



# GETTLER-RYAN INC.

## TRANSMITTAL

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10:04 am, Jul 28, 2008

Alameda County  
Environmental Health

May 14, 2008

G-R #386895

TO: Ms. Charlotte Evans  
Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

CC: Ms. Olivia Skance  
Chevron Environmental  
Management Company  
P.O. Box 6012, Room K2196  
San Ramon, California 94583

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

RE: **Chevron Service Station  
#9-3600  
2200 Telegraph Avenue  
Oakland, California  
RO 0002435**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	May 13, 2008	Groundwater Monitoring and Sampling Report <b>Second Quarter Event of April 4, 2008</b>

### COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced report for **your use and distribution to the following (via PDF):**

Mr. Steven Plunkett, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor  
Bay Parkway, Suite 250, Alameda, CA 94502-6577  
(Distributed by Conestoga-Rovers & Associates via PDF)

Enclosures



Olivia Skance  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6001 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 842-5005  
Fax (925) 842-8370  
olivia.skance@chevron.com

~~May 14, 2008~~

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

Re: Chevron Service Station No. 9-3600  
Address 2200 Telegraph Ave.

I have reviewed the attached routine groundwater monitoring report dated May 14, 2008.

I agree with the conclusions and recommendations presented in the referenced workplan. This information in this workplan is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gertler-Ryan Inc., upon who 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 cursive script that reads "Olivia Skance".

Olivia Skance  
Project Manager

Attachment: Report

# WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-3600  
 Site Address: 2200 Telegraph Avenue  
 City: Oakland, CA

Job # 386895  
 Event Date: 4/4/08  
 Sampler: KE

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			Pictures Taken Yes / No
										Manufacture/	Size/	# of Bolts	
mw-1	OK	OK	OK	2(S)	OK	OK	OK	n	n	PEMCO	1/2	2	no
mw-2	↓	↓	↓	OK	↓	↓	↓	↓	↓	↓	↓	↓	↓
mw-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# GETTLER-RYAN INC.



May 13, 2008  
G-R Job #386895

Ms. Olivia Skance  
Chevron Environmental Management Company  
P.O. Box 6012, Room K2196  
San Ramon, CA 94583

**RE: Second Quarter Event of April 4, 2008**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

Dear Ms. Skance:

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

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

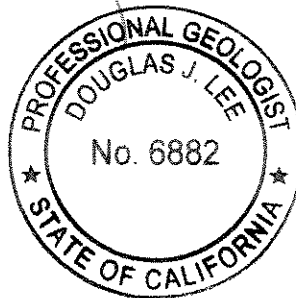
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

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

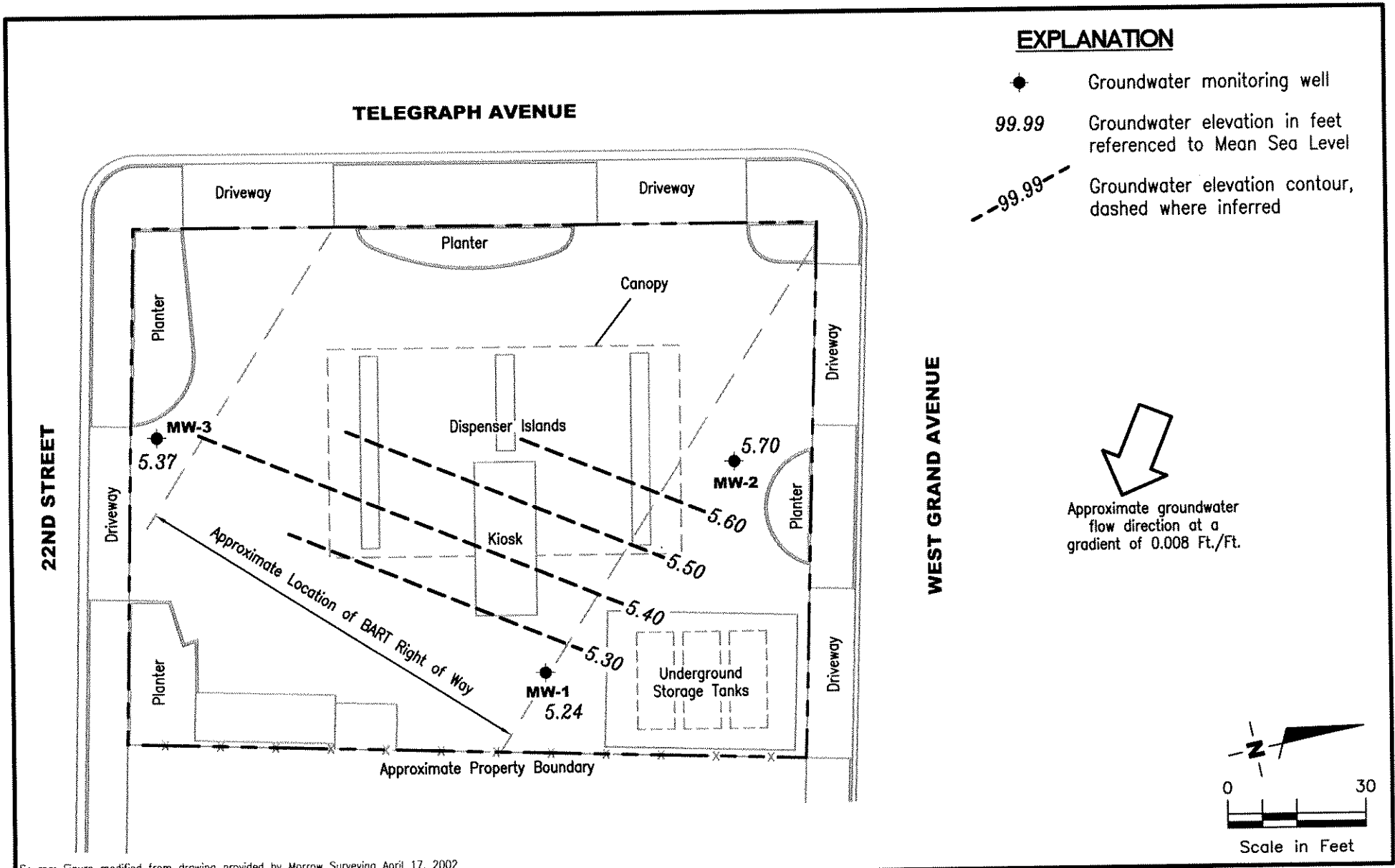
Sincerely,

Deanna L. Harding  
Project Coordinator

Douglas J. Lee  
Senior Geologist, 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



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

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-3600  
 2200 Telegraph Avenue  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER  
**386895**

REVIEWED BY

DATE  
 April 4, 2008

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

<b>WELL ID/ DATE</b>	<b>TOC* (ft.)</b>	<b>DTW (ft.)</b>	<b>GWE (ft.)</b>	<b>TPH-G (ppb)</b>	<b>B (ppb)</b>	<b>T (ppb)</b>	<b>E (ppb)</b>	<b>X (ppb)</b>	<b>MTBE (ppb)</b>
<b>MW-1</b>									
04/05/02 <sup>1</sup>	17.07	11.68	5.39	2,000	5.0	<1.0	14	8.4	310/370 <sup>2</sup>
07/01/02	17.07	12.01	5.06	2,000	8.9	<1.0	97	31	370/420 <sup>2</sup>
10/08/02	17.07	12.20	4.87	1,400	9.2	<10	75	20	440/360 <sup>2</sup>
01/11/03	17.07	11.13	5.94	1,600	7.1	0.51	53	13	280/270 <sup>2</sup>
04/01/03	17.07	11.53	5.54	1,800	5.2	0.6	25	9.1	210/210 <sup>2</sup>
07/01/03 <sup>3</sup>	17.07	11.95	5.12	2,000	4	<0.5	31	12	170
10/02/03 <sup>3</sup>	17.07	12.25	4.82	480	<5	<5	<5	<5	9,800
01/05/04 <sup>3</sup>	17.07	11.05	6.02	1,700	3	<0.5	27	4	140
04/05/04 <sup>3</sup>	17.07	11.63	5.44	1,500	2	<0.5	21	0.6	120
07/01/04 <sup>3</sup>	17.07	12.08	4.99	1,500	1	<0.5	3	<0.5	130
10/05/04 <sup>3</sup>	17.07	12.21	4.86	1,400	<0.5	<0.5	1	0.5	130
01/04/05 <sup>3</sup>	17.07	11.15	5.92	1,500	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	17.07	11.20	5.87	2,100	<0.5	<0.5	4	0.5	61
07/08/05 <sup>3</sup>	17.07	11.38	5.69	1,800	<0.5	<0.5	0.8	<0.5	71
10/27/05 <sup>3</sup>	17.07	12.24	4.83	800	<0.5	<0.5	<0.5	<0.5	76
01/12/06 <sup>3</sup>	17.07	11.10	5.97	1,600	<0.5	<0.5	4	<0.5	47
04/13/06 <sup>3</sup>	17.07	10.81	6.26	1,500	<0.5	<0.5	1	<0.5	36
07/13/06 <sup>3</sup>	17.07	11.18	5.89	990	<0.5	<0.5	<0.5	<0.5	44
10/16/06 <sup>3</sup>	17.07	12.18	4.89	780	<0.5	<0.5	<0.5	<0.5	59
01/20/07 <sup>3</sup>	17.07	11.91	5.16	890	<0.5	<0.5	<0.5	<0.5	47
04/11/07 <sup>3</sup>	17.07	11.87	5.20	1,900	<0.5	<0.5	4	<0.5	39
07/27/07 <sup>3</sup>	17.07	11.91	5.16	1,500	<0.5	<0.5	0.6	<0.5	56
10/22/07 <sup>3</sup>	17.07	-- <sup>4</sup>	--	610	<0.5	<0.5	<0.5	<0.5	65
11/26/07	17.07	11.96	5.11	--	--	--	--	--	--
01/21/08 <sup>3</sup>	17.07	11.78	5.29	1,100	<0.5	<0.5	0.8	<0.5	48
<b>04/04/08<sup>3</sup></b>	<b>17.07</b>	<b>11.83</b>	<b>5.24</b>	<b>1,600</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>53</b>
<b>MW-2</b>									
04/05/02 <sup>1</sup>	16.82	11.17	5.65	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
07/01/02	16.82	11.36	5.46	<50	<0.50	0.57	0.52	<1.5	<2.5/<2 <sup>2</sup>
10/08/02	16.82	11.57	5.25	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
01/11/03	16.82	10.94	5.88	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
04/01/03	16.82	11.03	5.79	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>MW-2 (cont)</b>									
07/01/03 <sup>3</sup>	16.82	11.30	5.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 <sup>3</sup>	16.82	11.63	5.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	16.82	10.82	6.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	16.82	11.21	5.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/01/04 <sup>3</sup>	16.82	11.46	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 <sup>3</sup>	16.82	11.57	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	16.82	10.87	5.95	<50	0.5	<0.5	8	0.9	87
04/14/05 <sup>3</sup>	16.82	10.72	6.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	16.82	11.16	5.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	16.82	11.59	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	16.82	10.37	6.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	16.82	10.68	6.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	16.82	11.48	5.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	16.82	11.20	5.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	16.82	11.27	5.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 <sup>3</sup>	16.82	-- <sup>4</sup>	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/26/07	16.82	11.31	5.51	--	--	--	--	--	--
01/21/08 <sup>3</sup>	16.82	11.08	5.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>04/04/08<sup>3</sup></b>	<b>16.82</b>	<b>11.12</b>	<b>5.70</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
<b>MW-3</b>									
04/05/02 <sup>1</sup>	16.52	11.29	5.23	<50	<0.50	0.59	<0.50	<1.5	<2.5/<2 <sup>2</sup>
07/01/02	16.52	11.55	4.97	<50	<0.50	0.60	<0.50	<1.5	<2.5/<2 <sup>2</sup>
10/08/02	16.52	11.62	4.90	<100	<2.0	<2.0	<2.0	<5.0	<10/<2 <sup>2</sup>
01/11/03	16.52	11.09	5.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>2</sup>
04/01/03	16.52	11.25	5.27	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>2</sup>
07/01/03 <sup>3</sup>	16.52	11.42	5.10	<50	<0.5	<0.5	<0.5	<0.5	2
10/02/03 <sup>3</sup>	16.52	11.74	4.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	16.52	11.06	5.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	16.52	11.40	5.12	<50	<0.5	<0.5	<0.5	<0.5	0.6
07/01/04 <sup>3</sup>	16.52	11.58	4.94	<50	<0.5	<0.5	<0.5	<0.5	0.8

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

<b>WELL ID/ DATE</b>	<b>TOC* (ft.)</b>	<b>DTW (ft.)</b>	<b>GWE (ft.)</b>	<b>TPH-G (ppb)</b>	<b>B (ppb)</b>	<b>T (ppb)</b>	<b>E (ppb)</b>	<b>X (ppb)</b>	<b>MTBE (ppb)</b>
<b>MW-3 (cont)</b>									
10/05/04 <sup>3</sup>	16.52	11.60	4.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	16.52	10.95	5.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	16.52	11.10	5.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	16.52	11.29	5.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/27/05 <sup>3</sup>	16.52	11.68	4.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	16.52	10.83	5.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	16.52	10.65	5.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	16.52	11.03	5.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	16.52	11.46	5.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	16.52	11.39	5.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	16.52	11.27	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	16.52	11.38	5.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 <sup>3</sup>	16.52	-- <sup>4</sup>	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/26/07	16.52	11.35	5.17	--	--	--	--	--	--
01/21/08 <sup>3</sup>	16.52	11.16	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>04/04/08<sup>3</sup></b>	<b>16.52</b>	<b>11.15</b>	<b>5.37</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
<b>TRIP BLANK</b>									
<b>QA</b>									
04/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/01/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/08/02	--	--	--	<100	<2.0	<2.0	<2.0	<5.0	<10
01/11/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/01/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/01/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/02/03 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/01/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/05/04 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/04/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/14/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/08/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
 Chevron Service Station #9-3600  
 2200 Telegraph Avenue  
 Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
<b>QA (cont)</b>									
10/27/05 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/06 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/20/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/11/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/27/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/07 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/08 <sup>3</sup>	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
<b>04/04/08<sup>3</sup></b>	--	--	--	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

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**EXPLANATIONS:**

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

\* TOC elevations were surveyed on April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

<sup>1</sup> Well development performed.

<sup>2</sup> MTBE by EPA Method 8260.

<sup>3</sup> BTEX and MTBE by EPA Method 8260.

<sup>4</sup> DTW measurements were not recorded correctly.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-1	04/05/02	--	200	370	<2	<2	10
	07/01/02	--	190	420	<2	<2	9
	10/08/02	--	110	360	<2	<2	8
	01/11/03	--	<100	270	<2	<2	7
	04/01/03	--	22	210	<0.5	<0.5	5
	07/01/03	<50	26	170	<0.5	<0.5	5
	10/02/03	<500	2,600	9,800	<5	<5	6
	01/05/04	<50	21	140	<0.5	<0.5	3
	04/05/04	<50	17	120	<0.5	<0.5	3
	07/01/04	<50	13	130	<0.5	<0.5	2
	10/05/04	<50	14	130	<0.5	<0.5	2
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/14/05	<50	15	61	<0.5	<0.5	1
	07/08/05	<50	15	71	<0.5	<0.5	1
	10/27/05	<50	10	76	<0.5	<0.5	1
	01/12/06	<50	12	47	<0.5	<0.5	<0.5
	04/13/06	<50	8	36	<0.5	<0.5	0.6
	07/13/06	<50	7	44	<0.5	<0.5	0.7
	10/16/06	<50	6	59	<0.5	<0.5	1
	01/20/07	<50	8	47	<0.5	<0.5	0.8
	04/11/07	<50	9	39	<0.5	<0.5	0.7
07/27/07	<50	8	56	<0.5	<0.5	0.8	
10/22/07	<50	5	65	<0.5	<0.5	0.7	
01/21/08	<50	5	48	<0.5	<0.5	0.7	
<b>04/04/08</b>	<b>&lt;50</b>	<b>6</b>	<b>53</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>0.6</b>	
MW-2	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-2 (cont)	04/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/01/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/04/05	<50	14	87	<0.5	<0.5	2
	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/25/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/22/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	<b>04/04/08</b>	<b>&lt;50</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
MW-3	04/05/02	--	<100	<2	<2	<2	<2
	07/01/02	--	<100	<2	<2	<2	<2
	10/08/02	--	<100	<2	<2	<2	<2
	01/11/03	--	<100	<2	<2	<2	<2
	04/01/03	--	<5	<0.5	<0.5	<0.5	<0.5
	07/01/03	<50	<5	2	<0.5	<0.5	<0.5
	10/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/05/04	<50	<5	0.6	<0.5	<0.5	<0.5
	07/01/04	<50	<5	0.8	<0.5	<0.5	<0.5
	10/05/04	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/04/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	04/14/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/08/05	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/27/05	<50	<5	<0.5	<0.5	<0.5	<0.5
01/12/06	<50	<5	<0.5	<0.5	<0.5	<0.5	

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Chevron Service Station #9-3600  
2200 Telegraph Avenue  
Oakland, California

<b>WELL ID</b>	<b>DATE</b>	<b>ETHANOL</b> <i>(ppb)</i>	<b>TBA</b> <i>(ppb)</i>	<b>MTBE</b> <i>(ppb)</i>	<b>DIPE</b> <i>(ppb)</i>	<b>ETBE</b> <i>(ppb)</i>	<b>TAME</b> <i>(ppb)</i>
MW-3 (cont)	04/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	07/13/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/16/06	<50	<5	<0.5	<0.5	<0.5	<0.5
	01/20/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	04/11/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	07/27/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	10/22/07	<50	<2	<0.5	<0.5	<0.5	<0.5
	01/21/08	<50	<2	<0.5	<0.5	<0.5	<0.5
	<b>04/04/08</b>	<b>&lt;50</b>	<b>&lt;2</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>

**Groundwater Analytical Results - Oxygenate Compounds**

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California

**EXPLANATIONS:**

TBA = t-Butyl alcohol

MTBE = Methyl Tertiary Butyl Ether

DIPE = di-Isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether

(ppb) = Parts per billion

-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, 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 #9-3600  
 Site Address: 2200 Telegraph Avenue  
 City: Oakland, CA

Job Number: 386895  
 Event Date: 4/4/08 (inclusive)  
 Sampler: KE

Well ID: MW-1  
 Well Diameter: 2 in.  
 Total Depth: 20.21 ft.  
 Depth to Water: 11.83 ft.  
8.38 x VF .17 = 1.4

Date Monitored: 4/4/08

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.  
 x3 case volume = Estimated Purge Volume: 4.2 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.50

### 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): 0900  
 Sample Time/Date: 0925 / 4/4/08  
 Approx. Flow Rate: .5 gpm.  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 12.11

Weather Conditions: Sunny  
 Water Color: Cloudy Odor: (Y) Slight  
 Sediment Description: light

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C) / (F)	D.O. (mg/L)	ORP (mV)
<u>0903</u>	<u>1.5</u>	<u>6.98</u>	<u>452</u>	<u>17.3</u>		
<u>0906</u>	<u>3</u>	<u>6.92</u>	<u>466</u>	<u>17.5</u>		
<u>0909</u>	<u>4</u>	<u>6.86</u>	<u>473</u>	<u>17.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL (8260)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-3600  
 Site Address: 2200 Telegraph Avenue  
 City: Oakland, CA

Job Number: 386895  
 Event Date: 4/4/08 (inclusive)  
 Sampler: KE

Well ID: MW-2  
 Well Diameter: 2 in.  
 Total Depth: 20.19 ft.  
 Depth to Water: 11.12 ft.

Date Monitored: 4/4/08

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.93  
 Check if water column is less than 0.50 ft.  
 xVF 1.7 = 1.5 x3 case volume = Estimated Purge Volume: 4.5 gal.

### Purge Equipment:

Disposible Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposible 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): 0940 Weather Conditions: Sunny  
 Sample Time/Date: 1005 4/4/08 Water Color: Cloudy Odor: Y (N)  
 Approx. Flow Rate: .5 gpm. Sediment Description: light  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 11.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>DS</u> )	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0944</u>	<u>1.5</u>	<u>6.72</u>	<u>628</u>	<u>17.6</u>		
<u>0949</u>	<u>3</u>	<u>6.65</u>	<u>641</u>	<u>18.0</u>		
<u>0953</u>	<u>4.5</u>	<u>6.60</u>	<u>653</u>	<u>18.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	<u>6</u> x vva vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL (8260)

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-3600  
 Site Address: 2200 Telegraph Avenue  
 City: Oakland, CA

Job Number: 386895  
 Event Date: 4/4/08 (inclusive)  
 Sampler: KE

Well ID: MW-3  
 Well Diameter: 2 in.  
 Total Depth: 20.13 ft.  
 Depth to Water: 11.15 ft.  
8.98 xVF .17 = 1.5

Date Monitored: 4/4/08

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.  
 Estimated Purge Volume: 4.5 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.94

**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): 0820  
 Sample Time/Date: 0845 / 4/4/08  
 Approx. Flow Rate: .5 gpm.  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 11.62

Weather Conditions: Sunny  
 Water Color: Cloudy Odor: Y1(N)  
 Sediment Description: light

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0824</u>	<u>1.5</u>	<u>7.13</u>	<u>501</u>	<u>16.6</u>	_____	_____
<u>0827</u>	<u>3</u>	<u>7.08</u>	<u>517</u>	<u>16.9</u>	_____	_____
<u>0831</u>	<u>4.5</u>	<u>7.05</u>	<u>525</u>	<u>17.1</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
					TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL (8260)
<u>MW-3</u>	<u>6 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_

# Chevron California Region Analysis Request/Chain of Custody



**Lancaster Laboratories** 040408-02

For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 5324218-21 Group #: 004644

G# 1085016

Facility #: <u>SS#9-3600-OML GR#386895 Global ID#T0600161613</u> Site Address: <u>2200 TELEGRAPH AVENUE, OAKLAND, CA</u> Chevron PM: <u>OS</u> CRACE Consultant/Office: <u>G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568</u> Lead Consultant Consultant Prj. Mgr.: <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Phone #: <u>925-551-7555</u> Fax #: <u>925-551-7899</u> Sampler: <u>Kyle Erbland</u>				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested Preservation Codes Total Number of Containers BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 TPH 8015 MOD GRO TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup 8260 full scan 5 Oxygenates (8260) Total Lead Method Dissolved Lead Method Ethard (8260)				Preservative Codes H = HCl T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits								
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	5 Oxygenates (8260)	Total Lead Method	Dissolved Lead Method	Ethard (8260)	Comments / Remarks
<u>QA</u>	<u>4/4/08</u>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<u>mw-1</u>		<u>0925</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<u>mw-2</u>		<u>1005</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<u>mw-3</u>		<u>0845</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Turnaround Time Requested (TAT) (please circle) <input checked="" type="checkbox"/> STD. TAT 24 hour <input type="checkbox"/> 72 hour <input type="checkbox"/> 48 hour <input type="checkbox"/> 4 day <input type="checkbox"/> 5 day				Relinquished by: <u>[Signature]</u> Date: <u>4/4/08</u> Time: <u>1200</u> Received by: <u>[Signature]</u> Date: <u>4/4/08</u> Time: <u>1200</u>				Relinquished by: <u>[Signature]</u> Date: <u>4/4/08</u> Time: <u>1620</u> Received by: <u>DHL</u>				Relinquished by: <u>[Signature]</u> Date: <u>4/5/08</u> Time: <u>0900</u> Received by: <u>[Signature]</u> Date: <u>4/5/08</u> Time: <u>0900</u>						
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) <input type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk				Relinquished by Commercial Carrier: UPS    FedEx    Other <u>Other</u>				Temperature Upon Receipt: <u>0.7 above</u> °C Custody Seals Intact: Yes <input checked="" type="checkbox"/> No				Received by: <u>[Signature]</u> Date: <u>4/5/08</u> Time: <u>0900</u>						

## ANALYTICAL RESULTS

Prepared for:

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

925-842-8582

Prepared by:

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

RECEIVED

APR 28 2008

GETTLER-RYAN INC.  
GENERAL CONTRACTORSSAMPLE GROUP

The sample group for this submittal is 1085016. Samples arrived at the laboratory on Saturday, April 05, 2008. The PO# for this group is 0015028049 and the release number is SKANCE.

Client DescriptionQA-T-080404 NA Water  
MW-1-W-080404 Grab Water  
MW-2-W-080404 Grab Water  
MW-3-W-080404 Grab WaterLancaster Labs Number5324218  
5324219  
5324220  
5324221

ELECTRONIC COPY TO CRA c/o Gettler-Ryan

Attn: Cheryl Hansen



## **Analysis Report**

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Questions? Contact your Client Services Representative  
Angela M Miller at (717) 656-2300

Respectfully Submitted,

*Martha L. Seidel*

Martha L. Seidel  
Senior Chemist



# Analysis Report

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Lancaster Laboratories Sample No. WW5324218

Group No. 1085016

QA-T-080404 NA Water  
Facility# 93600 Job# 386895 GRD  
2200 Telegraph Ave-Oakland T0600161613 QA  
Collected: 04/04/2008

Account Number: 10904

Submitted: 04/05/2008 09:40  
Reported: 04/25/2008 at 17:32  
Discard: 05/26/2008

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

TAOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	SW-846 8015B modified	1	04/13/2008 15:21	Marie D John	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	04/12/2008 07:29	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/13/2008 15:21	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/12/2008 07:29	Michael A Ziegler	1



# Analysis Report

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Lancaster Laboratories Sample No. WW5324219

Group No. 1085016

MW-1-W-080404 Grab Water  
 Facility# 93600 Job# 386895 GRD  
 2200 Telegraph Ave-Oakland T0600161613 MW-1  
 Collected: 04/04/2008 09:25 by KE

Account Number: 10904

Submitted: 04/05/2008 09:40  
 Reported: 04/25/2008 at 17:32  
 Discard: 05/26/2008

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

TAO01

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
01728	TPH-GRO - Waters	n.a.	1,600.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	53.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	0.6	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	6.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01728	TPH-GRO - Waters	SW-846 8015B modified	1	04/17/2008 12:47	Steven A Skiles	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	04/15/2008 17:28	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/17/2008 12:47	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/15/2008 17:28	Ginelle L Feister	1

Lancaster Laboratories Sample No. WW5324220

Group No. 1085016

MW-2-W-080404 Grab Water  
 Facility# 93600 Job# 386895 GRD  
 2200 Telegraph Ave-Oakland T0600161613 MW-2  
 Collected: 04/04/2008 10:05 by KE

Account Number: 10904

Submitted: 04/05/2008 09:40  
 Reported: 04/25/2008 at 17:32  
 Discard: 05/26/2008

Chevron  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

TAO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06059	ETEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	SW-846 8015B modified	1	04/14/2008 02:28	Marie D John	1
06059	ETEX+5 Oxygenates+ETOH	SW-846 8260B	1	04/15/2008 17:53	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/14/2008 02:28	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/15/2008 17:53	Ginelle L Feister	1





# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW5324221

Group No. 1085016

MW-3-W-080404 Grab Water  
Facility# 93600 Job# 386895 GRD  
2200 Telegraph Ave-Oakland T0600161613 MW-3  
Collected: 04/04/2008 08:45 by KE

Account Number: 10904

Submitted: 04/05/2008 09:40  
Reported: 04/25/2008 at 17:32  
Discard: 05/26/2008

Chevron  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

TAO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO - Waters	SW-846 8015B modified	1	04/14/2008 02:58	Marie D John	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	04/15/2008 18:17	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030E	1	04/14/2008 02:58	Marie D John	1
01163	GC/MS VOA Water Prep	SW-846 5030E	1	04/15/2008 18:17	Ginelle L Feister	1

## Quality Control Summary

 Client Name: Chevron  
 Reported: 04/25/08 at 05:32 PM

Group Number: 1085016

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: 08102B08A TPH-GRO - Waters	N.D.	50.	Sample number(s): 5324218, 5324220-5324221 ug/l	136*	136*	75-135	0	30
Batch number: 08107B08A TPH-GRO - Waters	N.D.	50.	Sample number(s): 5324219 ug/l	100	100	75-135	0	30
Batch number: Z081024AA Methyl Tertiary Butyl Ether	N.D.	0.5	Sample number(s): 5324218 ug/l	97		73-119		
Benzene	N.D.	0.5	ug/l	92		78-119		
Toluene	N.D.	0.5	ug/l	93		85-115		
Ethylbenzene	N.D.	0.5	ug/l	94		82-119		
Xylene (Total)	N.D.	0.5	ug/l	92		83-113		
Batch number: Z081061AA Ethanol	N.D.	50.	Sample number(s): 5324219-5324221 ug/l	140		31-166		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	113		73-119		
n-Isopropyl ether	N.D.	0.5	ug/l	104		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	103		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	104		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	107		74-117		
Benzene	N.D.	0.5	ug/l	98		78-119		
Toluene	N.D.	0.5	ug/l	101		85-115		
Ethylbenzene	N.D.	0.5	ug/l	104		82-119		
Xylene (Total)	N.D.	0.5	ug/l	103		83-113		

### 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: 08102B08A TPH-GRO - Waters			Sample number(s): 5324218, 5324220-5324221 127 63-154			UNSPK: P326950			
Batch number: 08107B08A TPH-GRO - Waters			Sample number(s): 5324219 2816 2827 63-154 (2) (2)	0	30	UNSPK: P331112			
Batch number: Z081024AA Methyl Tertiary Butyl Ether	100	100	Sample number(s): 5324218 69-127	0	30	UNSPK: P326961			
Benzene	100	98	83-128	2	30				
Toluene	100	99	83-127	1	30				
Ethylbenzene	101	101	82-129	0	30				
Xylene (Total)	100	100	82-130	0	30				

\*- 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  
 Reported: 04/25/08 at 05:32 PM

Group Number: 1085016

### 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: Z081061AA	Sample number(s): 5324219-5324221 UNSPK: P326123								
Ethanol	152	151	32-164	1	30				
Methyl Tertiary Butyl Ether	114	116	69-127	2	30				
di-Isopropyl ether	107	109	68-129	2	30				
Ethyl t-butyl ether	105	108	78-119	2	30				
t-Amyl methyl ether	104	104	72-125	0	30				
t-Butyl alcohol	105	107	70-121	2	30				
Benzene	106	110	83-128	3	30				
Toluene	109	111	83-127	2	30				
Ethylbenzene	112	115	82-129	2	30				
Xylene (Total)	110	112	82-130	2	30				

### Surrogate Quality Control

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

 Analysis Name: TPH-GRO - Waters  
 Batch number: 08102B08A  
 Trifluorotoluene-F

5324218	86
5324220	84
5324221	83
Blank	82
LCS	88
LCSD	90
MS	86

Limits: 63-135

 Analysis Name: TPH-GRO - Waters  
 Batch number: 08107B08A  
 Trifluorotoluene-F

Blank	88
LCS	85
LCSD	86
MS	89
MSD	91

Limits: 63-135

 Analysis Name: BTEX+MTBE by 8260B  
 Batch number: Z081024AA  
 Dibromofluoromethane

5324218	95
Blank	90

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

88
87

93
93

95
91

\*- 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  
Reported: 04/25/08 at 05:32 PM

Group Number: 1085016

### Surrogate Quality Control

	80-116	77-113	80-113	78-113
LCS	90	87	92	93
MS	90	86	92	93
MSD	94	89	93	96
Limits:	80-116	77-113	80-113	78-113
Analysis Name: BTEX+5 Oxygenates+ETOH				
Batch number: Z081061AA				
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5324219	85	85	86	88
5324220	86	84	87	87
5324221	86	83	87	86
Blank	87	84	87	87
LCS	87	85	87	90
MS	87	84	87	89
MSD	86	85	86	88
Limits:	80-116	77-113	80-113	78-113

\*- 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:

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

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

### Inorganic Qualifiers

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