96	87	86
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09224A07A
Trifluorotoluene-F

5744826	99
Blank	98
LCS	110
LCSD	111
MS	108
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09224A07B
Trifluorotoluene-F

5744827	121
5744828	117
Blank	98
LCS	110
LCSD	111
MS	108
Limits:	63-135

*- 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:

N.D.	none detected	**BMQL**	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**flb >5 um/ml**	fibers greater than 5 microns in length per ml

< 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

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.

U.S. EPA 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 quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
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 amount 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 for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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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