



July 10, 2015

Nicole Arceneaux
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
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Mr. Keith Nowell
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health 11:19 am, Jul 13, 2015

RE: First Semi Annual 2015 Groundwater Monitoring Report
3943 Broadway, Oakland, California 94611
Fuel Leak Case No.: RO0000203

Dear Mr. Nowell,

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact me at (925) 790-6912.

Sincerely,

A handwritten signature in blue ink, appearing to read "Nicole Arceneaux".

Nicole Arceneaux
Union Oil of California – Project Manager

Attachment:
First Semi-Annual 2015 Groundwater Monitoring Report

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject:
Second Semi-Annual 2014 Monitoring Report Submittal

ENVIRONMENT

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), ARCADIS is submitting the enclosed Semi-Annual Groundwater Monitoring Report for the following facility:

Date:
July 10, 2015

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
katherine.brandt@arcadis-us.com

<u>Facility No.</u>	<u>Case No.</u>	<u>Location</u>
0746	RO0000203	3943 Broadway Oakland, California 94611

If you have any questions, please contact Katherine Brandt at 510.596.9675.
Sincerely,

Our ref:
B0047338.2015

ARCADIS



Katherine Brandt
Certified Project Manager, P.G.



Copies:
Mr. Nicole Arceneaux, EMC
Geotracker

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST SEMI-ANNUAL 2015
JULY 10, 2015**

Facility No.: 0746 Address: 3943 Broadway, Oakland, California 94611

Consulting Company/Contact Person/Phone No.: ARCADIS / Katherine Brandt / 510.596.9675

Primary Agency/Contact Person/Regulatory ID No.: Alameda County Department of Environmental Health / Mr. Keith Nowell / Case No. RO0000203

WORK PERFORMED DURING THIS REPORTING PERIOD (First Semi-Annual – 2015) :

1. Gettler-Ryan (G-R) conducted groundwater monitoring and sampling on June 9, 2015. Field data sheets and general procedures are included as **Attachment A**. Eleven (11) groundwater monitoring wells were gauged this monitoring event (MW-1 through MW-7, MW-10, MW-11, MW-12, and RW-1). Ten (10) of those wells were sampled during this monitoring event (MW-1 through MW-4, MW-6, MW-7, MW-10 through MW-12, and RW-1). Well MW-5 was not sampled due to the presence of liquid-phase hydrocarbons (LPH) in the well. MW-8 and MW-9 were not sampled due to access issues.

All groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g; C₆-C₁₂) by United States Environmental Protection Agency (EPA) Method 8015B; and benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), methyl tertiary butyl ether (MTBE), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), and ethanol by EPA Method 8260B.

The site location map, the site plan, and the groundwater contour map are presented on **Figures 1** through **3**. Concentration maps for TPH-g, benzene, and MTBE are on **Figures 4** through **6**. Current Groundwater Gauging and Analytical Results are summarized in **Table 1**, Historic Groundwater Gauging and Analytical Results are summarized in **Table 2**, LPH Recovery Data are summarized in **Table 3**, and Historical Groundwater Results from TRC are included as **Attachment B**. A copy of the laboratory analytical report and chain-of-custody documentation is included as **Attachment C**.

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Second Semi-Annual – 2015):

1. Perform groundwater monitoring and related reporting during the second half 2015.

Current Phase of Project:	<u>Groundwater Monitoring</u>
Site Use:	<u>Active gasoline retail station</u>
Frequency of Sampling:	<u>Groundwater – Semi-Annually</u>
Frequency of Monitoring:	<u>Groundwater – Semi-Annually</u>
LPH Present On-Site:	<u>0.03 feet (MW-5)</u>
Cumulative LPH Recovered to Date:	<u>3.949 gallons</u>
LPH Recovered This Quarter:	<u>0.000 gallons</u>
Bulk Soil Removed to Date:	<u>350 cubic yards during UST removal activities (1989)</u>
Bulk Soil Removed this Quarter:	<u>None</u>
Water Wells or Surface Waters within a 2,000' Radius and Their Respective Directions:	<u>Two irrigation wells located 1,330 feet east and 1,450 feet north of the site; the only surface water body (Glen Echo Creek) was located 1,630 feet southeast of the site</u>
Groundwater Use Designation:	<u>Irrigation</u>
Current Remediation Techniques:	<u>None</u>
Permits for Discharge (No.):	<u>None</u>
Approximate Depth to Groundwater:	<u>7.71 (MW-6) – 14.51 (MW-11) feet below top of casing (ft BTOC) Measured <input checked="" type="checkbox"/> Estimated</u>
Approximate Groundwater Elevation:	<u>63.67 (MW-11) – 72.53 (RW-1) feet relative to mean sea level (ft MSL) Measured <input checked="" type="checkbox"/> Estimated</u>

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST SEMI-ANNUAL 2015
JULY 10, 2015**

Facility No.: 0746 Address: 3943 Broadway, Oakland, California 94611

Groundwater Gradient: 0.036 ft/ft (Magnitude) Southwest (Direction)

DISCUSSION:

Groundwater conditions during the first half 2015 remained generally consistent with previous quarters. The maximum dissolved concentrations of TPH-g (6,500 micrograms per liter [$\mu\text{g/L}$]), benzene (4 $\mu\text{g/L}$), and MTBE (16 $\mu\text{g/L}$) were detected in the sample collected from MW-3. The maximum dissolved concentration of ethylbenzene (11 $\mu\text{g/L}$) was detected in well MW-4. Toluene, total Xylenes, EDB, EDC, and ethanol were not detected above the laboratory reporting limits for all wells sampled.

Groundwater elevations at the site vary by approximately ten feet, creating a hydraulic gradient of 0.036 foot per foot in the southwest direction.

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved hydrocarbon constituent concentrations have remained relatively consistent with previous quarters. ARCADIS will continue groundwater monitoring and monthly product gauging. ARCADIS proposed to install Soakase socks in wells MW-5 and RW-1 to collect the intermittent LPH occurring at the site. G-R was unable to install the sock in MW-5 due to the presence of a skimmer.

ATTACHMENTS:

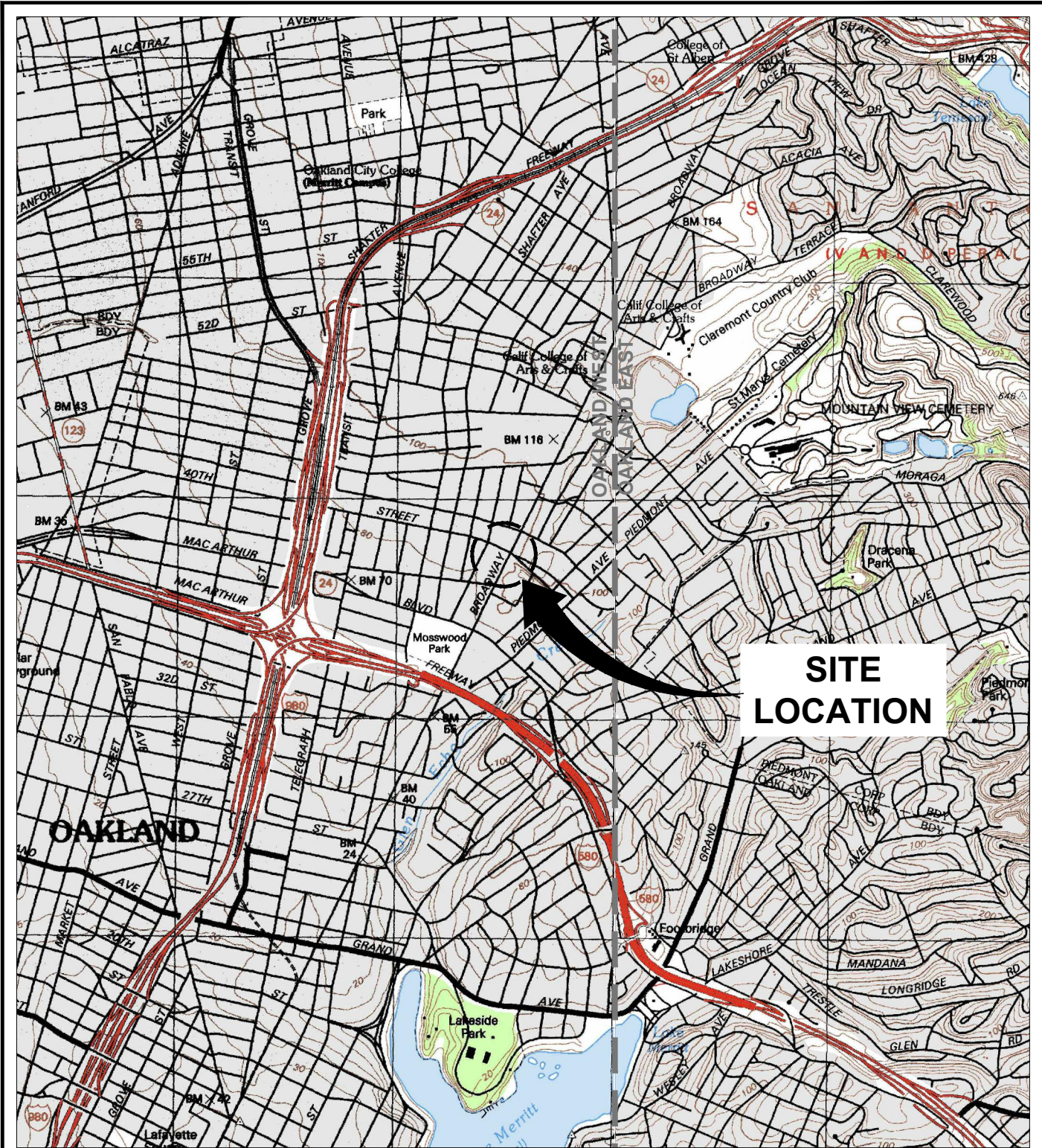
- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Contour Map
- Figure 4: TPH-g Concentration Map
- Figure 5: Benzene Concentration Map
- Figure 6: MTBE Concentration Map

- Table 1: Current Groundwater Gauging and Analytical Results
- Table 2: Historic Groundwater Gauging and Analytical Results
- Table 3: Liquid Phase Hydrocarbon Recovery Data

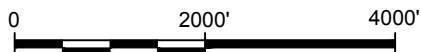
- Attachment A: Field Data Sheets and General Procedures
- Attachment B: Historical Groundwater Results from TRC
- Attachment C: Laboratory Report and Chain-of-Custody Documentation

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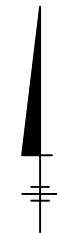
Figures



REFERENCE: BASE MAP USGS 7.5 MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 1993, AND OAKLAND EAST, CALIFORNIA, 1997.



Approximate Scale: 1" = 2000 ft.



UNION OIL
 STATION NO. 0746
 3943 BROADWAY
 OAKLAND, CALIFORNIA

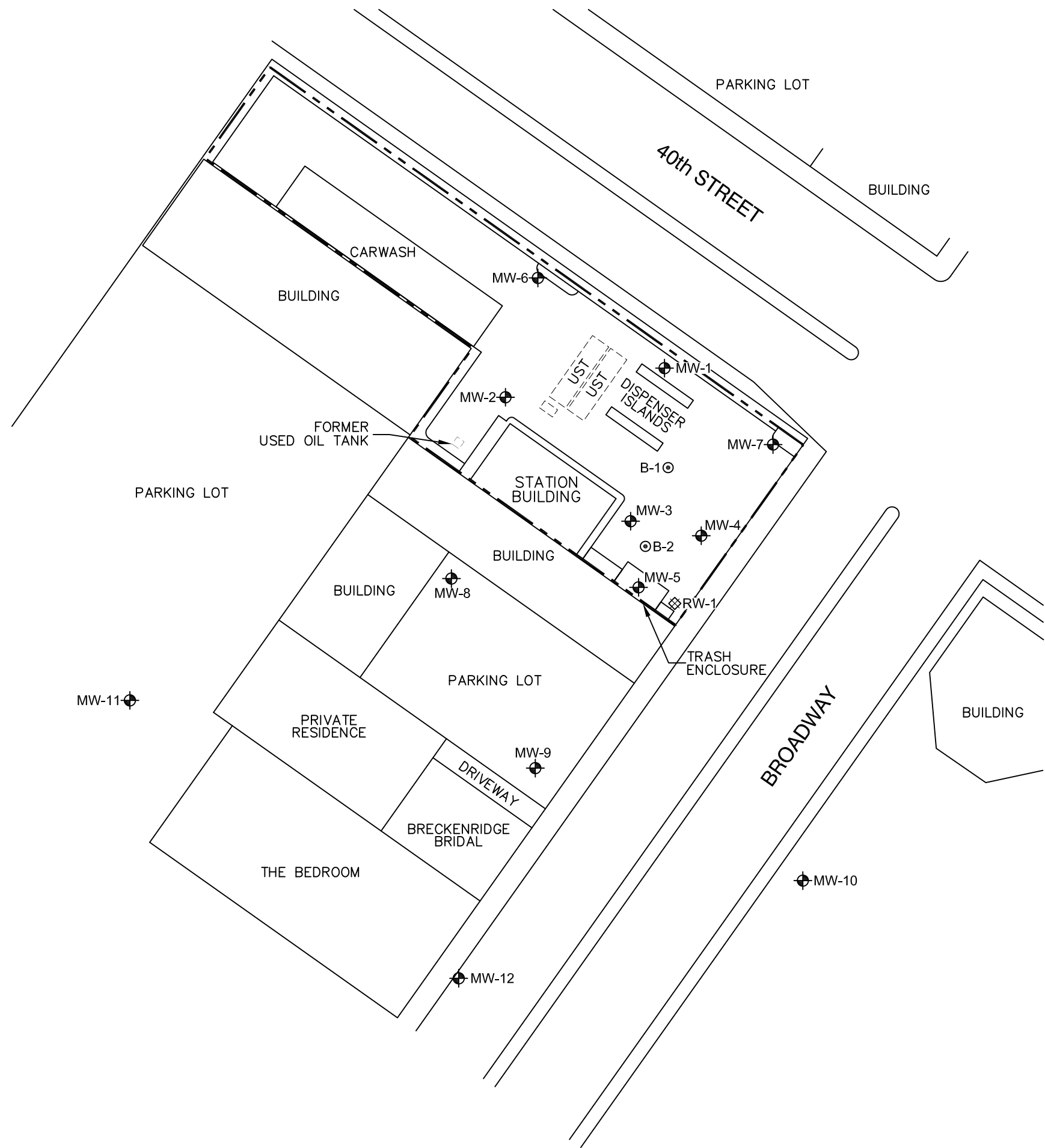
SITE LOCATION MAP



FIGURE
1

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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XREFS: 47338X01
IMAGES:
PROJECTNAME: --



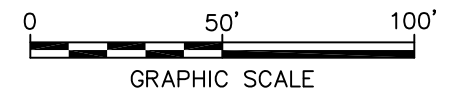
LEGEND

- PROPERTY BOUNDARY
- MW-1 MONITORING WELL
- RW-1 RECOVERY WELL
- B-1 CPT BORING



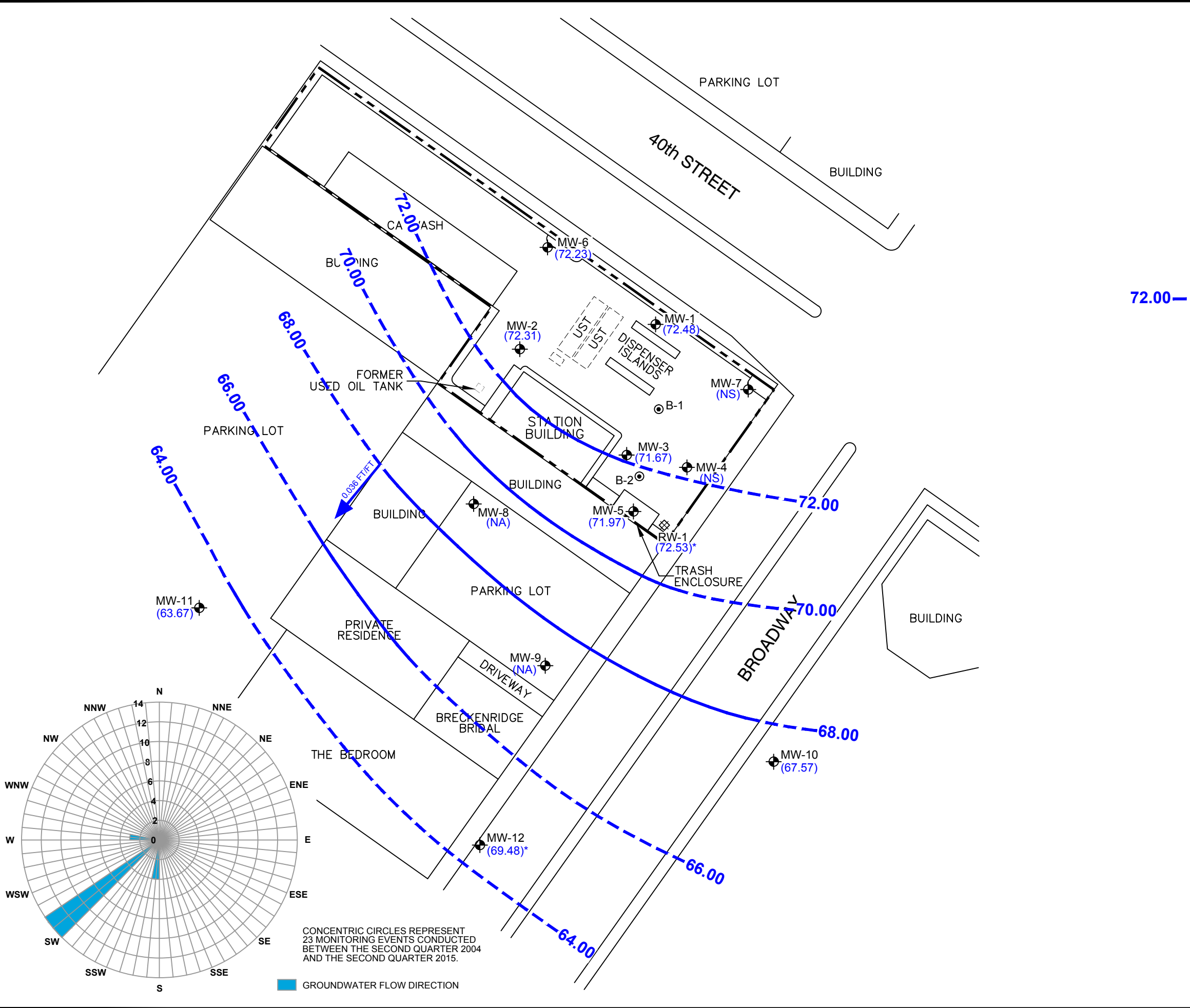
NOTES:

1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 09/14/09, AT A SCALE OF 1"=50'.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.



UNION OIL STATION NO. 0746 3943 BROADWAY OAKLAND, CALIFORNIA	
SITE MAP	
	FIGURE 2

CITY: SAN RAFAEL, CA (Petaluma) DIV: GROUP: ENVCAD DB: J. HARRIS
 C:\Users\jharris\Desktop\ENVCAD\B0047338\2015\GWR01\DWG\47338W01.dwg LAYOUT: 3 SAVED: 1/27/2015 8:08 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/25/2015 5:14 PM BY: HARRIS, JESSICA
 XREFS: IMAGES: PROJECTNAME: 47338W01



- LEGEND**
- PROPERTY BOUNDARY
 - MW-1 MONITORING WELL
 - RW-1 RECOVERY WELL
 - B-1 CPT BORING
 - (72.48) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
 - 72.00 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
 - 0.036 FT/FT GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)
 - (NA) NOT ACCESSIBLE
 - (NS) NOT SURVEYED
 - * NOT USED IN CONTOURING

- NOTES:**
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 09/14/09, AT A SCALE OF 1"=50'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. GROUNDWATER MONITORING WELLS WERE GAUGED AND SAMPLED ON JUNE 9, 2015.
 4. HISTORICAL DATA FOR MW-11 WAS USED FOR CONTOURING.



UNION OIL
 STATION NO. 0746
 3943 BROADWAY
 OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
 CONTOUR MAP**

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FIGURE
3

CONCENTRIC CIRCLES REPRESENT 23 MONITORING EVENTS CONDUCTED BETWEEN THE SECOND QUARTER 2004 AND THE SECOND QUARTER 2015.

GROUNDWATER FLOW DIRECTION

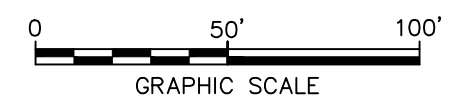
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LEGEND

- PROPERTY BOUNDARY
- MW-1 ◉ MONITORING WELL
- RW-1 ◈ RECOVERY WELL
- B-1 ◉ CPT BORING
- [TPH-g] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C6-C12) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 1,000 - - - - - TPH-g ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT
- [NA] NOT ACCESSIBLE
- [LPH] LIQUID PHASE HYDROCARBON

- NOTES:**
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 09/14/09, AT A SCALE OF 1"=50'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. GROUNDWATER MONITORING WELLS WERE GAUGED AND SAMPLED ON JUNE 9, 2015.



UNION OIL
 STATION NO. 0746
 3943 BROADWAY
 OAKLAND, CALIFORNIA

TPH-g CONCENTRATION MAP

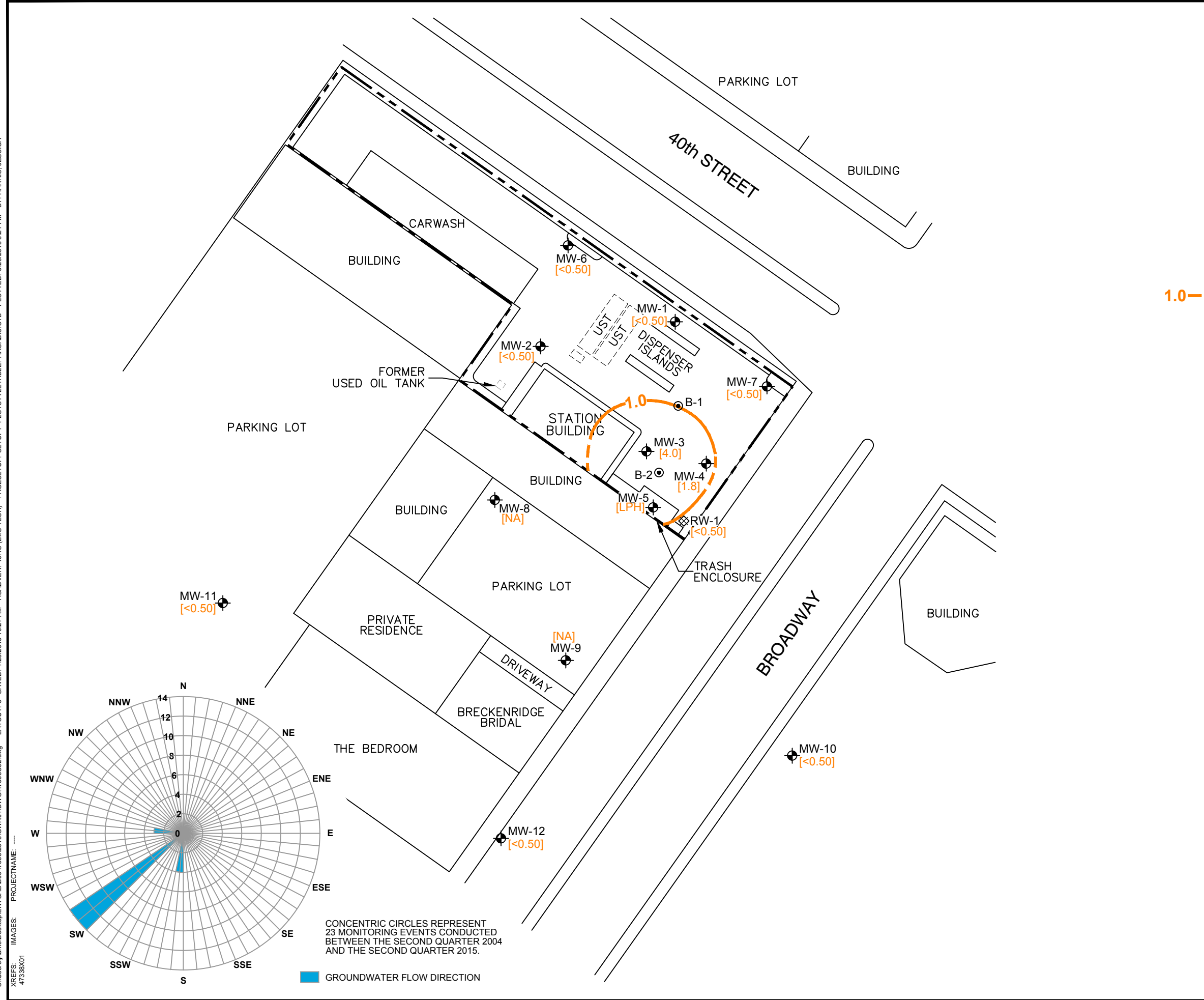
ARCADIS

FIGURE
4

CONCENTRIC CIRCLES REPRESENT 23 MONITORING EVENTS CONDUCTED BETWEEN THE SECOND QUARTER 2004 AND THE SECOND QUARTER 2015.

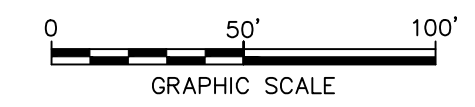
■ GROUNDWATER FLOW DIRECTION

CITY: SAN RAFAEL, CA (PETALUMA) DIV: GROUP: ENVCAD DB: J. HARRIS
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 XREFS: IMAGES: PROJECTNAME: 47338X01



- LEGEND**
- PROPERTY BOUNDARY
 - MW-1 MONITORING WELL
 - RW-1 RECOVERY WELL
 - B-1 CPT BORING
 - [BENZ] BENZENE CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
 - 1.0 BENZENE ISOCONCENTRATION CONTOUR ($\mu\text{g/L}$; DASHED WHERE INFERRED)
 - < DENOTES LESS THAN LABORATORY REPORTING LIMIT
 - [NA] NOT ACCESSIBLE
 - [LPH] LIQUID PHASE HYDROCARBON

- NOTES:**
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 09/14/09, AT A SCALE OF 1"=50'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. GROUNDWATER MONITORING WELLS WERE GAUGED AND SAMPLED ON JUNE 9, 2015.



UNION OIL
 STATION NO. 0746
 3943 BROADWAY
 OAKLAND, CALIFORNIA

BENZENE CONCENTRATION MAP

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FIGURE
5

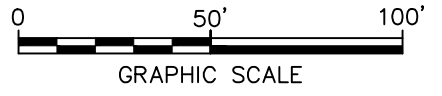
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LEGEND

- PROPERTY BOUNDARY
- MW-1 MONITORING WELL
- RW-1 RECOVERY WELL
- B-1 CPT BORING
- [MTBE]** METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 5** MTBE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- <** DENOTES LESS THAN LABORATORY REPORTING LIMIT
- [NA]** NOT ACCESSIBLE
- [LPH]** LIQUID PHASE HYDROCARBON

- NOTES:**
- BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 09/14/09, AT A SCALE OF 1"=50'.
 - ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 - GROUNDWATER MONITORING WELLS WERE GAUGED AND SAMPLED ON JUNE 9, 2015.



UNION OIL
 STATION NO. 0746
 3943 BROADWAY
 OAKLAND, CALIFORNIA

MTBE CONCENTRATION MAP

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FIGURE
6

CONCENTRIC CIRCLES REPRESENT 23 MONITORING EVENTS CONDUCTED BETWEEN THE SECOND QUARTER 2004 AND THE SECOND QUARTER 2015.

GROUNDWATER FLOW DIRECTION

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Tables

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 0746
3943 Broadway Avenue, Oakland California

Well ID	Date Sampled	TOC (feet MSL)	DTW (feet BTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	Previous Quarter GWE (feet MSL)	Change in Elevation (feet)	TPH-g (8260B)	TPH-g (8015B)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-1	6/9/2015	80.54	8.06	0.00	72.48	74.72	-2.24	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	**
MW-2	6/9/2015	81.32	9.01	0.00	72.31	74.44	-2.13	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-3	6/9/2015	81.41	9.74	0.00	71.67	73.42	-1.75	--	6,500	4	<0.50	<0.50	<1.0	16	<0.50	<0.50	<250	A01, sheen noted in well
MW-4	6/9/2015	--	9.41	0.00	--	--	--	--	2,200	1.8	<0.50	11	<1.0	<0.50	<0.50	<0.50	<250	A01
MW-5	6/9/2015	81.38	9.41	0.03	71.97	74.77	-2.80	--	--	--	--	--	--	--	--	--	--	
MW-6	6/9/2015	79.94	7.71	0.00	72.23	74.40	-2.17	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	6/9/2015	--	8.82	0.00	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-8	6/9/2015	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	6/9/2015	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	6/9/2015	81.61	14.04	0.00	67.57	68.68	-1.11	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-11	6/9/2015	78.18	14.51	0.00	63.67	63.62	0.05	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-12	6/9/2015	79.61	10.13	0.00	69.48	69.85	-0.37	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
RW-1	6/9/2015	80.63	8.10	0.00	72.53	74.82	-2.29	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 0746
3943 Broadway Avenue, Oakland California

Note

Analytical results given in micrograms per liter ($\mu\text{g/l}$) unless otherwise stated

**Sample chromatograph is not representative of gasoline and does not indicate a gasoline release

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
TOC	top of casing (surveyed reference elevation)
feet MSL	feet relative to mean sea level
DTW	depth to water
BTOC	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
GWE	groundwater elevation

Analytes

TPH-g	total petroleum hydrocarbons with gasoline (C6-C12)
MTBE	methyl tertiary butyl ether
EDB	1,2-dibromoethane (same as ethylene dibromide)
EDC	1,2-dichloroethane (same as ethylene dichloride)
8015B	EPA Method 8015B for TPH-g
8260B	EPA Method 8260B for Volatile Organic Compounds

Laboratory Qualifiers

A01	PQL's and MDL's are raised due to sample dilution.
-----	--

Table 2
Historic Groundwater Gauging and Analytical Results
76 Station 0746
3943 Broadway Avenue, Oakland California

Well ID	Date Sampled	TOC (feet MSL)	DTW (feet BTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	Previous Quarter GWE (feet MSL)	Change in Elevation (feet)	TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-1	12/9/2011	80.54	7.97	0.00	72.57	74.29	-1.72	<50	<0.50	<0.50	<0.50	<1.0	4.2	<0.50	<0.50	<250	
MW-1	6/1/2012	80.54	7.63	0.00	72.91	72.57	0.34	<50	<0.50	<0.50	<0.50	<1.0	0.87	<0.50	<0.50	<250	
MW-1	6/6/2013	80.54	7.88	0.00	72.66	72.91	-0.25	<50	<0.50	<0.50	<0.50	<1.0	0.51	<0.50	<0.50	<250	
MW-1	12/13/2013	80.54	8.34	0.00	72.20	72.66	-0.46	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-1	6/23/2014	80.54	8.27	0.00	72.27	72.20	0.07	<50	<0.50	<0.50	<0.50	<1.0	1.3	<0.50	<0.50	<250	
MW-1	12/17/2014	80.54	5.82	0.00	74.72	72.27	2.45	1,100/1,200 ¹	50	8.2	14	230	0.89	<0.50	<0.50	<250	**
MW-1	6/9/2015	80.54	8.06	0.00	72.48	74.72	-2.24	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-2	12/9/2011	81.32	8.95	0.00	72.37	73.57	-1.20	<50	<0.50	<0.50	<0.50	<1.0	7.9	<0.50	<0.50	<250	
MW-2	6/1/2012	81.32	9.18	0.00	72.14	72.37	-0.23	<50	<0.50	<0.50	<0.50	<1.0	2.9	<0.50	<0.50	<250	
MW-2	6/6/2013	81.32	9.40	0.00	71.92	72.14	-0.22	<50	<0.50	<0.50	<0.50	<1.0	0.95	<0.50	<0.50	<250	
MW-2	12/13/2013	81.32	9.68	0.00	71.64	71.92	-0.28	<50	<0.50	<0.50	<0.50	3.1	1.1	<0.50	<0.50	<250	
MW-2	6/23/2014	81.32	9.69	0.00	71.63	71.64	-0.01	<50	<0.50	<0.50	<0.50	<1.0	0.82	<0.50	<0.50	<250	
MW-2	12/17/2014	81.32	6.88	0.00	74.44	71.63	2.81	<50	0.8	<0.50	<0.50	<1.0	0.68	<0.50	<0.50	<250	
MW-2	6/9/2015	81.32	9.01	0.00	72.31	74.44	-2.13	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-3	12/9/2011	81.41	10.08	0.00	71.33	75.31	-3.98	9,900	11	<2.5	98	47	9.3	<2.5	<2.5	<1,200	A01
MW-3	6/1/2012	81.41	9.92	0.00	71.49	71.33	0.16	4,300	4.6	<0.50	17	3.4	19	<0.50	<0.50	<250	A01
MW-3	11/23/2012	81.41	9.78	0.00	71.63	71.49	0.14	2,000	1.3	<0.50	12	<1.0	11	<0.50	<0.50	<250	A01
MW-3	12/13/2013	81.41	10.39	0.00	71.02	71.63	-0.61	1,100	<0.50	<0.50	23	4.2	6	<0.50	<0.50	<250	
MW-3	6/23/2014	81.41	10.28	0.00	71.13	71.02	0.11	4,200	87	<0.50	76	13	7.6	<0.50	<0.50	<250	
MW-3	12/17/2014	81.41	7.99	0.00	73.42	71.13	2.29	8,700/5,900 ¹	35	<0.50	56	4.7	15	<0.50	<0.50	<250	
MW-3	6/9/2015	81.41	9.74	0.00	71.67	73.42	-1.75	6,500	4	<0.50	<0.50	<1.0	16	<0.50	<0.50	<250	A01, sheen noted in well
MW-4	12/9/2011	--	9.04	0.00	--	--	--	1,900	<0.50	<0.50	1.4	<1.0	<0.50	<0.50	<0.50	<250	
MW-4	6/1/2012	--	9.92	0.00	--	--	--	680	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5	<1,200	A01
MW-4	6/6/2013	--	9.17	0.00	--	--	--	410	0.52	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-4	12/13/2013	--	10.05	0.00	--	--	--	3,200	2.1	<0.50	3.2	<1.0	<0.50	<0.50	<0.50	<250	
MW-4	6/23/2014	--	10.28	0.00	--	--	--	2,600	2.5	<0.50	9.1	<1.0	<0.50	<0.50	<0.50	<250	
MW-4	12/17/2014	--	9.32	0.00	--	--	--	1,900/1,800 ¹	4.5	<0.50	9.1	<1.0	0.55	<0.50	<0.50	<250	
MW-4	6/9/2015	--	9.41	0.00	--	--	--	2,200	1.8	<0.50	11	<1.0	<0.50	<0.50	<0.50	<250	A01
MW-5	9/13/2011	81.38	6.70	0.00	74.68	75.95	-1.27	--	--	--	--	--	--	--	--	--	
MW-5	10/21/2011	81.38	6.72	0.00	74.66	75.95	-1.29	--	--	--	--	--	--	--	--	--	
MW-5	11/4/2011	81.38	6.64	0.00	74.74	75.95	-1.21	--	--	--	--	--	--	--	--	--	
MW-5	12/9/2011	81.38	10.02	0.21	71.36	74.66	-3.30	--	--	--	--	--	--	--	--	--	
MW-5	1/12/2012	81.38	10.12	0.02	71.26	71.36	-0.10	--	--	--	--	--	--	--	--	--	
MW-5	6/1/2012	81.38	8.22	0.02	73.16	71.26	1.90	--	--	--	--	--	--	--	--	--	
MW-5	6/6/2013	81.38	9.75	0.00	71.63	73.16	-1.53	30,000	410	7	970	1,300	2.50	<0.50	<0.50	<250	
MW-5	12/13/2013	81.38	10.30	0.21	71.08	71.63	-0.55	--	--	--	--	--	--	--	--	--	
MW-5	6/23/2014	81.38	10.26	0.21	71.12	71.08	0.04	--	--	--	--	--	--	--	--	--	
MW-5	12/17/2014	81.38	6.61	0.03	74.77	71.12	3.65	--	--	--	--	--	--	--	--	--	
MW-5	6/9/2015	81.38	9.41	0.03	71.97	74.77	-2.80	--	--	--	--	--	--	--	--	--	
MW-6	12/9/2011	79.94	6.75	0.00	73.19	73.70	-0.51	<50	<0.50	<0.50	<0.50	<1.0	2.0	<0.50	<0.50	<250	

Table 2
Historic Groundwater Gauging and Analytical Results
76 Station 0746
3943 Broadway Avenue, Oakland California

Well ID	Date	TOC	DTW	LPH	GW	Previous	Change in											Comments
	Sampled	(feet MSL)	(feet BTOC)	Thickness	Elevation	Quarter GWE	Elevation	TPH-g	Benzene	Toluene	Ethyl-	Total	MTBE	EDB	EDC	Ethanol		
MW-6	6/1/2012	79.94	7.32	0.00	72.62	73.19	-0.57	<50	<0.50	<0.50	<0.50	<1.0	0.64	<0.50	<0.50	<250		
MW-6	6/6/2013	79.94	7.50	0.00	72.44	72.62	-0.18	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-6	12/13/2013	79.94	8.02	0.00	71.92	72.44	-0.52	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-6	6/23/2014	79.94	7.87	0.00	72.07	71.92	0.15	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-6	12/17/2014	79.94	5.54	0.00	74.40	72.07	2.33	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-6	6/9/2015	79.94	7.71	0.00	72.23	74.40	-2.17	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-7	12/9/2011	--	8.54	0.00	--	--	--	120	<0.50	<0.50	<0.50	<1.0	4.5	<0.50	<0.50	<250		
MW-7	6/1/2012	--	8.22	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	0.71	<0.50	<0.50	<250		
MW-7	6/6/2013	--	8.56	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-7	12/13/2013	--	9.09	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-7	6/23/2014	--	9.01	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-7	12/17/2014	--	6.95	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-7	6/9/2015	--	8.82	0.00	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-8	12/9/2011	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-8	6/1/2012	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-8	6/6/2013	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-8	12/13/2013	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-8	6/23/2014	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-8	12/17/2014	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-8	6/9/2015	81.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-9	12/9/2011	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-9	6/1/2012	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-9	6/6/2013	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-9	12/13/2013	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-9	6/23/2014	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-9	12/17/2014	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-9	6/9/2015	80.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-10	12/9/2011	81.61	14.41	0.00	67.20	69.25	-2.05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-10	6/1/2012	81.61	12.65	0.00	68.96	67.20	1.76	<50	<0.50	<0.50	<0.50	<1.0	1.1	<0.50	<0.50	<250		
MW-10	6/6/2013	81.61	13.28	0.00	68.33	68.96	-0.63	<50	<0.50	<0.50	<0.50	<1.0	0.92	<0.50	<0.50	<250		
MW-10	12/13/2013	81.61	14.48	0.00	67.13	68.33	-1.20	<50	<0.50	<0.50	<0.50	<1.0	0.92	<0.50	<0.50	<250		
MW-10	6/23/2014	81.61	14.10	0.00	67.51	67.13	0.38	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-10	12/17/2014	81.61	12.93	0.00	68.68	67.51	1.17	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-10	6/9/2015	81.61	14.04	0.00	67.57	68.68	-1.11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-11	12/9/2011	78.18	13.27	0.00	64.91	62.39	2.52	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-11	6/1/2012	78.18	14.50	0.00	63.68	64.91	-1.23	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-11	6/6/2013	78.18	15.32	0.00	62.86	63.68	-0.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-11	12/13/2013	78.18	15.04	0.00	63.14	62.86	0.28	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250		
MW-11	6/23/2014	78.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to access	

Table 2
Historic Groundwater Gauging and Analytical Results
76 Station 0746
3943 Broadway Avenue, Oakland California

Well ID	Date Sampled	TOC (feet MSL)	DTW (feet BTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	Previous Quarter GWE (feet MSL)	Change in Elevation (feet)	TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-11	12/17/2014	78.18	14.56	0.00	63.62	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-11	6/9/2015	78.18	14.51	0.00	63.67	63.62	0.05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-12	12/9/2011	79.61	9.42	0.00	70.19	72.28	-2.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-12	6/1/2012	79.61	10.13	0.00	69.48	70.19	-0.71	<50	<0.50	<0.50	<0.50	<1.0	1.2	<0.50	<0.50	<250	
MW-12	6/6/2013	79.61	9.52	0.00	70.09	69.48	0.61	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-12	12/13/2013	79.61	10.96	0.00	68.65	70.09	-1.44	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-12	6/23/2014	79.61	11.11	0.00	68.50	68.65	-0.15	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-12	12/17/2014	79.61	9.76	0.00	69.85	68.50	1.35	<50	<0.50	<0.50	<0.50	<1.0	0.55	<0.50	<0.50	<250	
MW-12	6/9/2015	79.61	10.13	0.00	69.48	69.85	-0.37	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
RW-1	10/21/2011	80.63	5.45	0.00	75.18	77.02	-1.84	--	--	--	--	--	--	--	--	--	
RW-1	12/9/2011	80.63	9.28	0.00	71.35	75.18	-3.83	2,900	240	1.2	180	30	<0.50	<0.50	<0.50	<250	A01
RW-1	1/12/2012	80.63	9.53	0.00	71.10	71.35	-0.25	--	--	--	--	--	--	--	--	--	
RW-1	6/1/2012	80.63	8.48	0.00	72.15	71.10	1.05	3,600	140	<2.5	56	<5.0	<2.5	<2.5	<2.5	<1,200	A01
RW-1	6/6/2013	80.63	8.73	0.00	71.90	72.15	-0.25	1,300	1.2	1.4	5.8	<1.0	<0.50	<0.50	<0.50	<250	
RW-1	12/13/2013	80.63	9.20	0.00	71.43	71.90	-0.47	150	0.81	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
RW-1	6/23/2014	80.63	9.20	0.00	71.43	71.43	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
RW-1	12/17/2014	80.63	5.81	0.00	74.82	71.43	3.39	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
RW-1	6/9/2015	80.63	8.10	0.00	72.53	74.82	-2.29	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	

Note

Analytical results given in micrograms per liter (µg/l) unless otherwise stated

**Sample chromatograph is not representative of gasoline and does not indicate a gasoline release

¹ TPHg samples were run by 8260B and 8015

Standard Abbreviations

- not analyzed, measured, or collected
- < not detected at or above laboratory detection limit
- TOC top of casing (surveyed reference elevation)
- feet MSL feet relative to mean sea level
- DTW depth to water
- BTOC below top of casing
- LPH liquid-phase hydrocarbons
- GW groundwater
- GWE groundwater elevation

Analytes

- TPH-g total petroleum hydrocarbons with gasoline (C6-C12)
- MTBE methyl tertiary butyl ether
- EDB 1,2-dibromoethane (same as ethylene dibromide)
- EDC 1,2-dichloroethane (same as ethylene dichloride)
- 8015B EPA Method 8015B for TPH-g
- 8260B EPA Method 8260B for Volatile Organic Compounds

Laboratory Qualifiers

- A01 PQL's and MDL's are raised due to sample dilution.

Table 3
Liquid Phase Hydrocarbon Recovery Data
76 Station 0746
3943 Broadway Avenue, Oakland California

Date	MW-5	RW-1
11/11/1998	0.00	0.00
2/22/1999	0.040	0.00
4/2/1999	0.070	0.00
5/4/1999	0.00	0.00
5/20/1999	0.00	0.00
6/29/1999	0.00	0.00
0729/99	0.00	0.00
8/24/1999	0.00	0.00
9/27/1999	0.00	0.00
10/28/1999	0.00	0.00
11/15/1999	0.00	0.00
12/20/1999	0.00	0.00
1/20/2000	0.00	0.00
2/26/2000	0.00	0.00
3/31/2000	0.00	0.00
4/13/2000	0.000	0.00
5/22/2000	0.00	0.00
11/22/2000	0.020	0.00
2/14/2001	0.060	0.00
3/28/2001	0.00	0.00
4/28/2001	0.00	0.00
5/15/2001	0.00	0.00
6/29/2001	0.00	0.00
7/17/2001	0.00	0.00
8/30/2001	0.000	0.00
9/24/2001	0.00	0.00
10/15/2001	0.030	0.00
11/23/2001	0.00	0.00
12/10/2001	0.000	0.00
1/14/2002	0.00	0.00
2/22/2002	0.00	0.00
3/11/2002	0.000	0.00
4/15/2002	0.00	0.00
5/24/2002	0.040	0.00
6/17/2002	0.040	0.00
7/15/2002	0.020	0.00
8/19/2002	0.050	0.00
9/5/2002	0.030	0.00
10/7/2002	0.020	0.00
11/29/2002	0.020	0.00
12/12/2002	0.010	0.00
1/6/2003	0.010	0.00
2/12/2003	0.020	0.00
3/13/2003	0.020	0.00
4/7/2003	0.010	0.00
5/15/2003	0.030	0.00
6/12/2003	0.020	0.00
7/7/2003	0.010	0.00
8/14/2003	0.020	0.00
9/12/2003	0.020	0.00
10/15/2003	0.087	0.000
11/4/2003	0.043	0.000
11/21/2003	0.032	0.000

Table 3
Liquid Phase Hydrocarbon Recovery Data
76 Station 0746
3943 Broadway Avenue, Oakland California

Date	MW-5	RW-1
12/18/2003	0.024	0.000
1/7/2004	0.009	0.000
2/9/2004	0.010	0.010
3/24/2004	0.031	0.000
4/16/2004	0.000	0.000
5/24/2004	0.050	0.000
6/8/2004	0.049	0.000
7/2/2004	0.046	0.000
8/20/2004	0.080	0.000
9/17/2004	0.048	0.000
10/22/2004	0.024	0.000
11/29/2004	0.036	0.000
12/21/2004	0.010	0.000
1/24/2005	0.027	0.000
2/18/2005	0.020	0.000
3/18/2005	0.024	0.000
4/14/2005	0.010	0.000
5/17/2005	0.010	0.000
6/24/2005	0.000	0.000
7/14/2005	0.020	0.000
8/5/2005	0.050	0.000
9/16/2005	0.009	0.000
10/21/2005	0.000	0.000
11/22/2005	0.000	0.000
12/15/2005	0.000	0.000
1/19/2006	0.000	0.000
2/15/2006	0.000	0.000
3/25/2006	0.000	0.000
4/27/2006	0.000	0.000
5/25/2006	0.000	0.000
6/14/2006	0.000	0.000
7/3/2006	0.000	0.000
8/10/2006	0.000	0.000
9/15/2006	0.027	0.000
10/27/2006	0.009	0.000
11/22/2006	0.017	0.000
12/21/2006	0.000	0.000
2/5/2007	0.010	0.000
2/20/2007	0.000	0.000
3/28/2007	0.000	0.000
4/30/2007	0.000	0.000
5/23/2007	0.073	0.000
6/28/2007	0.049	0.000
8/1/2007	0.000	0.000
8/27/2007	0.000	0.000
9/12/2007	0.040	0.000
10/16/2007	0.000	0.000
12/13/2007	0.029	0.000
1/29/2008	0.010	0.000
2/28/2008	0.020	0.000
3/21/2008	0.000	0.000
4/11/2008	0.058	0.000
5/21/2008	0.044	0.000
6/9/2008	0.029	0.000

Table 3
Liquid Phase Hydrocarbon Recovery Data
76 Station 0746
3943 Broadway Avenue, Oakland California

Date	MW-5	RW-1
7/18/2008	0.032	0.000
8/15/2008	0.024	0.000
9/24/2008	0.051	0.000
10/22/2008	0.044	0.000
11/26/2008	0.034	0.000
12/30/2008	0.022	0.000
1/23/2009	NA	0.000
3/27/2009	0.000	0.000
4/28/2009	0.102	0.000
5/28/2009	NA	NA
7/31/2009	0.034	0.000
8/21/2009	0.102	0.000
9/28/2009	0.017	0.000
10/26/2009	0.063	0.000
11/30/2009	0.075	0.000
12/15/2009	0.010	0.000
1/25/2010	0.003	0.000
2/26/2010	0.000	0.000
3/23/2010	0.010	0.000
4/22/2010	0.009	0.000
5/21/2010	0.117	0.000
6/28/2010	0.085	0.000
7/21/2010	0.040	0.000
8/18/2010	0.070	0.000
9/29/2010	0.030	0.000
10/18/2010	0.046	0.000
11/30/2010	0.058	0.000
12/29/2010	0.250	0.000
1/6/2011	0.138	0.000
1/20/2011	0.231	0.000
2/1/2011	0.230	0.000
2/14/2011	0.000	0.000
3/3/2011	0.000	0.000
3/22/2011	0.000	0.000
4/25/2011	0.000	0.000
5/27/2011	0.000	0.000
9/13/2011	0.000	0.000
10/20/2011	0.000	0.000
11/4/2011	0.000	0.000
12/23/2011	0.210	0.000
Total LPH Removed (gallons):	3.909	0.010

LPH removed for 2" casing well = (feet of product)(0.17 gallon/foot)
4" casing well = (feet of product)(0.67 gallon/foot)
6" casing well = (feet of product)(1.5 gallon/foot)

ARCADIS

Attachment A

Field Data Sheets and General Procedures



GETTLER-RYAN INC.



TRANSMITTAL

June 19, 2015
G-R #385648

TO: Ms. Katherine Brandt
ARCADIS
101 Creekside Ridge Court
Suite # 200
Roseville, California 95678

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: **Chevron Facility**
#351647/0746
3943 Broadway
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package First Semi Annual Event of June 9, 2015

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #351647 / 0746**

Site Address: **3943 Broadway**

City: **Oakland, CA**

Job #: **385648**

Event Date: 6/9/15

Sampler: 3H

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	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 Y/N
MW-1	ok	_____	_____	_____	_____	_____	_____	N	N	8" DiversiFlow	N
MW-3	ok	_____	_____	_____	_____	_____	_____	 	 	 	
MW-2	ok	_____	_____	_____	_____	_____					
MW-4	ok	_____	_____	_____	_____	_____					
MW-5	ok	_____	_____	_____	_____	_____					
MW-6	ok	_____	_____	_____	_____	_____					
MW-7	ok	_____	_____	_____	_____	_____					
MW-10	ok	_____	_____	2x3	ok	_____					
MW-11	ok	_____	_____	_____	_____	_____					
MW-12	ok	_____	_____	_____	_____	_____					
RW-1	ok	_____	_____	_____	_____	_____					

Comments sock installed in well RW-1

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.

A laboratory supplied trip blank accompanies each sampling set. 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 Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: SH

Well ID: MW-1
 Well Diameter: (2) 6 in.
 Total Depth: 54.03 ft.
 Depth to Water: 8.06 ft.
45.97 xVF .17 = 7.81

Date Monitored: 6/9/15

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: 23.44 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.25

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer
 Stack Pump X
 Peristaltic Pump
 QED Bladder Pump
 Other:

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer
 Metal Filters
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0640
 Sample Time/Date: 0715 / 6/9/15
 Approx. Flow Rate: 2 gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: cloudy
 Water Color: clean Odor: Y 10
 Sediment Description: none
 Volume: _____ gal. DTW @ Sampling: 1638

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0644</u>	<u>8</u>	<u>7.13</u>	<u>605</u>	<u>20.0</u>		
<u>0648</u>	<u>16</u>	<u>7.02</u>	<u>583</u>	<u>19.8</u>		
<u>0652</u>	<u>24</u>	<u>6.94</u>	<u>571</u>	<u>19.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: 8" Diversified

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
 Site Address: 3943 Broadway Event Date: 6/9/15 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: MW-2 Date Monitored: 6/9/15
 Well Diameter: Ø16 in.
 Total Depth: 19.82 ft.
 Depth to Water: 9.01 ft. Check if water column is less than 0.50 ft.
10.81 xVF .17 = 1.83 x3 case volume = Estimated Purge Volume: 5.51 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.17

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 X
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 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: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 0830 Weather Conditions: cloudy
 Sample Time/Date: 0900 / 6/9/15 Water Color: clear Odor: YIB
 Approx. Flow Rate: - gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / cmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0835</u>	<u>2</u>	<u>7.07</u>	<u>563</u>	<u>19.9</u>	/	/
<u>0840</u>	<u>4</u>	<u>6.95</u>	<u>558</u>	<u>19.7</u>	/	/
<u>0845</u>	<u>5.5</u>	<u>6.89</u>	<u>549</u>	<u>19.6</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: 12" emco

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



GETTLER-RYAN Inc.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: SH

Well ID: MW-3
 Well Diameter: 2/6 in.
 Total Depth: 51.59 ft.
 Depth to Water: 9.74 ft.
41.85 xVF .17 = 7.11

Date Monitored: 6/9/15

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: 21.34 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.11

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0915
 Sample Time/Date: 0950 / 6/9/15
 Approx. Flow Rate: 1-2 gpm.
 Did well de-water? N If yes, Time: _____

Weather Conditions: cloudy
 Water Color: cloudy Odor: 0/1 N STRONG
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: 17.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS probes/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0919</u>	<u>7</u>	<u>6.98</u>	<u>932</u>	<u>19.7</u>	/	/
<u>0923</u>	<u>14</u>	<u>6.90</u>	<u>920</u>	<u>19.8</u>	/	/
<u>0927</u>	<u>21</u>	<u>6.84</u>	<u>905</u>	<u>19.8</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: Sheen in Water
8" Diversified

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



GETTLER-RYAN Inc.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: JH

Well ID: MW-4
 Well Diameter: 8/6 in.
 Total Depth: 49.40 ft.
 Depth to Water: 9.41 ft.
39.99 xVF .17 = 6.79

Date Monitored: 6/9/15

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: 20.39 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.40

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1000
 Sample Time/Date: 1030 / 6/9/15
 Approx. Flow Rate: 2 gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: Cloudy
 Water Color: clean Odor: 0/10 / 1.5 Hr
 Sediment Description: None
 Volume: _____ gal. DTW @ Sampling: 16.82

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1003</u>	<u>6</u>	<u>6.92</u>	<u>894</u>	<u>19.9</u>	/	/
<u>1006</u>	<u>12</u>	<u>6.80</u>	<u>931</u>	<u>19.8</u>	/	/
<u>1000</u>	<u>20</u>	<u>6.69</u>	<u>950</u>	<u>19.7</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: 12" emco

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: SP 3H

Well ID: MW-5
 Well Diameter: 216 in.
 Total Depth: 50.16 ft.
 Depth to Water: 9.10 ft.
41.06 xVF = x3 case volume = Estimated Purge Volume: gal.

Date Monitored: 6/9/15

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

Purge Equipment:

Disposable Bailer /
 Stainless Steel Bailer /
 Stack Pump /
 Peristaltic Pump /
 QED Bladder Pump /
 Other: /

Sampling Equipment:

Disposable Bailer /
 Pressure Bailer /
 Metal Filters /
 Peristaltic Pump /
 QED Bladder Pump /
 Other: /

Time Started:	<u> </u>	(2400 hrs)
Time Completed:	<u> </u>	(2400 hrs)
Depth to Product:	<u>9.07</u>	ft
Depth to Water:	<u>9.10</u>	ft
Hydrocarbon Thickness:	<u>0.03</u>	ft
Visual Confirmation/Description:	<u>lt Yellow / Ambr</u>	
Skimmer / Absorbant Sock (circle one)		
Amt Removed from Skimmer:	<u> </u>	ltr
Amt Removed from Well:	<u> </u>	ltr
Water Removed:	<u> </u>	ltr

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u> </u>	<u>x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

COMMENTS: SPH in Well No Drum on site.
Skimmer in well - unable to install sock Due to Skimmer

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:



GETTLER-RYAN Inc.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: SU

Well ID: MW-6
 Well Diameter: 8/6 in.
 Total Depth: 51.22 ft.
 Depth to Water: 7.71 ft.
43.51 xVF .17 = 7.39

Date Monitored: 6/9/15

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: 22.19 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.41

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0550 Weather Conditions: Cloudy
 Sample Time/Date: 0625 / 6/9/15 Water Color: Cloudy Odor: 0 / N
 Approx. Flow Rate: 2 gpm. Sediment Description: 1.5 ft
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 15.38

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / cmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0554</u>	<u>8</u>	<u>7.44</u>	<u>561</u>	<u>20.1</u>	/	/
<u>0558</u>	<u>16</u>	<u>7.32</u>	<u>583</u>	<u>20.0</u>	/	/
<u>0601</u>	<u>22</u>	<u>7.26</u>	<u>599</u>	<u>19.8</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: 12" emco

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: SH

Well ID: MW-7
 Well Diameter: (2) 6 in.
 Total Depth: 49.26 ft.
 Depth to Water: 8.82 ft.
40.44 xVF

Date Monitored: 6/9/15

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: 20.62 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.90

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0730
 Sample Time/Date: 0815 / 6/9/15
 Approx. Flow Rate: 1-2 gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: Cloudy
 Water Color: Clear Odor: Y / 10
 Sediment Description: None
 Volume: _____ gal. DTW @ Sampling: 16.31

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0733</u>	<u>6</u>	<u>6.90</u>	<u>902</u>	<u>19.8</u>	/	/
<u>0737</u>	<u>14</u>	<u>6.82</u>	<u>879</u>	<u>19.6</u>	/	/
<u>0741</u>	<u>21</u>	<u>6.73</u>	<u>860</u>	<u>19.5</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: 12" emco

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



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: SV

Well ID: MW-10
 Well Diameter: 216 in.
 Total Depth: 21.74 ft.
 Depth to Water: 14.04 ft.
7.70 xVF = 0.17 = 1.30

Date Monitored: 6/9/15

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: 3.92 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.58

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 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:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1140
 Sample Time/Date: 1210 / 6/9/15
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: Cloudy
 Water Color: Clean Odor: Y / 0
 Sediment Description: None
 Volume: _____ gal. DTW @ Sampling: 15.26

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1144</u>	<u>1.5</u>	<u>6.83</u>	<u>588</u>	<u>19.9</u>	/	/
<u>1148</u>	<u>3.0</u>	<u>6.80</u>	<u>564</u>	<u>19.8</u>	/	/
<u>1153</u>	<u>4.0</u>	<u>6.74</u>	<u>579</u>	<u>19.7</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: 8" UNIVERSAL



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: 3H

Well ID: MW-11
 Well Diameter: 8.6 in.
 Total Depth: 19.10 ft.
 Depth to Water: 14.51 ft.
4.59 xVF = .17 = .78

Date Monitored: 6/9/15

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: 2.34 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.42

Purge Equipment:

Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:

Disposable Bailer: X
 Pressure Bailer: _____
 Metal Filters: _____
 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:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1315
 Sample Time/Date: 1345 / 6/9/15
 Approx. Flow Rate: — gpm.
 Did well de-water? no If yes, Time: _____

Weather Conditions: clear
 Water Color: clear Odor: Y/N
 Sediment Description: none
 Volume: _____ gal. DTW @ Sampling: 15.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1317</u>	<u>.75</u>	<u>6.91</u>	<u>872</u>	<u>19.8</u>	/	/
<u>1320</u>	<u>1.5</u>	<u>6.84</u>	<u>895</u>	<u>19.6</u>	/	/
<u>1323</u>	<u>2.5</u>	<u>6.60</u>	<u>906</u>	<u>19.6</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: 8" Universal

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: SH

Well ID: MW-12
 Well Diameter: 216 in.
 Total Depth: 17.65 ft.
 Depth to Water: 10.13 ft.
7.52 xVF = .17 = 1.27

Date Monitored: 6/9/15

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: 3.83 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.63

Purge Equipment:

Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:

Disposable Bailer: X
 Pressure Bailer: _____
 Metal Filters: _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1225
 Sample Time/Date: 1300 / 6/9/15
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: cloudy
 Water Color: cloudy Odor: Y / 10
 Sediment Description: 1.5 hr
 Volume: _____ gal. DTW @ Sampling: 11.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1229</u>	<u>1</u>	<u>7.05</u>	<u>690</u>	<u>19.8</u>	/	/
<u>1233</u>	<u>2.5</u>	<u>6.98</u>	<u>683</u>	<u>19.8</u>	/	/
<u>1237</u>	<u>4.0</u>	<u>6.92</u>	<u>665</u>	<u>19.7</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: 8" BK



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746
 Site Address: 3943 Broadway
 City: Oakland, CA

Job Number: 385648
 Event Date: 6/9/15 (inclusive)
 Sampler: JH

Well ID: RW-1
 Well Diameter: 216 in.
 Total Depth: 16.34 ft.
 Depth to Water: 8.10 ft.
8.24 xVF 1.50 = 12.36

Date Monitored: 6/9/15

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: 37.08 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.74

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: <u>0</u> ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 1045 Weather Conditions: cloudy
 Sample Time/Date: 1120 / 6/9/15 Water Color: clear Odor: ON
 Approx. Flow Rate: 1-3 gpm. Sediment Description: None
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1049</u>	<u>12</u>	<u>6.72</u>	<u>466</u>	<u>18.8</u>	/	/
<u>1053</u>	<u>24</u>	<u>6.65</u>	<u>481</u>	<u>18.9</u>	/	/
<u>1058</u>	<u>37</u>	<u>6.60</u>	<u>505</u>	<u>19.2</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-1</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: 18" emco New 3"x30" New Pig sock installed in well

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



GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: <u>S. Herron</u>	Date: <u>6/9/15</u>	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: <u>RW-1</u>	Weather: <u>cloudy</u>

1. Time absorbent sock removed from well for inspection: N/A

2. Condition of sock:

a. Length of sock showing product saturation: N/A

b. Length of sock showing dryness:

c. Color of sock showing product saturation:

d. Weight of the removed sock:

e. Weight of new/clean/dry sock: 12 oz

f. Difference in weight [(d-e) to 0.01 ounces]: N/A

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled: _____

How full is the drum (%): _____

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product: 0

b. Depth to water: 8.10

c. Thickness of product (b-a): _____






6. Size and type of sock installed: 3"x30" New Pig

7. Comments: _____

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: <u>0746</u>				Union Oil Consultant: <u>Arredo</u>				ANALYSES REQUIRED																	
Site Global ID: <u>T060010171</u>				Consultant Contact: <u>K. Brandt</u>				TPH - Diesel by EPA 8015	TPH - G by COMS (11-12-2000)	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/PC (200)							Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>					
Site Address: <u>2943 Broadway Oakland CA</u>				Consultant Phone No.: <u>510-596-9675</u>										Special Instructions <u>RUN 8 OXYS</u> <u>BY 8:30 PM</u> <u>ALL 8:30 AM TO 8:00 PM</u> <u>THIS</u>											
Union Oil PM: <u>N. ARCEVENUX</u>				Sampling Company: <u>TRC Lab</u>																					
Union Oil PM Phone No.: <u>925-790-6912</u>				Sampled By (PRINT): <u>S. Horro</u>																					
Charge Code: <u>NWRTB-0 251647-0- LAB</u>				Sampler Signature: 																					
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.				BC Laboratories, Inc. Project Manager: <u>Molly Meyers</u> 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911																					
				SAMPLE ID																					
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by COMS (11-12-2000)	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/PC (200)							Notes / Comments							
<u>QA</u>	<u>W-S-A</u>		<u>150609</u>		<u>2</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	
<u>MW-1</u>	<u>W-S-A</u>			<u>0715</u>	<u>6</u>				<input checked="" type="checkbox"/>																
<u>MW-2</u>	<u>W-S-A</u>			<u>0900</u>																					
<u>MW-3</u>	<u>W-S-A</u>			<u>0950</u>																					
<u>MW-4</u>	<u>W-S-A</u>			<u>1030</u>																					
<u>MW-6</u>	<u>W-S-A</u>			<u>0625</u>																					
<u>MW-7</u>	<u>W-S-A</u>			<u>0815</u>																					
<u>MW-10</u>	<u>W-S-A</u>			<u>1210</u>																					
<u>MW-11</u>	<u>W-S-A</u>			<u>1345</u>																					
<u>MW-12</u>	<u>W-S-A</u>			<u>1300</u>																					
<u>RLW-1</u>	<u>W-S-A</u>			<u>1120</u>																					
	<u>W-S-A</u>																								
Relinquished By:  <u>L. Hene</u> Company: <u>L. Hene</u> Date / Time: <u>6/9/15 2000</u>				Relinquished By:  <u>M. H. H. H.</u> Company: <u>TRC Lab</u> Date / Time: <u>06-10-15 1500</u>				Relinquished By: _____ Company: _____ Date / Time: _____																	
Received By:  <u>Garrett</u> Company: <u>TRC Lab</u> Date / Time: _____				Received By:  <u>Molly Bryan</u> Company: <u>BC Lab</u> Date / Time: <u>6-10-15 1500</u>				Received By: _____ Company: _____ Date / Time: _____																	

ARCADIS

Attachment B

Historical Groundwater Results from TRC

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

76 Station 0746

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1														
11/1/1989	--	--	--	--	--	ND	--	ND	ND	ND	0.3	--	--	
2/15/1990	--	--	--	--	--	170	--	7.9	ND	2.2	2.8	--	--	
8/16/1990	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/7/1990	--	--	--	--	--	45	--	ND	ND	ND	ND	--	--	
2/25/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
5/28/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
8/28/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/19/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/6/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
5/23/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
8/26/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/20/1992	--	--	--	--	--	ND	--	0.75	ND	ND	ND	--	--	
12/21/1992	81.07	8.12	0	72.95	--	--	--	--	--	--	--	--	--	
1/30/1993	81.07	7.63	0	73.44	0.49	--	--	--	--	--	--	--	--	
2/24/1993	81.07	7.16	0	73.91	0.47	1100	--	280	4.9	120	140	--	--	
3/22/1993	81.07	6.26	0	74.81	0.90	--	--	--	--	--	--	--	--	
4/28/1993	81.07	7.91	0	73.16	-1.65	--	--	--	--	--	--	--	--	
5/25/1993	81.07	7.87	0	73.20	0.04	260	--	27	4.9	2.6	54	--	--	
6/23/1993	80.54	7.66	0	72.88	-0.32	--	--	--	--	--	--	--	--	
7/22/1993	80.54	7.87	0	72.67	-0.21	--	--	--	--	--	--	--	--	
8/25/1993	80.54	8.00	0	72.54	-0.13	ND	--	ND	ND	ND	ND	--	--	
9/22/1993	80.54	8.10	0	72.44	-0.10	--	--	--	--	--	--	--	--	
10/28/1993	80.54	8.15	0	72.39	-0.05	--	--	--	--	--	--	--	--	
11/30/1993	80.54	7.65	0	72.89	0.50	--	--	--	--	--	--	--	--	Sampled semi-annually
2/16/1994	80.54	7.46	0	73.08	0.19	ND	--	0.84	ND	ND	0.59	--	--	
5/31/1994	80.54	7.80	0	72.74	-0.34	--	--	--	--	--	--	--	--	
8/31/1994	80.54	8.27	0	72.27	-0.47	ND	--	ND	0.98	ND	0.84	--	--	
9/27/1994	80.54	8.37	0	72.17	-0.10	--	--	--	--	--	--	--	--	
10/11/1994	80.54	8.36	0	72.18	0.01	--	--	--	--	--	--	--	--	
11/10/1994	80.54	6.43	0	74.11	1.93	--	--	--	--	--	--	--	--	
2/7/1995	80.54	7.06	0	73.48	-0.63	6100	--	670	ND	120	60	--	--	
5/3/1995	80.54	6.85	0	73.69	0.21	260	--	21	39	17	24	--	--	
8/3/1995	80.54	7.69	0	72.85	-0.84	--	--	--	--	--	--	--	--	
11/7/1995	80.54	8.15	0	72.39	-0.46	ND	--	ND	ND	ND	ND	--	--	
5/6/1996	80.54	7.40	0	73.14	0.75	170	--	1.0	20	2.3	17	55	--	
11/5/1996	80.54	7.90	0	72.64	-0.50	ND	--	ND	ND	ND	ND	5.2	--	
5/15/1997	80.54	7.77	0	72.77	0.13	ND	--	ND	ND	ND	ND	16	--	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

76 Station 0746

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	Ground-LPH Thickness (feet)	Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
11/12/1997	80.54	7.48	0	73.06	0.29	ND	--	ND	ND	ND	ND	11	--	
5/4/1998	80.54	7.39	0	73.15	0.09	ND	--	ND	ND	ND	ND	320	--	
11/11/1998	80.54	7.37	0	73.17	0.02	ND	--	ND	ND	ND	ND	200	--	
5/20/1999	80.54	7.41	0	73.13	-0.04	ND	--	ND	ND	ND	ND	89	47	
11/15/1999	80.54	7.84	0	72.70	-0.43	ND	--	ND	ND	ND	ND	8.12	7.19	
5/22/2000	80.54	7.53	0	73.01	0.31	ND	--	0.89	ND	ND	ND	220	290	
11/22/2000	80.54	7.35	0	73.19	0.18	ND	--	ND	ND	ND	ND	105	142	
5/15/2001	80.54	7.48	0	73.06	-0.13	345	--	ND	3.41	2.77	25.2	178	374	
11/23/2001	80.54	7.57	0	72.97	-0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	350	350	
5/24/2002	80.54	7.10	0	73.44	0.47	70	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	200	240	
11/29/2002	80.54	7.96	0	72.58	-0.86	ND<250	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	330	
5/15/2003	80.54	7.22	0	73.32	0.74	ND<250	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	210	
11/4/2003	80.54	7.94	0	72.60	-0.72	--	120	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	140	
5/24/2004	80.54	7.54	0	73.00	0.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	26	
11/29/2004	80.54	7.27	0	73.27	0.27	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
6/24/2005	80.54	7.06	0	73.48	0.21	--	87	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	80	
12/15/2005	80.54	7.35	0	73.19	-0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
6/14/2006	80.54	7.06	0	73.48	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
12/21/2006	80.54	7.12	0	73.42	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	16	
6/28/2007	80.54	7.79	0	72.75	-0.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	5.6	
12/13/2007	80.54	7.94	0	72.60	-0.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
6/9/2008	80.54	8.00	0	72.54	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	29	
12/30/2008	80.54	7.51	0	73.03	0.49	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.2	
9/28/2009	80.54	8.10	0	72.44	-0.59	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.98	
12/15/2009	80.54	7.32	0	73.22	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/28/2010	80.54	7.80	0	72.74	-0.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.1	
12/29/2010	80.54	6.22	0	74.32	1.58	--	99	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
MW-2														
11/1/1989	--	--	--	--	--	200	--	ND	ND	3.0	1.2	--	--	
2/15/1990	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
8/16/1990	--	--	--	--	--	ND	--	ND	6.7	ND	ND	--	--	
11/7/1990	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/25/1991	--	--	--	--	--	ND	--	0.68	0.42	ND	0.86	--	--	
5/28/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
8/28/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/19/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/6/1992	--	--	--	--	--	ND	--	0.36	0.66	ND	0.62	--	--	
5/23/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
4/8/1993	82.01	9.14	0.02	72.89	-0.33	--	--	--	--	--	--	--	--	LPH in well
4/28/1993	82.01	9.44	0.03	72.59	-0.29	--	--	--	--	--	--	--	--	LPH in well
5/12/1993	82.01	9.57	0.03	72.46	-0.13	--	--	--	--	--	--	--	--	LPH in well
5/25/1993	82.01	9.45	0.03	72.58	0.12	--	--	--	--	--	--	--	--	LPH in well
6/7/1993	81.41	8.94	0	72.47	-0.11	--	--	--	--	--	--	--	--	
6/23/1993	81.41	9.20	0.02	72.23	-0.24	--	--	--	--	--	--	--	--	LPH in well
7/8/1993	81.41	9.31	0.03	72.12	-0.10	--	--	--	--	--	--	--	--	LPH in well
7/22/1993	81.41	9.47	0	71.94	-0.18	--	--	--	--	--	--	--	--	
8/11/1993	81.41	9.59	0	71.82	-0.12	--	--	--	--	--	--	--	--	
8/25/1993	81.41	9.67	0.03	71.76	-0.06	--	--	--	--	--	--	--	--	LPH in well
9/8/1993	81.41	10.34	0	71.07	-0.69	--	--	--	--	--	--	--	--	
9/22/1993	81.41	9.84	0.02	71.59	0.51	--	--	--	--	--	--	--	--	LPH in well
10/7/1993	81.41	9.87	0	71.54	-0.05	--	--	--	--	--	--	--	--	
10/28/1993	81.41	10.03	0	71.38	-0.16	--	--	--	--	--	--	--	--	
11/12/1993	81.41	9.76	0	71.65	0.27	--	--	--	--	--	--	--	--	
11/30/1993	81.41	9.66	0.02	71.76	0.11	--	--	--	--	--	--	--	--	LPH in well
2/16/1994	81.41	8.87	0	72.54	0.78	57000	--	910	2500	2100	9000	--	--	Sheen
5/31/1994	81.41	9.48	0	71.93	-0.61	39000	--	670	630	1500	6200	--	--	
8/31/1994	81.41	10.08	0	71.33	-0.60	44000	--	500	240	1400	5700	--	--	
9/24/1994	81.41	10.22	0	71.19	-0.14	--	--	--	--	--	--	--	--	
10/11/1994	81.41	10.41	0.01	71.01	-0.18	--	--	--	--	--	--	--	--	LPH in well
11/10/1994	81.41	7.47	0	73.94	2.93	86000	--	3300	3800	1800	8300	--	--	Sheen
2/7/1995	81.41	8.05	0	73.36	-0.58	45000	--	1400	1300	1500	5600	--	--	
3/14/1995	81.41	7.05	0	74.36	1.00	--	--	--	--	--	--	--	--	
5/3/1995	81.41	7.91	0	73.50	-0.86	26000	--	740	990	1100	4400	--	--	
8/3/1995	81.41	9.28	0	72.13	-1.37	18000	--	59	ND	530	1900	--	--	
8/19/1995	81.41	--	0	--	--	--	--	--	--	--	--	--	--	
11/7/1995	81.41	10.79	0	70.62	--	17000	--	110	26	400	1500	880	--	
5/6/1996	81.41	9.44	0	71.97	1.35	5100	--	48	ND	87	210	370	--	Sheen
11/5/1996	81.41	10.64	0	70.77	-1.20	35000	--	2200	ND	1200	2800	460	--	
5/15/1997	81.41	9.61	0	71.80	1.03	2400	--	110	ND	ND	140	100	--	
11/12/1997	81.41	9.18	0	72.23	0.43	29000	--	2000	ND	1800	3000	ND	--	
5/4/1998	81.41	9.50	0	71.91	-0.32	8200	--	430	ND	310	320	ND	--	
11/11/1998	81.41	9.25	0	72.16	0.25	8700	--	500	ND	330	310	ND	--	
5/20/1999	81.41	8.95	0	72.46	0.30	4300	--	250	ND	ND	86	ND	--	
11/15/1999	81.41	10.35	0	71.06	-1.40	6720	--	326	ND	398	226	120	45.1	
5/22/2000	81.41	9.14	0	72.27	1.21	4000	--	99	4.5	190	75	100	94	
11/22/2000	81.41	9.33	0	72.08	-0.19	6130	--	93.7	6.71	174	47.8	212	131	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/22/1993	81.29	9.26	0	72.03	-0.36	--	--	--	--	--	--	--	--	
8/25/1993	81.29	9.45	0	71.84	-0.19	640	--	100	1.1	100	22	--	--	
9/22/1993	81.29	9.63	0	71.66	-0.18	--	--	--	--	--	--	--	--	
10/28/1993	81.29	9.62	0	71.67	0.01	--	--	--	--	--	--	--	--	
11/30/1993	81.29	9.40	0	71.89	0.22	200	--	28	ND	17	8.1	--	--	
12/21/1993	81.48	9.10	0	72.38	0.49	--	--	--	--	--	--	--	--	
2/16/1994	81.29	9.21	0	72.08	-0.30	190	--	11	0.98	21	6.6	--	--	
5/31/1994	81.29	9.11	0	72.18	0.10	1100	--	190	ND	100	58	--	--	
8/31/1994	81.29	10.01	0	71.28	-0.90	400	--	17	0.94	14	5.2	--	--	
9/27/1994	81.29	10.09	0	71.20	-0.08	--	--	--	--	--	--	--	--	
10/11/1994	81.29	11.50	0	69.79	-1.41	--	--	--	--	--	--	--	--	
11/10/1994	81.29	9.21	0	72.08	2.29	7700	--	1800	280	460	1300	--	--	
2/7/1995	81.29	7.66	0	73.63	1.55	540	--	47	ND	17	2.5	--	--	
5/3/1995	81.29	8.29	0	73.00	-0.63	160	--	8.3	0.52	1.5	3.7	--	--	
8/3/1995	81.29	8.60	0	72.69	-0.31	57	--	2.0	ND	ND	ND	--	--	
8/19/1995	81.29	--	0	--	--	--	--	--	--	--	--	--	--	
11/7/1995	81.29	10.28	0	71.01	--	ND	--	0.71	ND	ND	ND	0.86	--	
5/6/1996	81.29	8.70	0	72.59	1.58	1200	--	12	11	15	36	ND	--	
11/5/1996	81.29	10.00	0	71.29	-1.30	700	--	32	0.71	1.8	1.3	6.5	--	
5/15/1997	81.29	9.37	0	71.92	0.63	51	--	ND	ND	ND	ND	ND	ND	
11/12/1997	81.29	8.92	0	72.37	0.45	74	--	1.7	ND	ND	ND	ND	ND	
5/4/1998	81.29	9.48	0	71.81	-0.56	ND	--	ND	ND	ND	ND	ND	ND	
11/11/1998	81.29	9.13	0	72.16	0.35	ND	--	0.63	ND	ND	ND	ND	ND	
5/20/1999	81.29	8.41	0	72.88	0.72	ND	--	ND	ND	ND	ND	ND	ND	
11/15/1999	81.29	9.68	0	71.61	-1.27	ND	--	ND	ND	ND	ND	ND	ND	
5/22/2000	81.29	8.60	0	72.69	1.08	ND	--	ND	ND	ND	ND	ND	ND	
11/22/2000	81.29	8.91	0	72.38	-0.31	ND	--	ND	ND	ND	ND	ND	ND	
5/15/2001	81.29	8.66	0	72.63	0.25	ND	--	ND	1.10	ND	1.16	ND	ND	
11/23/2001	81.29	8.84	0	72.45	-0.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
5/24/2002	81.29	7.93	0	73.36	0.91	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.6	3.5	
11/29/2002	81.29	9.34	0	71.95	-1.41	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
5/15/2003	81.29	7.87	0	73.42	1.47	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/4/2003	81.48	9.45	0	72.03	-1.39	--	61	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/24/2004	81.48	8.49	0	72.99	0.96	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/29/2004	81.48	9.01	0	72.47	-0.52	--	120	ND<0.50	ND<0.50	0.52	ND<1.0	--	0.55	
6/24/2005	81.48	7.81	0	73.67	1.20	--	90	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/15/2005	81.48	8.73	0	72.75	-0.92	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.65	
6/14/2006	81.48	7.43	0	74.05	1.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

**Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	Ground- LPH Thickness (feet)	Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
11/29/2004	81.38	9.16	0.21	72.38	0.14	--	--	--	--	--	--	--	--	LPH in well
6/24/2005	81.38	8.41	0	72.97	0.59	--	53000	560	230	1600	5100	--	82	
12/15/2005	81.38	8.96	0	72.42	-0.55	--	27000	130	ND<25	560	1800	--	120	
6/14/2006	81.38	8.41	0	72.97	0.55	--	11000	110	ND<12	360	640	--	48	
12/21/2006	81.38	9.65	0	71.73	-1.24	--	78000	490	43	1400	4300	--	96	
6/28/2007	81.38	9.99	0.29	71.61	-0.12	--	--	--	--	--	--	--	--	LPH in well
12/13/2007	81.38	10.12	0.17	71.39	-0.22	--	--	--	--	--	--	--	--	LPH in well
6/9/2008	81.38	10.12	0.17	71.39	0.00	--	--	--	--	--	--	--	--	LPH in well
12/30/2008	81.38	9.33	0.13	72.15	0.76	--	--	--	--	--	--	--	--	LPH in well
9/28/2009	81.38	9.77	0.01	71.62	-0.53	--	--	--	--	--	--	--	--	LPH in well
12/15/2009	81.38	8.87	0.01	72.52	0.90	--	--	--	--	--	--	--	--	LPH in well
6/28/2010	81.38	9.82	0.5	71.93	-0.58	--	--	--	--	--	--	--	--	LPH in well
12/29/2010	81.38	8.69	1.49	73.81	1.87	--	--	--	--	--	--	--	--	LPH in well
MW-6														
11/7/1990	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/25/1991	--	--	--	--	--	ND	--	0.37	0.4	0.35	1.5	--	--	
5/28/1991	--	--	--	--	--	ND	--	ND	ND	ND	0.42	--	--	
8/28/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/19/1991	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/6/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
5/23/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
8/26/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/20/1992	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
12/21/1992	80.47	7.71	0	72.76	--	--	--	--	--	--	--	--	--	
1/30/1993	80.47	7.25	0	73.22	0.46	--	--	--	--	--	--	--	--	
2/24/1993	80.47	6.74	0	73.73	0.51	ND	--	ND	ND	ND	ND	--	--	
3/22/1993	80.47	5.85	0	74.62	0.89	--	--	--	--	--	--	--	--	
4/28/1993	80.47	7.58	0	72.89	-1.73	--	--	--	--	--	--	--	--	
5/25/1993	80.47	7.48	0	72.99	0.10	ND	--	ND	ND	ND	ND	--	--	
6/23/1993	79.94	7.34	0	72.60	-0.39	--	--	--	--	--	--	--	--	
7/22/1993	79.94	7.53	0	72.41	-0.19	--	--	--	--	--	--	--	--	
8/25/1993	79.94	7.66	0	72.28	-0.13	ND	--	ND	ND	ND	ND	--	--	
9/22/1993	79.94	7.76	0	72.18	-0.10	--	--	--	--	--	--	--	--	
10/28/1993	79.94	8.30	0	71.64	-0.54	--	--	--	--	--	--	--	--	
11/30/1993	79.94	7.40	0	72.54	0.90	--	--	--	--	--	--	--	--	
2/16/1994	79.94	7.13	0	72.81	0.27	ND	--	ND	ND	ND	ND	--	--	
5/31/1994	79.94	7.49	0	72.45	-0.36	--	--	--	--	--	--	--	--	
8/31/1994	79.94	7.93	0	72.01	-0.44	ND	--	ND	1.5	ND	1.6	--	--	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
9/27/1994	79.94	8.03	0	71.91	-0.10	--	--	--	--	--	--	--	--	
10/11/1994	79.94	8.05	0	71.89	-0.02	--	--	--	--	--	--	--	--	
11/10/1994	79.94	6.12	0	73.82	1.93	--	--	--	--	--	--	--	--	
2/7/1995	79.94	6.65	0	73.29	-0.53	ND	--	ND	ND	ND	ND	--	--	
5/3/1995	79.94	6.47	0	73.47	0.18	ND	--	ND	ND	ND	1.0	--	--	
8/3/1995	79.94	7.28	0	72.66	-0.81	--	--	--	--	--	--	--	--	
11/7/1995	79.94	7.98	0	71.96	-0.70	ND	--	ND	ND	ND	ND	--	--	
5/6/1996	79.94	7.80	0	72.14	0.18	--	--	--	--	--	--	--	--	
11/5/1996	79.94	7.63	0	72.31	0.17	--	--	--	--	--	--	--	--	
5/15/1997	79.94	7.41	0	72.53	0.22	--	--	--	--	--	--	--	--	
11/12/1997	79.94	7.51	0	72.43	-0.10	--	--	--	--	--	--	--	--	
5/4/1998	79.94	7.15	0	72.79	0.36	--	--	--	--	--	--	--	--	
11/11/1998	79.94	7.04	0	72.90	0.11	--	--	--	--	--	--	--	--	
5/20/1999	79.94	7.00	0	72.94	0.04	--	--	--	--	--	--	--	--	
11/15/1999	79.94	7.42	0	72.52	-0.42	--	--	--	--	--	--	--	--	
5/22/2000	79.94	7.24	0	72.70	0.18	--	--	--	--	--	--	--	--	
11/22/2000	79.94	7.40	0	72.54	-0.16	--	--	--	--	--	--	--	--	
5/15/2001	79.94	7.12	0	72.82	0.28	--	--	--	--	--	--	--	--	
11/23/2001	79.94	7.19	0	72.75	-0.07	--	--	--	--	--	--	--	--	
5/24/2002	79.94	6.54	0	73.40	0.65	--	--	--	--	--	--	--	--	
11/29/2002	79.94	7.26	0	72.68	-0.72	--	--	--	--	--	--	--	--	
5/15/2003	79.94	6.26	0	73.68	1.00	--	--	--	--	--	--	--	--	
11/4/2003	79.94	7.80	0	72.14	-1.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	
5/24/2004	79.94	7.54	0	72.40	0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
11/29/2004	79.94	7.01	0	72.93	0.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.8	
6/24/2005	79.94	7.68	0	72.26	-0.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.47	
12/15/2005	79.94	7.49	0	72.45	0.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.88	
6/14/2006	79.94	6.45	0	73.49	1.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.0	
12/21/2006	79.94	6.91	0	73.03	-0.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	
6/28/2007	79.94	7.46	0	72.48	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.2	
12/13/2007	79.94	7.41	0	72.53	0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.64	
6/9/2008	79.94	8.20	0	71.74	-0.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.65	
12/30/2008	79.94	7.47	0	72.47	0.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/28/2009	79.94	7.96	0	71.98	-0.49	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.67	
12/15/2009	79.94	7.22	0	72.72	0.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/28/2010	79.94	7.68	0	72.26	-0.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/2010	79.94	5.93	0	74.01	1.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

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**Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
3/9/1993	81.71	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
3/22/1993	81.71	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
4/8/1993	81.71	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
4/28/1993	81.71	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
5/12/1993	81.71	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
5/25/1993	81.71	10.12	0	71.59	--	1200	--	5.4	ND	9.0	21	--	--	
6/7/1993	81.41	9.98	0	71.43	-0.16	--	--	--	--	--	--	--	--	
6/23/1993	81.41	10.36	0	71.05	-0.38	--	--	--	--	--	--	--	--	
7/8/1993	81.41	10.52	0	70.89	-0.16	--	--	--	--	--	--	--	--	
7/22/1993	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
8/11/1993	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
8/25/1993	81.41	10.95	0	70.46	--	1800	--	11	17	8.9	29	--	--	
9/8/1993	81.41	11.34	0	70.07	-0.39	--	--	--	--	--	--	--	--	
9/22/1993	81.41	11.13	0	70.28	0.21	--	--	--	--	--	--	--	--	
10/7/1993	81.41	10.96	0	70.45	0.17	--	--	--	--	--	--	--	--	
10/28/1993	81.41	11.19	0	70.22	-0.23	--	--	--	--	--	--	--	--	
11/12/1993	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
11/30/1993	81.41	10.42	0	70.99	--	3500	--	18	ND	ND	ND	--	--	
2/16/1994	81.41	9.86	0	71.55	0.56	990	--	4.9	1.8	2.4	4.5	--	--	
5/31/1994	81.41	10.61	0	70.80	-0.75	350	--	3.0	1.0	0.73	1.7	--	--	
8/31/1994	81.41	11.37	0	70.04	-0.76	1800	--	ND	ND	ND	ND	--	--	
9/27/1994	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
10/11/1994	81.41	11.50	0	69.91	--	--	--	--	--	--	--	--	--	
11/10/1994	81.41	7.81	0	73.60	3.69	940	--	6.7	6.3	ND	16	--	--	
2/7/1995	81.41	8.69	0	72.72	-0.88	230	--	1.4	0.95	0.9	1.1	--	--	
5/3/1995	81.41	8.60	0	72.81	0.09	75	--	ND	ND	ND	1.0	--	--	
8/3/1995	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
11/7/1995	81.41	11.05	0	70.36	--	210	--	1.3	1.2	ND	ND	--	--	
5/6/1996	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
11/5/1996	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
5/15/1997	81.41	10.46	0	70.95	--	ND	--	ND	ND	ND	ND	43	--	
11/12/1997	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
5/4/1998	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
11/11/1998	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
5/20/1999	81.41	9.75	0	71.66	--	ND	--	ND	ND	ND	ND	23	10	
11/15/1999	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
5/22/2000	81.41	9.80	0	71.61	--	ND	--	ND	1.9	ND	3.3	ND	--	
11/22/2000	81.41	9.76	0	71.65	0.04	ND	--	ND	1.16	ND	1.22	ND	--	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

76 Station 0746

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
8/25/1993	80.53	10.44	0	70.09	-0.34	220	--	10	ND	6.8	1.4	--	--	
9/22/1993	80.53	10.64	0	69.89	-0.20	--	--	--	--	--	--	--	--	
10/28/1993	80.53	10.68	0	69.85	-0.04	--	--	--	--	--	--	--	--	
11/30/1993	80.53	9.87	0	70.66	0.81	200	--	5.6	ND	2.9	2.7	--	--	
2/16/1994	80.53	9.21	0	71.32	0.66	250	--	5.1	1.3	4.4	1.5	--	--	
5/31/1994	80.53	10.15	0	70.38	-0.94	360	--	7.8	0.97	4.6	2.2	--	--	
8/31/1994	80.53	10.97	0	69.56	-0.82	650	--	7.7	2.8	4.4	5.0	59	--	
9/27/1994	80.53	11.10	0	69.43	-0.13	--	--	--	--	--	--	--	--	
10/11/1994	80.53	11.20	0	69.33	-0.10	--	--	--	--	--	--	--	--	
11/10/1994	80.53	7.25	0	73.28	3.95	ND	--	ND	ND	ND	ND	--	--	
2/7/1995	80.53	7.76	0	72.77	-0.51	57	--	0.7	ND	0.86	ND	--	--	
5/3/1995	80.53	7.82	0	72.71	-0.06	ND	--	0.85	0.67	1.3	1.0	--	--	
8/3/1995	80.53	9.70	0	70.83	-1.88	91	--	1.1	ND	ND	ND	--	--	
11/7/1995	80.53	10.64	0	69.89	-0.94	130	--	1.5	0.62	0.71	ND	60	--	
5/6/1996	80.53	9.01	0	71.52	1.63	860	--	6.1	13	6.0	25	ND	--	
11/5/1996	80.53	11.42	0	69.11	-2.41	84	--	0.74	ND	1.2	4.5	ND	--	
5/15/1997	80.53	9.89	0	70.64	1.53	ND	--	ND	ND	ND	ND	ND	--	
11/12/1997	80.53	10.22	0	70.31	-0.33	ND	--	0.55	ND	ND	ND	74	--	
5/4/1998	80.53	10.05	0	70.48	0.17	ND	--	ND	ND	ND	ND	45	--	
11/11/1998	80.53	9.23	0	71.30	0.82	ND	--	ND	ND	ND	ND	ND	--	
5/20/1999	80.53	8.78	0	71.75	0.45	ND	--	ND	ND	ND	ND	ND	--	
11/15/1999	80.53	9.12	0	71.41	-0.34	ND	--	ND	ND	ND	ND	ND	--	
5/22/2000	80.53	9.17	0	71.36	-0.05	ND	--	ND	1.9	ND	3.5	ND	--	
11/22/2000	80.53	9.08	0	71.45	0.09	ND	--	ND	1.18	ND	1.16	ND	--	
5/15/2001	80.53	8.85	0	71.68	0.23	ND	--	ND	ND	ND	ND	ND	--	
11/23/2001	80.53	9.10	0	71.43	-0.25	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
5/24/2002	80.53	8.79	0	71.74	0.31	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
11/29/2002	80.53	9.24	0	71.29	-0.45	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/15/2003	80.53	8.56	0	71.97	0.68	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/4/2003	80.53	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
5/24/2004	80.53	9.38	0	71.15	--	--	330	1.8	ND<0.50	ND<0.50	ND<1.0	--	160	
11/29/2004	80.53	9.55	0	70.98	-0.17	--	690	0.72	ND<0.50	1.3	ND<1.0	--	160	
6/24/2005	80.53	8.65	0	71.88	0.90	--	240	0.80	ND<0.50	0.55	ND<1.0	--	67	
12/15/2005	80.53	9.43	0	71.10	-0.78	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	82	
6/14/2006	80.53	9.43	0	71.10	0.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
12/21/2006	80.53	9.01	0	71.52	0.42	--	580	ND<0.50	ND<0.50	0.71	ND<0.50	--	36	
6/28/2007	80.53	11.64	0	68.89	-2.63	--	1200	0.81	ND<0.50	ND<0.50	0.54	--	52	
12/13/2007	80.53	11.18	0	69.35	0.46	--	1100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	31	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	Ground-LPH Thickness (feet)	Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
8/25/1993	78.18	14.10	0	64.08	1.36	ND	--	ND	ND	ND	ND	--	--	
9/22/1993	78.18	15.03	0	63.15	-0.93	--	--	--	--	--	--	--	--	
10/28/1993	78.18	13.84	0	64.34	1.19	--	--	--	--	--	--	--	--	
11/30/1993	78.18	13.04	0	65.14	0.80	ND	--	ND	ND	ND	ND	--	--	
2/16/1994	78.18	12.76	0	65.42	0.28	ND	--	ND	ND	ND	ND	--	--	
5/31/1994	78.18	12.79	0	65.39	-0.03	ND	--	ND	ND	ND	ND	--	--	
8/31/1994	78.18	12.97	0	65.21	-0.18	ND	--	ND	1.5	ND	1.8	--	--	
9/27/1994	78.18	14.88	0	63.30	-1.91	--	--	--	--	--	--	--	--	
10/11/1994	78.18	13.40	0	64.78	1.48	--	--	--	--	--	--	--	--	
11/10/1994	78.18	13.57	0	64.61	-0.17	ND	--	ND	ND	ND	ND	--	--	
2/7/1995	78.18	12.28	0	65.90	1.29	--	--	--	--	--	--	--	--	Sampled semi-annually
5/3/1995	78.18	9.28	0	68.90	3.00	ND	--	ND	ND	ND	ND	--	--	
8/3/1995	78.18	12.67	0	65.51	-3.39	--	--	--	--	--	--	--	--	
11/7/1995	78.18	12.28	0	65.90	0.39	ND	--	ND	ND	ND	ND	--	--	
5/6/1996	78.18	13.30	0	64.88	-1.02	--	--	--	--	--	--	--	--	Sampling discontinued
11/5/1996	78.18	10.90	0	67.28	2.40	--	--	--	--	--	--	--	--	
5/15/1997	78.18	11.65	0	66.53	-0.75	--	--	--	--	--	--	--	--	
11/12/1997	78.18	9.66	0	68.52	1.99	--	--	--	--	--	--	--	--	
5/4/1998	78.18	10.87	0	67.31	-1.21	--	--	--	--	--	--	--	--	
11/11/1998	78.18	11.40	0	66.78	-0.53	--	--	--	--	--	--	--	--	
5/20/1999	78.18	10.71	0	67.47	0.69	ND	--	ND	ND	ND	ND	ND	--	
11/15/1999	78.18	11.32	0	66.86	-0.61	ND	--	ND	1.04	ND	ND	ND	--	
5/22/2000	78.18	10.98	0	67.20	0.34	ND	--	ND	ND	ND	ND	ND	--	
11/22/2000	78.18	11.17	0	67.01	-0.19	ND	--	ND	ND	ND	ND	ND	--	
5/15/2001	78.18	10.93	0	67.25	0.24	ND	--	ND	ND	ND	ND	ND	--	
11/23/2001	78.18	11.08	0	67.10	-0.15	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
5/24/2002	78.18	10.58	0	67.60	0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
11/29/2002	78.18	11.27	0	66.91	-0.69	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/15/2003	78.18	10.25	0	67.93	1.02	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/4/2003	78.18	11.23	0	66.95	-0.98	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/24/2004	78.18	10.10	0	68.08	1.13	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/29/2004	78.18	10.96	0	67.22	-0.86	--	63	ND<0.50	ND<0.50	1.0	2.5	--	ND<0.50	
6/24/2005	78.18	14.07	0	64.11	-3.11	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/15/2005	78.18	13.28	0	64.90	0.79	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/14/2006	78.18	12.53	0	65.65	0.75	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/21/2006	78.18	12.78	0	65.40	-0.25	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/28/2007	78.18	--	--	--	--	--	--	--	--	--	--	--	--	Bus parked over well
12/13/2007	78.18	15.37	0	62.81	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

76 Station 0746

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	Ground-LPH Thickness (feet)	Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
11/10/1994	80.63	6.34	0	74.29	3.27	--	--	--	--	--	--	--	--	
2/7/1995	80.63	7.18	0	73.45	-0.84	--	--	--	--	--	--	--	--	
3/14/1995	80.63	6.01	0	74.62	1.17	--	--	--	--	--	--	--	--	
11/7/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	
10/15/2001	80.63	8.43	0	72.20	--	--	--	--	--	--	--	--	--	
11/23/2001	80.63	8.57	0	72.06	-0.14	--	--	--	--	--	--	--	--	
12/10/2001	80.63	8.51	0	72.12	0.06	--	--	--	--	--	--	--	--	
1/14/2002	80.63	8.13	0	72.50	0.38	--	--	--	--	--	--	--	--	
2/22/2002	80.63	6.18	0	74.45	1.95	--	--	--	--	--	--	--	--	
3/11/2002	80.63	6.31	0	74.32	-0.13	--	--	--	--	--	--	--	--	
4/15/2002	80.63	6.39	0	74.24	-0.08	--	--	--	--	--	--	--	--	
5/24/2002	80.63	8.14	0	72.49	-1.75	--	--	--	--	--	--	--	--	
6/17/2002	80.63	8.18	0	72.45	-0.04	--	--	--	--	--	--	--	--	
7/15/2002	80.63	8.29	0	72.34	-0.11	--	--	--	--	--	--	--	--	
8/19/2002	80.63	8.44	0	72.19	-0.15	--	--	--	--	--	--	--	--	
9/5/2002	80.63	8.47	0	72.16	-0.03	--	--	--	--	--	--	--	--	
10/7/2002	80.63	8.43	0	72.20	0.04	--	--	--	--	--	--	--	--	
11/29/2002	80.63	8.92	0	71.71	-0.49	--	--	--	--	--	--	--	--	
12/12/2002	80.63	8.87	0	71.76	0.05	--	--	--	--	--	--	--	--	
1/6/2003	80.63	8.66	0	71.97	0.21	--	--	--	--	--	--	--	--	
2/12/2003	80.63	8.39	0	72.24	0.27	--	--	--	--	--	--	--	--	
3/13/2003	80.63	8.06	0	72.57	0.33	--	--	--	--	--	--	--	--	
4/7/2003	80.63	8.09	0	72.54	-0.03	--	--	--	--	--	--	--	--	
5/15/2003	80.63	8.07	0	72.56	0.02	--	--	--	--	--	--	--	--	
6/12/2003	80.63	8.11	0	72.52	-0.04	--	--	--	--	--	--	--	--	
7/7/2003	80.63	8.13	0	72.50	-0.02	--	--	--	--	--	--	--	--	
8/14/2003	80.63	8.23	0	72.40	-0.10	--	--	--	--	--	--	--	--	
9/12/2003	80.63	8.29	0	72.34	-0.06	--	--	--	--	--	--	--	--	
11/4/2003	80.63	9.97	0	70.66	-1.68	--	2600	11	ND<10	ND<10	ND<20	--	210	
5/24/2004	80.63	8.31	0	72.32	1.66	--	3100	20	ND<5.0	16	ND<10	--	200	
11/29/2004	80.63	8.23	0	72.40	0.08	--	4500	46	ND<1.0	34	3.6	--	140	
6/24/2005	80.63	7.53	0	73.10	0.70	--	2000	20	0.87	50	3.0	--	56	
12/15/2005	80.63	8.11	0	72.52	-0.58	--	3300	37	0.70	35	4.7	--	44	
6/14/2006	80.63	7.41	0	73.22	0.70	--	1500	2.0	0.95	6.9	ND<1.0	--	21	
12/21/2006	80.63	7.78	0	72.85	-0.37	--	3100	21	0.65	56	5.4	--	27	
6/28/2007	80.63	9.09	0	71.54	-1.31	--	2800	46	0.96	44	2.6	--	65	
12/13/2007	80.63	9.21	0	71.42	-0.12	--	9100	190	2.1	400	81	--	30	
6/9/2008	80.63	9.30	0	71.33	-0.09	--	5400	23	ND<2.5	330	13	--	39	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

76 Station 0746

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
12/30/2008	80.63	8.23	0	72.40	1.07	--	5800	130	ND<2.5	270	58	--	22	
9/28/2009	80.63	9.10	0	71.53	-0.87	--	3400	3.8	ND<2.5	23	5.0	--	21	
12/15/2009	80.63	7.96	0	72.67	1.14	--	9100	18	ND<2.5	450	160	--	ND<2.5	
6/28/2010	80.63	8.68	0	71.95	-0.72	--	2300	20	1.0	56	ND<1.0	--	5.6	
12/29/2010	80.63	6.04	0	74.59	2.64	--	4100	9.3	1.3	6.8	ND<1.0	--	1.6	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

76 Station 0746

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Comments
5/4/1998	--	--	--	--	--	--	--	--	--	2.94	
5/20/1999	--	--	--	--	--	--	--	--	--	3.22	
11/4/2003	--	ND<500	--	--	--	--	--	--	--	--	
5/24/2004	--	ND<50	--	--	--	--	--	--	--	--	
11/29/2004	--	ND<50	--	--	--	--	--	--	--	--	
6/24/2005	--	ND<1000	--	--	--	--	--	--	--	--	
12/15/2005	--	ND<250	--	--	--	--	--	--	--	--	
6/14/2006	--	ND<250	--	--	--	--	--	--	--	--	
12/21/2006	--	ND<250	--	--	--	--	--	--	--	--	
12/13/2007	--	ND<250	--	--	--	--	--	--	--	--	
6/9/2008	--	ND<250	--	--	--	--	--	--	--	--	
12/30/2008	--	ND<250	--	--	--	--	--	--	--	--	
9/28/2009	--	ND<250	--	--	--	--	--	--	--	--	
6/28/2010	--	ND<250	ND<0.50	--	ND<0.50	--	--	--	--	--	
12/29/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
MW-12											
5/15/1997	--	--	--	--	--	--	--	--	--	2.10	
5/4/1998	--	--	--	--	--	--	--	--	--	3.41	
11/4/2003	ND<100	ND<500	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	--	
5/24/2004	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	
11/29/2004	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	
6/24/2005	--	ND<1000	--	--	--	--	--	--	--	--	
12/15/2005	--	ND<250	--	--	--	--	--	--	--	--	
6/14/2006	--	ND<250	--	--	--	--	--	--	--	--	
12/21/2006	--	ND<250	--	--	--	--	--	--	--	--	
6/28/2007	--	ND<250	--	--	--	--	--	--	--	--	
12/13/2007	--	ND<250	--	--	--	--	--	--	--	--	
6/9/2008	--	ND<250	--	--	--	--	--	--	--	--	
12/30/2008	--	ND<250	--	--	--	--	--	--	--	--	
9/28/2009	--	ND<250	--	--	--	--	--	--	--	--	
12/15/2009	--	ND<250	--	--	--	--	--	--	--	--	
6/28/2010	--	ND<250	ND<0.50	ND<0.010	ND<0.50	--	--	--	--	--	
12/29/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
RW-1											
11/7/1995	--	--	--	--	--	--	--	--	2.13	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

76 Station 0746

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Comments
11/4/2003	ND<2000	ND<10000	--	--	--	ND<40	ND<40	ND<40	--	--	
5/24/2004	ND<50	ND<500	ND<5.0	--	ND<5.0	ND<10	ND<5.0	ND<5.0	--	--	
11/29/2004	38	ND<100	ND<1.0	--	ND<1.0	ND<2.0	ND<1.0	1.3	--	--	
6/24/2005	--	ND<1000	--	--	--	--	--	--	--	--	
12/15/2005	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
6/14/2006	--	ND<250	--	--	--	--	--	--	--	--	
12/21/2006	34	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	
6/28/2007	--	ND<250	--	--	--	--	--	--	--	--	
12/13/2007	--	ND<500	--	--	--	--	--	--	--	--	
6/9/2008	--	ND<1200	--	--	--	--	--	--	--	--	
12/30/2008	--	ND<1200	--	--	--	--	--	--	--	--	
9/28/2009	--	ND<1200	--	--	--	--	--	--	--	--	
12/15/2009	--	ND<1200	--	--	--	--	--	--	--	--	
6/28/2010	--	ND<250	ND<0.50	--	ND<0.50	--	--	--	--	--	
12/29/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	

ARCADIS

Attachment C

Laboratory Report and Chain-of-Custody Documentation



Date of Report: 06/16/2015

Kathy Brandt

Arcadis

2000 Powell Street 7th Floor
Emeryville, CA 94608

Client Project: 351647
BCL Project: 0746
BCL Work Order: 1514293
Invoice ID: B205824

Enclosed are the results of analyses for samples received by the laboratory on 6/10/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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15-14293

Union Oil Company of California

Union Oil Site ID: 0746

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

Union Oil Consultant: Arcevia

Consultant Contact: K. Brandt

Consultant Phone No.: 510-546-9675

Sampling Company: TRC Inc

Sampled By (PRINT): S. Hezen

Sampler Signature:

BC Laboratories, Inc.
Project Manager: Molly Meyers
4100 Atlas Court, Bakersfield, CA 93308
Phone No. 661-327-4911

Charge Code: NWRTB-0351647-0-LAB

This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.

Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	ANALYSES REQUIRED						Notes / Comments						
						TPH - Diesel by EPA 8015	TPH - G ₄ by <u>CC-C12</u>	BTEX/MTBE/ <u>605A</u> by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	FDS/EDC (<u>8260</u>)		Company	Date / Time				
-1	QA		150609	0715	2	X	X	X	X	X								
-2	MW-1			0900	6													
-3	MW-2			0950														
-4	MW-3			1030														
-5	MW-4			0625														
-6	MW-6			0815														
-7	MW-7			1210														
-8	MW-10			1345														
-9	MW-11			1500														
-10	MW-12			1120														
-11	RW-1																	
Relinquished By		Company		Date / Time		Relinquished By		Company		Date / Time		Relinquished By		Company		Date / Time		
<u>Arcevia</u>		<u>Arcevia</u>		<u>6/9/15 2000</u>		<u>Arcevia</u>		<u>Arcevia</u>		<u>06-10-15 1500</u>		<u>Yancy Brown</u>		<u>BCLAB</u>		<u>6-10-15 1830</u>		
Received By		Company		Date / Time		Received By		Company		Date / Time		Received By		Company		Date / Time		
<u>GETTNER-RYAN FERRER</u>		<u>Arcevia</u>		<u>06-10-15 0800</u>		<u>Yancy Brown</u>		<u>BCLAB</u>		<u>6-10-15 1500</u>		<u>Arcevia</u>		<u>BCLAB</u>		<u>6/10/15 18:30</u>		

REL. Arcevia 6/10/15 2035

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 15-14293

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: 0.97 Container: VOA Thermometer ID: 208 Date/Time 6/10/15
 Temperature: (A) 1.7 °C / (C) 1.5 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	<u>AB</u>									
40ml VOA VIAL		<u>A-F</u>	<u>A-F</u>	<u>A-F</u>	<u>A-F</u>	<u>A-F</u>	<u>A-F</u>	<u>A-F</u>	<u>A-F</u>	<u>A-F</u>
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

CHK BY [Signature] DISTRIBUTION [Signature]
 SUB-OUT



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 15-14293

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received: YES NO

Emissivity: 0.97 Container: VOA Thermometer ID: 208 Date/Time: 6/10/15

Temperature: (A) 1.7 °C / (C) 1.5 °C Analyst Init: KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: WJ Date/Time: 6/11/15 0855 Rev. No. 19 05/06/2015

A = Actual / C = Corrected [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMRECrev 19]



Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1514293-01	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: QA-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): QA Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1514293-02	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-1-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1514293-03	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-2-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1514293-04	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-3-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 09:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1514293-05	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-4-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1514293-06	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-6-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 06:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1514293-07	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-7-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 08:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1514293-08	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-10-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 12:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1514293-09	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-11-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-11 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1514293-10	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: MW-12-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1514293-11	COC Number: --- Project Number: 0746 Sampling Location: --- Sampling Point: RW-1-W-150609 Sampled By: GRD	Receive Date: 06/10/2015 22:35 Sampling Date: 06/09/2015 11:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): RW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-01	Client Sample Name: 0746, QA-W-150609, 6/9/2015 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	85.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 14:10	SE1	MS-V10	1	BYF1006

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-01	Client Sample Name: 0746, QA-W-150609, 6/9/2015 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.4	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 16:38	AKM	GC-V9	1	BYF1113

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-02	Client Sample Name: 0746, MW-1-W-150609, 6/9/2015 7:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	87.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 18:05	SE1	MS-V10	1	BYF1006

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-02	Client Sample Name: 0746, MW-1-W-150609, 6/9/2015 7:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	99.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 21:22	AKM	GC-V9	1	BYF1113

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-03	Client Sample Name: 0746, MW-2-W-150609, 6/9/2015 9:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 18:24	SE1	MS-V10	1	BYF1006

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2000 Powell Street 7th Floor
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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-03	Client Sample Name: 0746, MW-2-W-150609, 6/9/2015 9:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	93.9	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 21:42	AKM	GC-V9	1	BYF1113

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-04	Client Sample Name: 0746, MW-3-W-150609, 6/9/2015 9:50:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	4.0	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	16	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	108	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 19:17	SE1	MS-V10	1	BYF1006

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-04	Client Sample Name: 0746, MW-3-W-150609, 6/9/2015 9:50:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	6500	ug/L	500		EPA-8015B	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	114	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/15/15	06/15/15 12:51	AKM	GC-V9	10	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-05	Client Sample Name: 0746, MW-4-W-150609, 6/9/2015 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	1.8	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	11	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	122	%	80 - 120 (LCL - UCL)		EPA-8260B		A19,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 18:41	SE1	MS-V10	1	BYF1006

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2000 Powell Street 7th Floor
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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-05	Client Sample Name: 0746, MW-4-W-150609, 6/9/2015 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	2200	ug/L	500		EPA-8015B	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/15/15	06/15/15 12:00	AKM	GC-V9	10	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-06 **Client Sample Name:** 0746, MW-6-W-150609, 6/9/2015 6:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	87.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 14:28	SE1	MS-V10	1	BYF1219

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-06	Client Sample Name: 0746, MW-6-W-150609, 6/9/2015 6:25:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	97.1	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 22:03	AKM	GC-V9	1	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-07	Client Sample Name: 0746, MW-7-W-150609, 6/9/2015 8:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	88.1	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 14:47	SE1	MS-V10	1	BYF1006

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-07	Client Sample Name: 0746, MW-7-W-150609, 6/9/2015 8:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 22:23	AKM	GC-V9	1	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-08	Client Sample Name: 0746, MW-10-W-150609, 6/9/2015 12:10:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	88.5	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	06/11/15	06/11/15	15:05	SE1	MS-V10	1	BYF1006

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-08	Client Sample Name: 0746, MW-10-W-150609, 6/9/2015 12:10:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.9	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 22:43	AKM	GC-V9	1	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-09	Client Sample Name: 0746, MW-11-W-150609, 6/9/2015 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 15:23	SE1	MS-V10	1	BYF1006

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-09	Client Sample Name: 0746, MW-11-W-150609, 6/9/2015 1:45:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 23:03	AKM	GC-V9	1	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-10	Client Sample Name: 0746, MW-12-W-150609, 6/9/2015 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	87.8	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 15:41	SE1	MS-V10	1	BYF1006

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-10	Client Sample Name: 0746, MW-12-W-150609, 6/9/2015 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.8	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 23:23	AKM	GC-V9	1	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1514293-11 **Client Sample Name:** 0746, RW-1-W-150609, 6/9/2015 11:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	87.8	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/11/15	06/11/15 15:59	SE1	MS-V10	1	BYF1006

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2000 Powell Street 7th Floor
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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1514293-11	Client Sample Name: 0746, RW-1-W-150609, 6/9/2015 11:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	93.6	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	06/12/15	06/12/15 23:44	AKM	GC-V9	1	BYF1245

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BYF1006

Benzene	BYF1006-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BYF1006-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BYF1006-BLK1	ND	ug/L	0.50		
Ethylbenzene	BYF1006-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BYF1006-BLK1	ND	ug/L	0.50		
Toluene	BYF1006-BLK1	ND	ug/L	0.50		
Total Xylenes	BYF1006-BLK1	ND	ug/L	1.0		
Ethanol	BYF1006-BLK1	ND	ug/L	250		
1,2-Dichloroethane-d4 (Surrogate)	BYF1006-BLK1	93.0	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BYF1006-BLK1	99.1	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BYF1006-BLK1	90.2	%	80 - 120 (LCL - UCL)		

QC Batch ID: BYF1219

Benzene	BYF1219-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BYF1219-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BYF1219-BLK1	ND	ug/L	0.50		
Ethylbenzene	BYF1219-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BYF1219-BLK1	ND	ug/L	0.50		
Toluene	BYF1219-BLK1	ND	ug/L	0.50		
Total Xylenes	BYF1219-BLK1	ND	ug/L	1.0		
Ethanol	BYF1219-BLK1	ND	ug/L	250		
1,2-Dichloroethane-d4 (Surrogate)	BYF1219-BLK1	89.6	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BYF1219-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BYF1219-BLK1	103	%	80 - 120 (LCL - UCL)		

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BYF1006										
Benzene	BYF1006-BS1	LCS	20.640	25.000	ug/L	82.6		70 - 130		
Toluene	BYF1006-BS1	LCS	22.710	25.000	ug/L	90.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYF1006-BS1	LCS	9.1100	10.000	ug/L	91.1		75 - 125		
Toluene-d8 (Surrogate)	BYF1006-BS1	LCS	9.6600	10.000	ug/L	96.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYF1006-BS1	LCS	9.4800	10.000	ug/L	94.8		80 - 120		
QC Batch ID: BYF1219										
Benzene	BYF1219-BS1	LCS	22.590	25.000	ug/L	90.4		70 - 130		
Toluene	BYF1219-BS1	LCS	23.330	25.000	ug/L	93.3		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYF1219-BS1	LCS	9.2400	10.000	ug/L	92.4		75 - 125		
Toluene-d8 (Surrogate)	BYF1219-BS1	LCS	9.7300	10.000	ug/L	97.3		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYF1219-BS1	LCS	10.860	10.000	ug/L	109		80 - 120		

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2000 Powell Street 7th Floor
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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BYF1006		Used client sample: N								
Benzene	MS	1513811-09	ND	21.880	25.000	ug/L		87.5		70 - 130
	MSD	1513811-09	ND	21.540	25.000	ug/L	1.6	86.2	20	70 - 130
Toluene	MS	1513811-09	ND	23.620	25.000	ug/L		94.5		70 - 130
	MSD	1513811-09	ND	23.580	25.000	ug/L	0.2	94.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1513811-09	ND	9.4400	10.000	ug/L		94.4		75 - 125
	MSD	1513811-09	ND	9.1900	10.000	ug/L	2.7	91.9		75 - 125
Toluene-d8 (Surrogate)	MS	1513811-09	ND	9.6900	10.000	ug/L		96.9		80 - 120
	MSD	1513811-09	ND	9.6900	10.000	ug/L	0	96.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1513811-09	ND	9.5500	10.000	ug/L		95.5		80 - 120
	MSD	1513811-09	ND	9.4700	10.000	ug/L	0.8	94.7		80 - 120
QC Batch ID: BYF1219		Used client sample: Y - Description: MW-6-W-150609, 06/09/2015 06:25								
Benzene	MS	1514293-06	ND	22.400	25.000	ug/L		89.6		70 - 130
	MSD	1514293-06	ND	23.680	25.000	ug/L	5.6	94.7	20	70 - 130
Toluene	MS	1514293-06	ND	23.510	25.000	ug/L		94.0		70 - 130
	MSD	1514293-06	ND	25.190	25.000	ug/L	6.9	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1514293-06	ND	8.8100	10.000	ug/L		88.1		75 - 125
	MSD	1514293-06	ND	9.2700	10.000	ug/L	5.1	92.7		75 - 125
Toluene-d8 (Surrogate)	MS	1514293-06	ND	9.8100	10.000	ug/L		98.1		80 - 120
	MSD	1514293-06	ND	9.8900	10.000	ug/L	0.8	98.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1514293-06	ND	10.730	10.000	ug/L		107		80 - 120
	MSD	1514293-06	ND	10.830	10.000	ug/L	0.9	108		80 - 120

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1113						
Gasoline Range Organics (C6 - C12)	BYF1113-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BYF1113-BLK1	94.7	%	70 - 130 (LCL - UCL)		
QC Batch ID: BYF1245						
Gasoline Range Organics (C6 - C12)	BYF1245-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BYF1245-BLK1	96.2	%	70 - 130 (LCL - UCL)		

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BYF1113										
Gasoline Range Organics (C6 - C12)	BYF1113-BS1	LCS	998.06	1000.0	ug/L	99.8		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BYF1113-BS1	LCS	36.514	40.000	ug/L	91.3		70 - 130		
QC Batch ID: BYF1245										
Gasoline Range Organics (C6 - C12)	BYF1245-BS1	LCS	925.46	1000.0	ug/L	92.5		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BYF1245-BS1	LCS	40.430	40.000	ug/L	101		70 - 130		

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BYF1113		Used client sample: N								
Gasoline Range Organics (C6 - C12)	MS	1511019-81	ND	1071.6	1000.0	ug/L		107		70 - 130
	MSD	1511019-81	ND	942.83	1000.0	ug/L	12.8	94.3	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1511019-81	ND	38.871	40.000	ug/L		97.2		70 - 130
	MSD	1511019-81	ND	38.104	40.000	ug/L	2.0	95.3		70 - 130
QC Batch ID: BYF1245		Used client sample: N								
Gasoline Range Organics (C6 - C12)	MS	1511019-82	ND	996.61	1000.0	ug/L		99.7		70 - 130
	MSD	1511019-82	ND	918.15	1000.0	ug/L	8.2	91.8	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1511019-82	ND	36.705	40.000	ug/L		91.8		70 - 130
	MSD	1511019-82	ND	37.562	40.000	ug/L	2.3	93.9		70 - 130

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Reported: 06/16/2015 14:21
Project: 0746
Project Number: 351647
Project Manager: Kathy Brandt

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A19 Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.

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