



RECEIVED

9:04 am, Dec 06, 2010

Alameda County
Environmental Health

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

December 1, 2010

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

Re: Chevron Facility # 9-2029

Address: 890 West MacArthur Boulevard, Oakland, California

I have reviewed the attached report titled Second Semi-Annual 2010 Groundwater Monitoring Report and dated December 1, 2010.

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,

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
www.CRAworld.com

December 1, 2010

Reference No. 611974

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

Re: Second Semi-Annual 2010 Groundwater Monitoring Report
Former Chevron Service Station 9-2029
890 West MacArthur Boulevard
Oakland, California
LOP Case #RO0002438

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 November 19, 2010) presents the results of the sampling of wells MW-5 through MW-8 during fourth quarter 2010. Wells MW-5 through MW-8 are sampled on a semi-annual basis during the second and fourth quarters. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the fourth quarter 2010 analytical results along with a rose diagram. The monitoring results during 2010 are discussed below.

During 2010, elevated concentrations of total petroleum hydrocarbons as gasoline (TPHg) (ranging from 3,500 to 13,000 micrograms per liter [$\mu\text{g}/\text{L}$]) were detected in wells MW-5 and MW-6 just downgradient of the site. Low concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) (up to 13 $\mu\text{g}/\text{L}$), and methyl tertiary butyl ether (MTBE) (0.9 $\mu\text{g}/\text{L}$) were also detected in MW-5. Higher concentrations of benzene (110 $\mu\text{g}/\text{L}$ and 1,100 $\mu\text{g}/\text{L}$) and MTBE (9 $\mu\text{g}/\text{L}$ and 160 $\mu\text{g}/\text{L}$) were detected in MW-6; along with higher concentrations of toluene (up to 8 $\mu\text{g}/\text{L}$), ethylbenzene (up to 670 $\mu\text{g}/\text{L}$) and xylenes (up to 58 $\mu\text{g}/\text{L}$). The detected concentrations were generally within the range of historical fluctuations in these wells. Elevated concentrations of TPHg (4,000 $\mu\text{g}/\text{L}$ and 5,700 $\mu\text{g}/\text{L}$) and benzene (190 $\mu\text{g}/\text{L}$ and 150 $\mu\text{g}/\text{L}$) were also detected in downgradient well MW-7 during 2010; low concentrations of toluene (0.7 $\mu\text{g}/\text{L}$ during the fourth quarter event), ethylbenzene (up to 270 $\mu\text{g}/\text{L}$), xylenes (up to 7 $\mu\text{g}/\text{L}$) and MTBE (up to 6 $\mu\text{g}/\text{L}$) were also detected. The detected concentrations were generally within the range of historical fluctuations in this well. TPHg, BTEX, and MTBE were not detected in well MW-8 during 2010 and generally have not been detected in this well since it was installed.

Equal
Employment Opportunity
Employer



Low concentrations of tertiary butyl alcohol (TBA) were detected in MW-6 (up to 98 µg/L) and MW-7 (up to 6 µg/L) during 2010; and low concentrations of tertiary amyl methyl ether (TAME) (3 µg/L during the fourth quarter event) were detected in MW-6. Other fuel oxygenates (except MTBE) were not detected. As TBA is a breakdown product of MTBE, the TBA detections may indicate natural biodegradation of MTBE in the subsurface.

Based on the analytical results, impacted groundwater is present downgradient of the site in the area of wells MW-5, MW-6, and MW-7. The concentrations detected in these wells during 2010 were generally within the range of historical fluctuations; however, concentrations of certain constituents, including MTBE, have decreased. CRA recommends continued monitoring to further evaluate groundwater quality and concentration trends.

Based on the monitoring results in furthest downgradient well MW-7, additional investigation to further evaluate the extent of impacted groundwater is planned. CRA previously submitted the August 25, 2009 *Work Plan for Additional Investigation* (work plan) that proposed the drilling of two additional borings downgradient of MW-7. After further review of the data and site conditions, alternative boring locations (Figure 2) were proposed in an e-mail to ACEH on February 25, 2010. As a response has not been received to date, and since at least 60 days has passed since submittal of the work plan, we intend to proceed with the work as proposed. The work will be performed in general accordance with these documents and we will keep ACEH apprised of the status.



**CONESTOGA-ROVERS
& ASSOCIATES**

December 1, 2010

3

Reference No. 611974

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

A handwritten signature in blue ink that reads 'Chris Benedict'.

Christopher J. Benedict

A handwritten signature in blue ink that reads 'James P. Kiernan'.

James P. Kiernan, P.E.



CB/jm/10

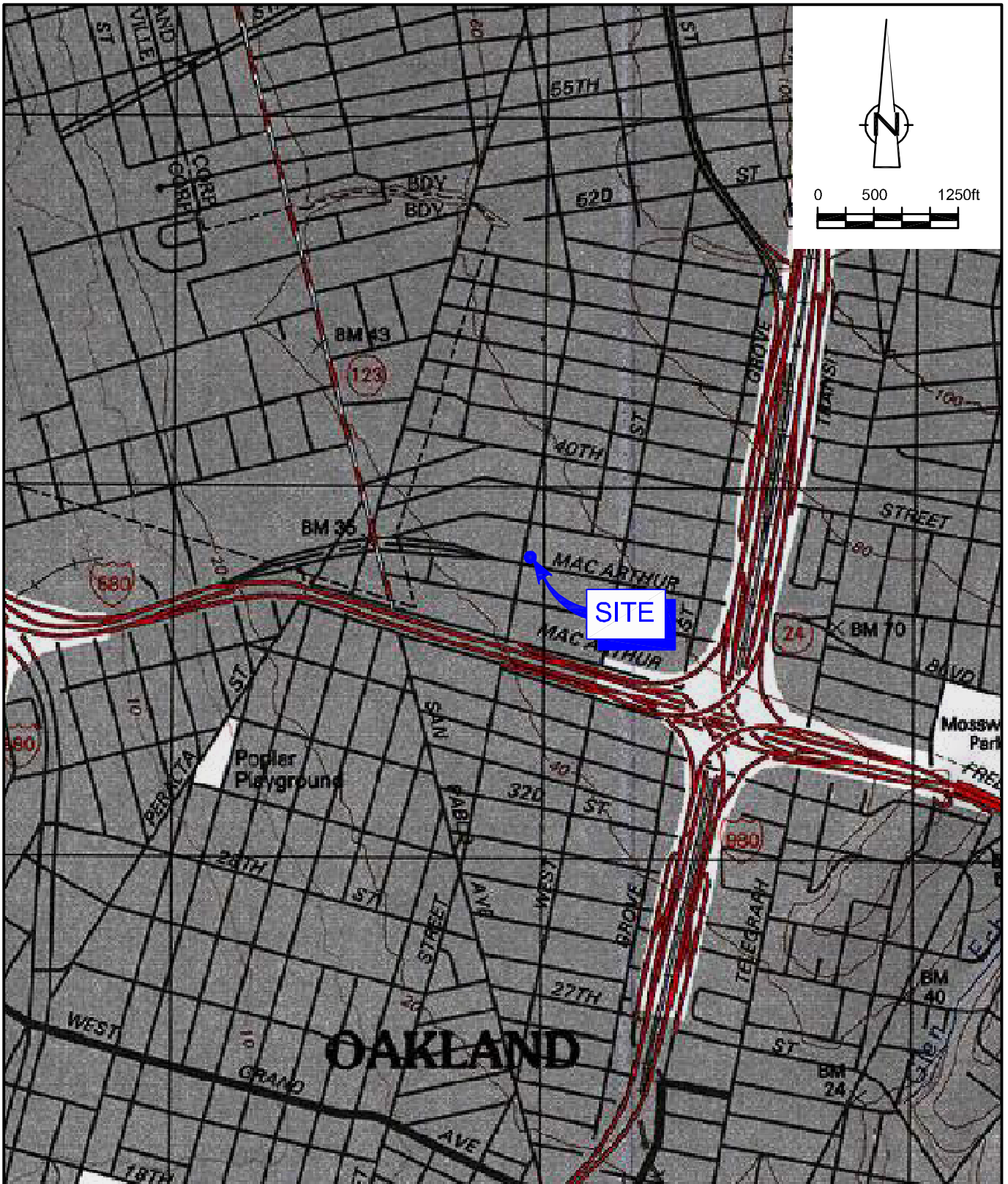
Encl.

Figure 1 Vicinity Map
Figure 2 Concentration Map - November 3, 2010

Attachment A Groundwater Monitoring and Sampling Report

cc: Ms. Stacie Frerichs, Chevron (*electronic copy*)
 Mr. Stephen O'Kane

FIGURES



SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
 CHEVRON SERVICE STATION 9-2029
 890 WEST MACARTHUR BOULEVARD
 Oakland, California



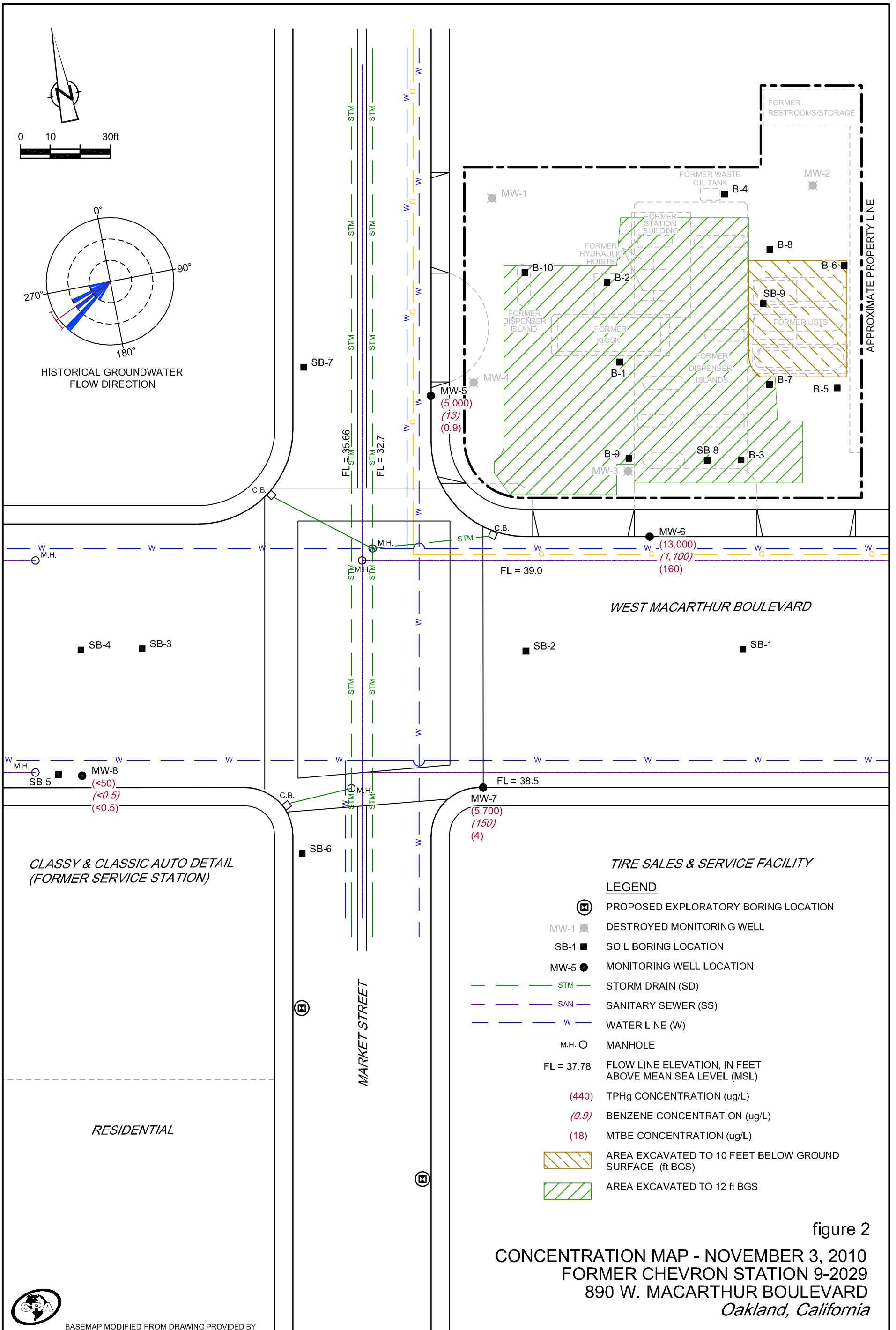


figure 2

CONCENTRATION MAP - NOVEMBER 3, 2010
 FORMER CHEVRON STATION 9-2029
 890 W. MACARTHUR BOULEVARD
 Oakland, California



BASEMAP MODIFIED FROM DRAWING PROVIDED BY

ATTACHMENT A
GROUNDWATER MONITORING AND SAMPLING REPORT



TRANSMITTAL

November 22, 2010

G-R #386911

TO: Mr. James Kiernan
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, CA 95670

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

RE: **Former Chevron Service Station
#9-2029 (MTI)
890 West MacArthur Blvd.
Oakland, California
RO 0002438**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	November 19, 2010	Groundwater Monitoring and Sampling Report Second Semi-Annual Event of November 3, 2010

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following (including PDF submittal of the entire report to GeoTracker):**

Ms. Stacie Hartung-Frerichs, Chevron Environmental Management Company, 6111 Bollinger Canyon Road, Room 3596, San Ramon, CA 94583 (**PDF ONLY**)

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **December 6, 2010** at which time the final report will be distributed to the following:

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-CRA UPLOAD TO ALAMEDA CO.**)

Enclosures

trans/9-2029-SHF



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

November 22, 2010
(date)

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

Re: Chevron Facility # 9-2029

Address: 890 West MacArthur Boulevard, Oakland, California

I have reviewed the attached routine groundwater monitoring report dated November 22, 2010.

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,

A handwritten signature in black ink that reads "Stacie H. Frerichs".

Stacie H. Frerichs
Project Manager

Enclosure: Report

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-2029
 Site Address: 890 West Macarthur Blvd.
 City: Oakland, CA

Job # 386911
 Event Date: 11-3-10
 Sampler: FT

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-5	OK						→			Morrison 6" / 2	
MW-6	OK						→				
MW-7	OK						→				
MW-8	OK						→				

Comments Installed new well lid on MW-8



November 19, 2010
G-R Job #386911

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

RE: Second Semi-Annual Event of November 3, 2010
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-2029
890 West MacArthur Boulevard
Oakland, California

Dear Ms. Frerichs:

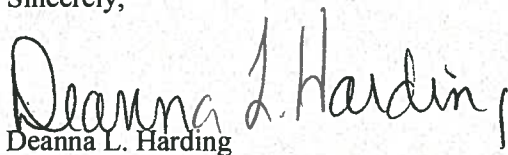
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

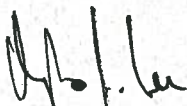
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

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.

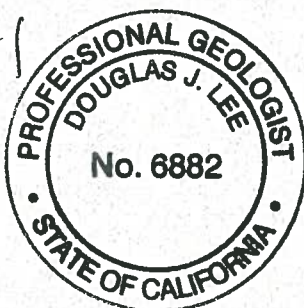
Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,


Deanna L. Harding
Project Coordinator



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

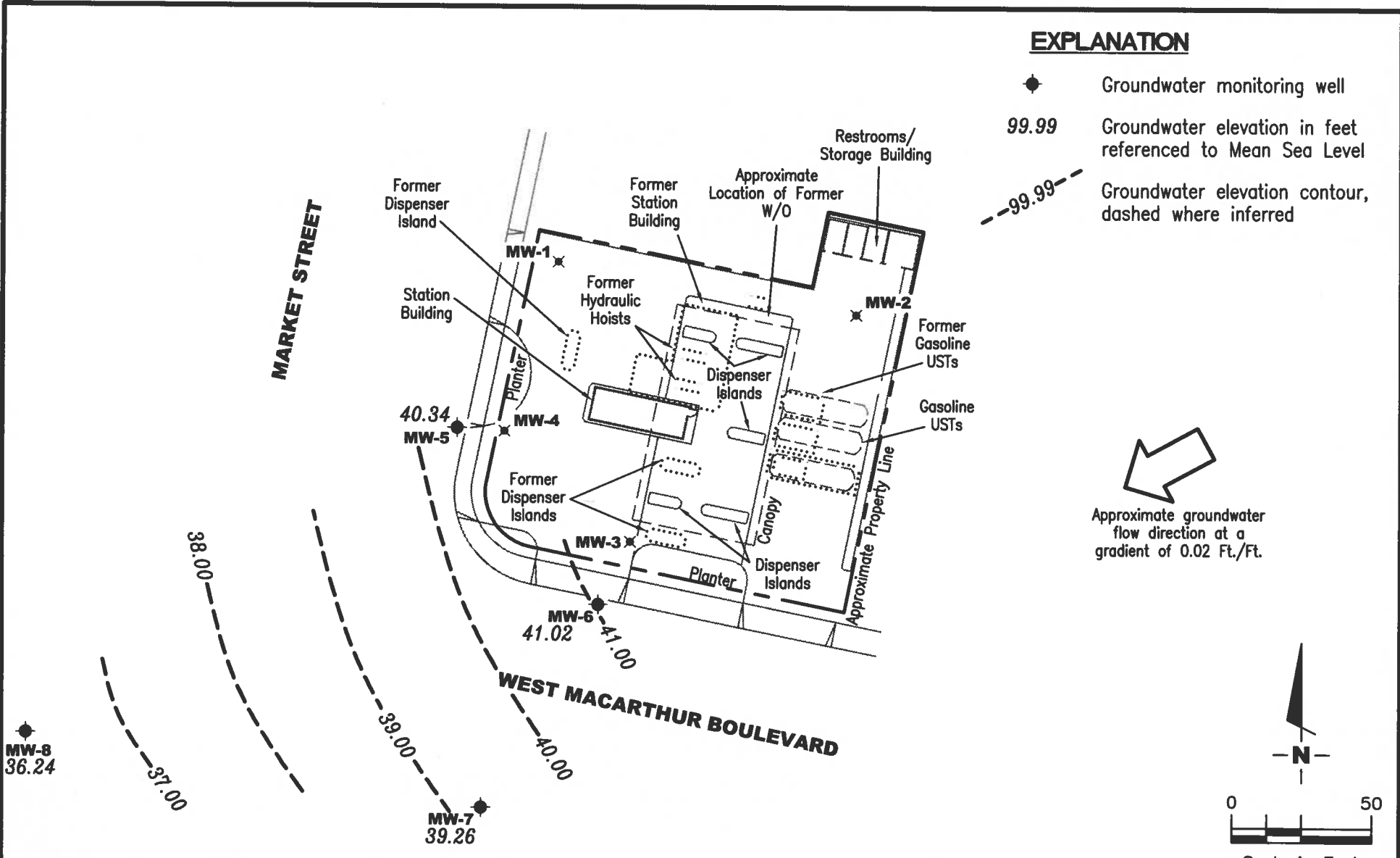
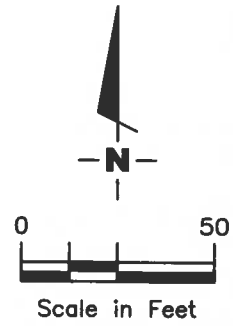


- Figure 1: Potentiometric Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

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 0.02 Ft./Ft.



Source: Figure modified from drawing provided by RRM eng. and Virgil Chavez Surveying, MONITORING WELL PLAT, DRAWING NO. 211902, Dated: 10/08.

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

POTENTIOMETRIC MAP
 Former Chevron Service Station #9-2029
 890 West MacArthur Boulevard
 Oakland, California

FIGURE
1

PROJECT NUMBER 386911	REVIEWED BY	DATE November 3, 2010	REVISED DATE
---------------------------------	-------------	--------------------------	--------------

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-5									
08/22/08 ¹	49.39	9.97	39.42	--	--	--	--	--	--
08/27/08 ³	49.39	10.03	39.36	54	0.5	0.8	<0.5	0.7	10
11/21/08 ³	49.39	8.42	40.97	6,000	93	6	37	6	8
02/13/09 ³	49.39	7.11	42.28	5,100	31	5	20	3	6
05/08/09 ³	49.39	7.21	42.18	3,600	18	4	14	2	2
08/07/09 ³	49.39	9.60	39.79	520	0.7	<0.5	<0.5	<0.5	2
11/05/09 ³	49.39	7.08	42.31	7,400	16	5	18	4	0.9
05/06/10 ³	49.39	6.08	43.31	3,500	4	2	3	0.9	0.9
11/03/10 ⁵	49.39	9.05	40.34	5,000	13	4	8	3	0.9
MW-6									
08/22/08 ¹	49.07	8.98	40.09	--	--	--	--	--	--
08/27/08 ³	49.07	8.98	40.09	6,000	990	4	350	530	440
11/21/08 ³	49.07	8.12	40.95	14,000	1,000	15	1,300	550	300
02/13/09 ³	49.07	5.84	43.23	9,700	630	4	510	36	180
05/08/09 ³	49.07	5.77	43.30	7,600	240	4	470	67	38
08/07/09 ³	49.07	8.49	40.58	14,000	1,500	12	1,400	180	330
11/05/09 ³	49.07	6.72	42.35	22,000	870	8	1,300	130	160
05/06/10 ³	49.07	4.89	44.18	5,200	110	2	160	23	9
11/03/10 ⁵	49.07	8.05	41.02	13,000	1,100	8	670	58	160
MW-7									
08/22/08 ¹	48.74	10.20	38.54	--	--	--	--	--	--
08/27/08 ³	48.74	10.19	38.55	<50	<0.5	0.6	<0.5	0.7	6
11/21/08 ³	48.74	9.51	39.23	1,100	80	<0.5	65	0.7	6
02/13/09 ³	48.74	7.95	40.79	630	30	<0.5	38	0.9	7
05/08/09 ³	48.74	8.04	40.70	1,200	83	<0.5	190	2	8
08/07/09 ³	48.74	9.88	38.86	8,900	240	0.7	770	5	5
11/05/09 ³	48.74	9.03	39.71	12,000	630	<1	1,300	420	5
05/06/10 ³	48.74	7.88	40.86	4,000	190	<0.5	270	7	6
11/03/10 ⁵	48.74	9.48	39.26	5,700	150	0.7	45	2	4

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-8									
08/22/08 ¹	47.61	12.41	35.20	--	--	--	--	--	--
08/27/08 ³	47.61	12.42	35.19	<50	<0.5	0.7	<0.5	0.6	<0.5
11/21/08 ³	47.61	11.42	36.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/13/09 ³	47.61	8.87	38.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/08/09 ³	47.61	10.79	36.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09 ³	47.61	12.33	35.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/05/09 ³	47.61	11.23	36.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/10 ³	47.61	10.28	37.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/03/10 ⁵	47.61	11.37	36.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1									
03/12/02 ¹	50.71	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
06/07/02	50.71	8.69	42.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
09/13/02	50.71	9.28	41.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
12/13/02	50.71	8.48	42.23	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
03/01/03	50.71	7.34	43.37	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ²
06/27/03 ³	50.71	9.29	41.42	<50	<0.5	0.6	<0.5	<0.5	<0.5
09/30/03 ³	50.71	10.17	40.54	<50	<0.5	0.6	<0.5	<0.5	<0.5
12/03/03 ³	50.71	7.82	42.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 ³	50.71	6.57	44.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 ³	50.71	9.78	40.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 ³	50.71	9.91	40.80	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04 ³	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 ³	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 ³	50.71	8.59	42.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 ³	50.71	9.38	41.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	50.71	8.44	42.27	--	--	--	--	--	--
03/20/06	50.71	3.05	47.66	--	--	--	--	--	--
06/01/06	50.71	6.77	43.94	--	--	--	--	--	--
09/11/06	50.71	9.18	41.53	--	--	--	--	--	--
DESTROYED									

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-2									
03/12/02 ¹	52.57	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3 ²
06/07/02	52.57	8.65	43.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5/2 ²
09/13/02	52.57	9.58	42.99	<50	<0.50	<0.50	<0.50	<1.5	<2.5/2 ²
12/13/02	52.57	8.50	44.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5/2 ²
03/01/03	52.57	7.00	45.57	<50	<0.50	<0.50	<0.50	<1.5	<2.5/0.5 ²
06/27/03 ³	52.57	9.59	42.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03 ³	52.57	10.64	41.93	<50	<0.5	<0.5	<0.5	<0.5	0.7
12/03/03 ³	52.57	7.54	45.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 ³	52.57	6.05	46.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 ³	52.57	10.15	42.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 ³	52.57	10.14	42.43	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04 ³	52.57	2.29	50.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 ³	52.57	2.44	50.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 ³	52.57	8.99	43.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 ³	52.57	10.17	42.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	52.57	8.99	43.58	--	--	--	--	--	--
03/20/06	52.57	2.70	49.87	--	--	--	--	--	--
06/01/06	51.57	6.51	45.06	--	--	--	--	--	--
09/11/06	51.57	10.06	41.51	--	--	--	--	--	--
DESTROYED									
MW-3									
03/12/02 ¹	50.31	6.50	43.81	12,000	600	8.5	1,100	370	700/650 ²
06/07/02	50.31	7.74	42.57	14,000	630	8.8	1,200	160	520/490 ²
09/13/02	50.31	9.73	40.58	3,000	270	3.2	200	11	600/640 ²
12/13/02	50.31	8.60	41.71	24,000	1,100	14	2,400	220	650/540 ²
03/01/03	50.31	6.75	43.56	16,000	500	9.0	1,200	130	460/330 ²
06/27/03 ³	50.31	9.25	41.06	9,500	390	6	450	30	470
09/30/03 ³	50.31	10.31	40.00	2,000	110	1	100	3	710
12/03/03 ³	50.31	8.18	42.13	19,000	970	8	2,100	85	420
03/10/04 ³	50.31	6.10	44.21	15,000	550	6	960	95	220
06/30/04 ³	50.31	9.80	40.51	3,200	150	1	100	3	660
09/30/04 ³	50.31	10.18	40.13	1,900	66	0.8	84	4	690
12/29/04 ³	50.31	4.58	45.73	16,000	470	7	820	47	170
03/23/05 ³	50.31	5.07	45.24	18,000	380	6	960	58	140
06/22/05 ³	50.31	8.12	42.19	16,000	700	6	950	62	300

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-3 (cont)									
09/02/05 ³	50.31	9.41	40.90	8,400	380	4	510	41	440
12/02/05 ³	50.31	7.97	42.34	16,000	490	6	1,200	32	170
03/20/06 ³	50.31	5.32	44.99	4,200	79	0.8	2	10	34
06/01/06 ³	50.31	7.07	43.24	5,400	67	1	26	3	28
09/11/06 ³	50.31	9.07	41.24	14,000	270	5	240	38	97
DESTROYED									
MW-4									
03/12/02 ¹	49.93	5.34	44.59	9,700	360	5.3	1,100	150	170/170 ²
06/07/02	49.93	8.52	41.41	7,300	170	2.7	280	21	200/120 ²
09/13/02	49.93	9.86	40.07	5,800	92	4.5	80	14	190/160 ²
12/13/02	49.93	9.42	40.51	10,000	250	2.2	330	19	170/200 ²
03/01/03	49.93	7.33	42.60	12,000	300	4.6	900	110	160/100 ²
06/27/03 ³	49.93	9.62	40.31	7,500	110	2	200	58	130
09/30/03 ³	49.93	11.13	38.80	3,600	18	<1	16	7	520
12/03/03 ³	49.93	7.80	42.13	16,000	1,000	6	720	52	73
03/10/04 ³	49.93	6.69	43.24	2,200	230	3	610	71	55
06/30/04 ³	49.93	10.33	39.60	7,700	59	<1	78	17	110
09/30/04 ³	49.93	10.75	39.18	4,800	100	1	33	10	400
12/29/04 ³	49.93	3.34	46.59	13,000	250	3	480	27	42
03/23/05 ³	49.93	4.24	45.69	12,000	130	2	280	16	24
06/22/05 ³	49.93	7.95	41.98	6,400	290	2	11	11	18
09/02/05 ³	49.93	9.46	40.47	3,700	180	1	13	7	18
12/02/05 ³	49.93	7.60	42.33	11,000	840	5	480	24	34
03/20/06 ³	49.93	4.50	45.43	790	14	<0.5	1	0.6	2
06/01/06 ³	49.93	7.30	42.63	5,100	48	0.8	42	4	2
09/11/06 ³	49.93	9.38	40.55	6,700	64	3	44	3	4
DESTROYED									
TRIP BLANK									
QA									
03/12/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)									
03/01/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/27/03 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/03/03 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 ³	--	--	--	<50	<0.5	<0.7	<0.8	<0.8	<0.5
12/29/04 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 ³	--	--	--	<50	<0.5	1 ⁴	<0.5	1 ⁴	<0.5
12/02/05 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/20/06 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/01/06 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/11/06 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/27/08 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/21/08 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/13/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/08/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/07/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
DISCONTINUED									

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
Oakland, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

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 were surveyed on October 1, 2008, by CRA. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

TOC elevations were surveyed on March 14, 2002, by Virgil Chavez Land Surveying. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

¹ Well development performed.

² MTBE by EPA Method 8260.

³ BTEX and MTBE by EPA Method 8260.

⁴ Analytical result confirmed.

⁵ BTEX by EPA Method 8260.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
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)
MW-5	08/27/08	--	2	10	<0.5	<0.5	<0.5	--	--
	11/21/08	--	4	8	<0.5	<0.5	<0.5	--	--
	02/13/09	--	3	6	<0.5	<0.5	<0.5	--	--
	05/08/09	--	7	2	<0.5	<0.5	<0.5	--	--
	08/07/09	--	<2	2	<0.5	<0.5	<0.5	--	--
	11/05/09	--	2	0.9	<0.5	<0.5	<0.5	--	--
	05/06/10	--	<2	0.9	<0.5	<0.5	<0.5	--	--
	11/03/10	--	<2	0.9	<0.5	<0.5	<0.5	--	--
MW-6	08/27/08	--	390	440	<0.5	<0.5	6	--	--
	11/21/08	--	320	300	<13	<13	<13	--	--
	02/13/09	--	100	180	<1	<1	4	--	--
	05/08/09	--	16	38	<0.5	<0.5	0.9	--	--
	08/07/09	--	190	330	<3	<3	5	--	--
	11/05/09	--	86	160	<1	<1	4	--	--
	05/06/10	--	2	9	<0.5	<0.5	<0.5	--	--
	11/03/10	--	98	160	<3	<3	3	--	--
MW-7	08/27/08	--	<2	6	<0.5	<0.5	<0.5	--	--
	11/21/08	--	5	6	<0.5	<0.5	<0.5	--	--
	02/13/09	--	<2	7	<0.5	<0.5	<0.5	--	--
	05/08/09	--	<2	8	<0.5	<0.5	<0.5	--	--
	08/07/09	--	4	5	<0.5	<0.5	<0.5	--	--
	11/05/09	--	9	5	<1	<1	<1	--	--
	05/06/10	--	3	6	<0.5	<0.5	<0.5	--	--
	11/03/10	--	6	4	<0.5	<0.5	<0.5	--	--
MW-8	08/27/08	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
	11/21/08	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
	02/13/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
	05/08/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
	08/07/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
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)
MW-8 (cont)	11/05/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
	05/06/10	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
	11/03/10	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	03/12/02	--	<100	<2	<2	<2	<2	<2	<2
	06/07/02	--	<100	<2	<2	<2	<2	<2	<2
	09/13/02	--	<100	<2	<2	<2	<2	<2	<2
	12/13/02	--	<100	<2	<2	<2	<2	<2	<2
	03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DESTROYED									
MW-2	03/12/02	--	<100	3	<2	<2	<2	<2	<2
	06/07/02	--	<100	<2	<2	<2	<2	<2	<2
	09/13/02	--	<100	<2	<2	<2	<2	<2	<2
	12/13/02	--	<100	<2	<2	<2	<2	<2	<2
	03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/03	<50	<5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
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)
MW-2 (cont)	06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DESTROYED									
MW-3	03/12/02	--	<100	650	<2	<2	18	<2	<2
	06/07/02	--	230	490	<5.0	<5.0	11	<5.0	<5.0
	09/13/02	--	170	640	<2	<2	8	<2	<2
	12/13/02	--	240	540	<2	<2	29	31	<2
	03/01/03	--	160	330	<0.5	<0.5	10	<0.5	<0.5
	06/27/03	--	200	470	<0.5	<0.5	11	<0.5	<0.5
	09/30/03	<50	120	710	<0.5	<0.5	6	0.7	<0.5
	12/03/03	<250	200	420	<3	<3	14	<3	<3
	03/10/04	<50	140	220	<0.5	<0.5	5	<0.5	<0.5
	06/30/04	<50	100	660	<0.5	<0.5	5	<0.5	<0.5
	09/30/04	<50	72	690	<0.5	<0.5	4	0.5	<0.5
	12/31/04	<50	77	170	<0.5	<0.5	5	<0.5	<0.5
	03/23/05	<50	<5	140	<0.5	<0.5	4	<0.5	3
	06/22/05	<250	150	300	<3	<3	6	<3	<3
	09/02/05	<100	99	440	<1	<1	<1	<1	<1
	12/02/05	<100	66	170	<1	<1	5	<1	<1
	03/20/06	<50	14	34	<0.5	<0.5	<0.5	<0.5	<0.5
06/01/06	<50	12	28	<0.5	<0.5	0.8	<0.5	<0.5	
09/11/06	<50	47	97	<0.5	<0.5	2	<0.5	<0.5	
DESTROYED									
MW-4	03/12/02	--	<100	170	<2	<2	13	<2	<2
	06/07/02	--	<100	120	<2	<2	14	<2	<2
	09/13/02	--	<100	160	<2	<2	14	<2	<2
	12/13/02	--	<100	200	<2	<2	17	<2	<2
	03/01/03	--	19	100	<0.5	<0.5	8	<0.5	<0.5
	06/27/03	--	22	130	<0.5	<0.5	11	<0.5	<0.5
	09/30/03	<100	<10	520	<1	<1	9	<1	<1
	12/03/03	<50	18	73	<0.5	<0.5	5	<0.5	<0.5
	03/10/04	<50	11	55	<0.5	<0.5	4	<0.5	<0.5
	06/30/04	<100	<10	110	<1	<1	6	<1	<1
	09/30/04	<50	17	400	<0.5	<0.5	7	<0.5	<0.5
	12/31/04	<50	11	42	<0.5	<0.5	2	<0.5	<0.5

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
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)
MW-4 (cont)	03/23/05	<50	<5	24	<0.5	<0.5	1	<0.5	0.9
	06/22/05	<50	15	18	<0.5	<0.5	1	<0.5	<0.5
	09/02/05	<50	6	18	<0.5	<0.5	<0.5	<0.5	<0.5
	12/02/05	<50	11	34	<0.5	<0.5	1	<0.5	<0.5
	03/20/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5
	06/01/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5
	09/11/06	<50	<5	4	<0.5	<0.5	<0.5	<0.5	<0.5
	DESTROYED								

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #9-2029
890 West MacArthur Blvd.
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 #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 11-3-10 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-5 Date Monitored: 11-3-10
 Well Diameter: 2 in.
 Total Depth: 25.01 ft.
 Depth to Water: 9.05 ft.

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

Check if water column is less than 0.50 ft.

Depth to Water 15.96 xVF .17 = 2.71 x3 case volume = Estimated Purge Volume: 8.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.24

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 / Absorbent Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____
Product Transferred to:	_____

Start Time (purge): 0930 Weather Conditions: SYNNY
 Sample Time/Date: 1000 11-3-10 Water Color: CLEAN Odor: DIRTY SWEET
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)
<u>0935</u>	<u>2.5</u>	<u>6.98</u>	<u>500</u>	<u>21.6</u>	_____	_____
<u>0940</u>	<u>5.0</u>	<u>6.95</u>	<u>511</u>	<u>21.3</u>	_____	_____
<u>0946</u>	<u>8.0</u>	<u>6.92</u>	<u>520</u>	<u>20.9</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)/ 5 OXYS (8260)</u>

COMMENTS:

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 11-3-10 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-6
 Well Diameter: 2 in.
 Total Depth: 24.98 ft.
 Depth to Water: 8.05 ft.

Date Monitored: 11-3-10

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

Check if water column is less than 0.50 ft.

Depth to Water 16.93 xVF .17 = 2.87 x3 case volume = Estimated Purge Volume: 8.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.43

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): 1015 Weather Conditions: SUNNY
 Sample Time/Date: 1045 / 11-3-10 Water Color: CLEAR Odor: 0 / N STRONG
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1020</u>	<u>2.5</u>	<u>6.96</u>	<u>562</u>	<u>21.5</u>	_____	_____
<u>1025</u>	<u>5.0</u>	<u>6.93</u>	<u>573</u>	<u>21.1</u>	_____	_____
<u>1032</u>	<u>8.5</u>	<u>6.90</u>	<u>582</u>	<u>20.9</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)/ 5 OXYS (8260)</u>

COMMENTS: SHEEN PRESENT IN WATER

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 11-3-10 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-7 Date Monitored: 11-3-10
 Well Diameter: 2 in.
 Total Depth: 24.93 ft.
 Depth to Water: 9.48 ft.

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

Check if water column is less than 0.50 ft.

15.45 xVF .17 = 2.62 x3 case volume = Estimated Purge Volume: 8.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.57

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 0830 Weather Conditions: SLYNT
 Sample Time/Date: 0900 11-3-10 Water Color: CLEAR Odor: 0/N STRONG
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.22

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)
<u>0835</u>	<u>2.5</u>	<u>7.05</u>	<u>512</u>	<u>21.4</u>		
<u>0840</u>	<u>5.0</u>	<u>7.01</u>	<u>521</u>	<u>21.0</u>		
<u>0846</u>	<u>8.0</u>	<u>7.02</u>	<u>530</u>	<u>20.8</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6 x vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)/ 5 OXYS (8260)</u>

COMMENTS:

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 11-3-10 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-8 Date Monitored: 11-3-10
 Well Diameter: 2 in.
 Total Depth: 24.98 ft.
 Depth to Water: 11.37 ft. Check if water column is less than 0.50 ft.
13.61 xVF .17 = 2.31 x3 case volume = Estimated Purge Volume: 7.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.09

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

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1100 Weather Conditions: SUNNY
 Sample Time/Date: 1130 / 11-3-10 Water Color: B2N Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: SILTY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.90

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1105</u>	<u>2.5</u>	<u>7.27</u>	<u>406</u>	<u>21.2</u>	_____	_____
<u>1110</u>	<u>5.0</u>	<u>7.25</u>	<u>412</u>	<u>20.9</u>	_____	_____
<u>1115</u>	<u>7.0</u>	<u>7.22</u>	<u>420</u>	<u>20.6</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)/ 5 OXYS (8260)</u>

COMMENTS: INSTALLED NEW WELL COVER.

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

Chevron California Region Analysis Request/Chain of Custody



110310-05

Acct. #: 12099 For Lancaster Laboratories use only Sample # 6131596-99 Group #: 020088

CRA MTI Project #: 61-1974

Analyses Requested

Grp # 1219624

Facility #: SS#9-2029 G-R#386911 Global ID#T0600173887
 Site Address: 890 WEST MACARTHUR BLVD., 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: FRANK TRINCONI

Matrix	Preservation Codes		Total Number of Containers	BTEX 8260 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	S Oxygenates (8260)	Total Lead Method	Dissolved Lead Method
	Soil	Water								
Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Oil	<input type="checkbox"/>	<input type="checkbox"/>	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Air	<input type="checkbox"/>	<input type="checkbox"/>	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

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

8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air
MW-5	11-3-10	1000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MW-6		1045	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MW-7		0900	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MW-8		1130	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Relinquished by: <i>[Signature]</i>	Date: 11/3/10	Time: 1240	Received by: <i>[Signature]</i>	Date: 11/3/10	Time: 1240
Relinquished by: <i>[Signature]</i>	Date: 03 NOV 10	Time: 1630	Received by: FEDEX	Date:	Time:
Relinquished by: _____	Date:	Time:	Received by: _____	Date:	Time:
Relinquished by Commercial Carrier: UPS <i>[Signature]</i>	Other: _____		Received by: <i>[Signature]</i>	Date: 11/3/10	Time: 0845
Temperature Upon Receipt: 6.7-6.6 °C	Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2661 • www.lancasterlabs.com

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

November 12, 2010

Project: 92029

Submittal Date: 11/04/2010
Group Number: 1219624
PO Number: 92029
Release Number: MTI
State of Sample Origin: CA

RECEIVED

NOV 15 2010

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Client Sample Description

MW-5-W-101103 Grab Water
MW-6-W-101103 Grab Water
MW-7-W-101103 Grab Water
MW-8-W-101103 Grab Water

Lancaster Labs (LLI)

6131596
6131597
6131598
6131599

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

ELECTRONIC COPY TO Gettler-Ryan, Inc.
ELECTRONIC COPY TO Chevron c/o CRA
ELECTRONIC COPY TO Chevron

Attn: Rachelle Munoz

Attn: Report Contact

Attn: Anna Avina



Analysis Report

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

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

Respectfully Submitted,

A handwritten signature in black ink that reads "Lawrence M. Taylor".

Lawrence M. Taylor
Senior Specialist



Analysis Report

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

Page 1 of 1

Sample Description: MW-5-W-101103 Grab Water

Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W MacArthur-Oakland T0600173887 MW-5

LLI Sample # WW 6131596
LLI Group # 1219624
Account # 12099

Project Name: 92029

Collected: 11/03/2010 10:00 by FT Chevron c/o CRA
Suite 107
Submitted: 11/04/2010 08:45 10969 Trade Center Dr
Reported: 11/12/2010 10:36 Rancho Cordova CA 95670

MOMW5

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	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10943	Benzene	71-43-2	13	0.5	1
10943	t-Butyl alcohol	75-65-0	N.D.	2	1
10943	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	8	0.5	1
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	0.9	0.5	1
10943	Toluene	108-88-3	4	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.	5,000	250	5

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103121AA	11/08/2010 14:47	Daniel H Heller	1
10943	BTEX + 5 Oxygenates 8260 Water	SW-846 8260B	1	D103121AA	11/08/2010 14:47	Daniel H Heller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10312A20B	11/09/2010 13:07	Carrie E Miller	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10312A20B	11/09/2010 13:07	Carrie E Miller	5



Analysis Report

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

Sample Description: MW-6-W-101103 Grab Water

Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W MacArthur-Oakland T0600173887 MW-6

LLI Sample # WW 6131597
LLI Group # 1219624
Account # 12099

Project Name: 92029

Collected: 11/03/2010 10:45 by FT Chevron c/o CRA
Suite 107
Submitted: 11/04/2010 08:45 10969 Trade Center Dr
Reported: 11/12/2010 10:36 Rancho Cordova CA 95670

MOMW6

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	t-Amyl methyl ether	994-05-8	3	3	5
10943	Benzene	71-43-2	1,100	25	50
10943	t-Butyl alcohol	75-65-0	98	10	5
10943	Ethyl t-butyl ether	637-92-3	N.D.	3	5
10943	Ethylbenzene	100-41-4	670	3	5
10943	di-Isopropyl ether	108-20-3	N.D.	3	5
10943	Methyl Tertiary Butyl Ether	1634-04-4	160	3	5
10943	Toluene	108-88-3	8	3	5
10943	Xylene (Total)	1330-20-7	58	3	5
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	13,000	500	10

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103121AA	11/08/2010 15:09	Daniel H Heller	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D103121AA	11/08/2010 15:32	Daniel H Heller	50
10943	BTEX + 5 Oxygenates 8260 Water	SW-846 8260B	1	D103121AA	11/08/2010 15:09	Daniel H Heller	5
10943	BTEX + 5 Oxygenates 8260 Water	SW-846 8260B	1	D103121AA	11/08/2010 15:32	Daniel H Heller	50
01146	GC VOA Water Prep	SW-846 5030B	1	10312A20A	11/08/2010 19:27	Elizabeth J Marin	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10312A20A	11/08/2010 19:27	Elizabeth J Marin	10



Analysis Report

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

Sample Description: MW-7-W-101103 Grab Water

Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W MacArthur-Oakland T0600173887 MW-7

LLI Sample # WW 6131598
LLI Group # 1219624
Account # 12099

Project Name: 92029

Collected: 11/03/2010 09:00 by FT Chevron c/o CRA
Suite 107
Submitted: 11/04/2010 08:45 10969 Trade Center Dr
Reported: 11/12/2010 10:36 Rancho Cordova CA 95670

MOMW7

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	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10943	Benzene	71-43-2	150	5	10
10943	t-Butyl alcohol	75-65-0	6	2	1
10943	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	45	0.5	1
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	4	0.5	1
10943	Toluene	108-88-3	0.7	0.5	1
10943	Xylene (Total)	1330-20-7	2	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,700	250	5

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103121AA	11/08/2010 15:55	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D103121AA	11/08/2010 16:18	Daniel H Heller	10
10943	BTEX + 5 Oxygenates 8260 Water	SW-846 8260B	1	D103121AA	11/08/2010 15:55	Daniel H Heller	1
10943	BTEX + 5 Oxygenates 8260 Water	SW-846 8260B	1	D103121AA	11/08/2010 16:18	Daniel H Heller	10
01146	GC VOA Water Prep	SW-846 5030B	1	10312A20A	11/08/2010 19:49	Elizabeth J Marin	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10312A20A	11/08/2010 19:49	Elizabeth J Marin	5



Analysis Report

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

Sample Description: MW-8-W-101103 Grab Water
Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W MacArthur-Oakland T0600173887 MW-8

LLI Sample # WW 6131599
LLI Group # 1219624
Account # 12099

Project Name: 92029

Collected: 11/03/2010 11:30 by FT Chevron c/o CRA
Suite 107
Submitted: 11/04/2010 08:45 10969 Trade Center Dr
Reported: 11/12/2010 10:36 Rancho Cordova CA 95670

MOMW8

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	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10943	Benzene	71-43-2	N.D.	0.5	1
10943	t-Butyl alcohol	75-65-0	N.D.	2	1
10943	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	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

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D103121AA	11/08/2010 16:40	Daniel H Heller	1
10943	BTEX + 5 Oxygenates 8260 Water	SW-846 8260B	1	D103121AA	11/08/2010 16:40	Daniel H Heller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10312A20A	11/08/2010 15:06	Elizabeth J Marin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10312A20A	11/08/2010 15:06	Elizabeth J Marin	1

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 11/12/10 at 10:36 AM

Group Number: 1219624

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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D103121AA	Sample number(s): 6131596-6131599							
t-Amyl methyl ether	N.D.	0.5	ug/l	85		77-120		
Benzene	N.D.	0.5	ug/l	94		79-120		
t-Butyl alcohol	N.D.	2.	ug/l	94		62-129		
Ethyl t-butyl ether	N.D.	0.5	ug/l	86		76-120		
Ethylbenzene	N.D.	0.5	ug/l	97		79-120		
di-Isopropyl ether	N.D.	0.5	ug/l	87		71-124		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	87		76-120		
Toluene	N.D.	0.5	ug/l	99		79-120		
Xylene (Total)	N.D.	0.5	ug/l	102		80-120		
Batch number: 10312A20A	Sample number(s): 6131597-6131599							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	91	75-135	18	30
Batch number: 10312A20B	Sample number(s): 6131596							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	91	75-135	18	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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: D103121AA	Sample number(s): 6131596-6131599 UNSPK: P131462								
t-Amyl methyl ether	81	83	75-122	2	30				
Benzene	95	95	80-126	0	30				
t-Butyl alcohol	86	89	67-119	4	30				
Ethyl t-butyl ether	82	84	74-122	2	30				
Ethylbenzene	99	99	71-134	1	30				
di-Isopropyl ether	85	86	70-129	1	30				
Methyl Tertiary Butyl Ether	85	86	72-126	0	30				
Toluene	101	100	80-125	0	30				
Xylene (Total)	103	103	79-125	0	30				
Batch number: 10312A20A	Sample number(s): 6131597-6131599 UNSPK: P132947								
TPH-GRO N. CA water C6-C12	100		63-154						
Batch number: 10312A20B	Sample number(s): 6131596 UNSPK: P132947								
TPH-GRO N. CA water C6-C12	100		63-154						

*- 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: 11/12/10 at 10:36 AM

Group Number: 1219624

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: D103121AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6131596	89	93	101	106
6131597	88	93	100	97
6131598	88	93	100	99
6131599	89	95	99	93
Blank	93	95	100	94
LCS	90	95	98	96
MS	91	95	99	97
MSD	90	97	99	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10312A20A
Trifluorotoluene-F

6131597	108
6131598	110
6131599	87
Blank	88
LCS	111
LCSD	109
MS	111
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10312A20B
Trifluorotoluene-F

6131596	108
Blank	90
LCS	111
LCSD	109
MS	111
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.

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 <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq 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		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.