Timothy L. Bishop, P.G.
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
Suite 5213
San Ramon, CA 94583
Tel (925) 790-6463
TimBishop@chevron.com

July 12, 2013

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Second Quarter 2013 Groundwater Monitoring Report
1629 Webster Street, Alameda, California
Fuel Leak Case No.: RO0000450

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) 790-6463.

Sincerely,

Timothy Bishop
Union Oil of California – Project Manager

Attachment
Second Quarter 2013 Groundwater Monitoring Report

ARCADIS U.S., Inc.
2000 Powell Street
7th Floor
Emeryville
California 94608
Tel 510.652.4500
Fax 510.652.4906
www.arcadis-us.com

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject:
Second Quarter 2013 Groundwater Monitoring Report

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 Quarterly Groundwater Monitoring Report for the following facility:

Facility No.	**Case No.**	**Location**
0843	RO0000450	1629 Webster Street Alameda, California

If you have any questions or comments regarding the contents of this document, please contact Mr. Tim Bishop of Chevron at 925.790.6463 or by e-mail at TimBishop@Chevron.com. Alternatively, you may contact Katherine Brandt of ARCADIS at 510.596.9675 or by e-mail at Katherine.Brandt@arcadis-us.com.

Date:
July 12, 2013

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
Katherine.Brandt@arcadis-us.com

Our ref:
B0047584.2013

Sincerely,

ARCADIS

Katherine Brandt
Certified Project Manager

Jacob Henry, P.G.,
Professional Geologist

PROFESSIONAL GEOLOGIST
JACOB T. HENRY
No. 8504
STATE OF CALIFORNIA

Copies:
Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, California 94612 (Geotracker)
Mr. Sam and Michelle Koka, 802 Pacific Avenue, Alameda, CA 94501

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
SECOND QUARTER 2013
July 12, 2013

Facility No.: 0843 Address: 1629 Webster Street, Alameda, California

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. RO0000450

WORK PERFORMED DURING THIS REPORTING PERIOD (Second Quarter – 2013) :

1. Gettler-Ryan conducted groundwater monitoring and sampling on May 7, 2013. Field data sheets and general procedures are included as **Attachment A**. Twelve (12) groundwater monitoring wells were gauged and sampled during this monitoring event (MW-1, MW-1AR, MW-1BR, and MW-3 through MW-11).

   Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by United States Environmental Protection Agency (EPA) Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), oxygenates (methyl tertiary butyl ether [MTBE], ethyl tertiary butyl ether [ETBE], di-isopropyl ether [DIPE], tertiary amyl methyl ether [TAME], tertiary butyl alcohol [TBA]), 1,2-dibromoethane (EDB), 1,2-dichloroethane (1,2-DCE or EDC), and ethanol by EPA Method 8260B; as well as field parameters electrical conductivity (EC), dissolved oxygen (DO), and oxidation reduction potential (ORP).

   Additionally, samples collected from groundwater monitoring wells MW-1, MW-1AR, MW-1BR, and MW-7 through MW-11 were analyzed for nitrate as NO_3, sulfate, ferric iron, non-volatile organic compounds, chromium (hexavalent, dissolved, and total), dissolved manganese, total recoverable manganese, dissolved vanadium, and total recoverable vanadium. Samples collected from wells MW-5 and MW-6 were additionally analyzed for chromium (hexavalent, dissolved, and total).

   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**, Current Additional Groundwater Analytical Results are summarized in **Table 1a**, Historic Groundwater Gauging and Analytical Results are summarized in **Table 2**, Historic Additional Groundwater Analytical Results are summarized in **Table 2a**, 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**.

   The adjacent Shell Station No. 13-5032 (Shell) located at 1601 Webster Street has received closure approval and will no longer be sampled.

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Third Quarter – 2013):

1. Perform groundwater monitoring and related reporting during third quarter 2013.
2. Prepare a Conceptual Site Model and Low Threat Closure Request

Current Phase of Project:	Groundwater Monitoring
Site Use:	Vacant Lot
Frequency of Sampling:	Groundwater – Quarterly
Frequency of Monitoring:	Groundwater – Quarterly
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:	No
Cumulative SPH Recovered to Date:	None
SPH Recovered This Quarter:	None
Bulk Soil Removed to Date:	338 tons (June 1998)
Bulk Soil Removed this Quarter:	None

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
SECOND QUARTER 2013
July 12, 2013

Facility No.: 0843 Address: 1629 Webster Street, Alameda, California

Water Wells or Surface Waters within a 2,000' Radius and Their Respective Directions:		Three irrigation wells located 0.1 mile west, northwest, and southeast of the site		
Groundwater Use Designation:		Irrigation		
Current Remediation Techniques:		None		
Permits for Discharge (No.):		None		
Approximate Depth to Groundwater:		5.78 (MW-5) – 7.23 (MW-1AR) feet below top of casing Measured X Estimated		
Approximate Groundwater Elevation:		10.67 (MW-5) – 12.13 (MW-1) feet relative to mean sea level Measured X Estimated		
Groundwater Gradient:	0.008 ft/ft	(Magnitude)	Northeast	(Direction)

DISCUSSION:

Groundwater conditions during the second quarter 2013 remained consistent with previous quarters. The maximum dissolved concentrations of MTBE (3,100 micrograms per liter [µg/L]), TBA (490µg/L), and TAME (2.5µg/L) were detected in the samples collected from MW-7. TPHg, benzene, toluene, ethylbenzene, total xylenes, ETBE, DIPE, EDB, EDC, and ethanol were not detected above the laboratory reporting limits for wells sampled.

Additionally, the maximum concentration of nitrate as NO_3 (30 milligrams per liter [mg/L]) was detected in well MW-1BR. The maximum concentration of sulfate (44 mg/L) was detected in well MW-8. The maximum concentration of non-volatile organic compounds (7.2 mg/L) was detected in well MW-7. The maximum concentrations of sulfate (44 µg/L), dissolved manganese (640 µg/L), and total recoverable manganese (700 µg/L) were detected in well MW-8. The maximum concentration of hexavalent chromium (6.9 µg/L) was detected in the sample collected from MW-10. The maximum concentrations of dissolved vanadium (3.7 µg/L), total chromium (46 µg/L), and total recoverable vanadium (39 µg/L) were detected in well MW-1. Ferric iron and dissolved chromium were not detected above the laboratory reporting limits for all wells sampled.

Groundwater elevations at the service station vary by approximately one-and-a-half feet, creating a relatively gentle hydraulic gradient of 0.008 foot per foot in the northeast direction.

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved hydrocarbon constituent concentrations have remained consistent with previous quarters. ARCADIS requests reduction of groundwater monitoring from quarterly to semi-annual sampling based on site plume stability. ARCADIS request discontinuing sampling for the additional analysis of the biodegradation parameters (Table 1a and 2A). The biodegradation parameters were originally planned for one hydrologic cycle in 2011. Quarterly samples have been collected since August of 2011. Biodegradation parameters will be discontinued during the next sampling event.

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
SECOND QUARTER 2013
July 12, 2013

Facility No.: 0843 Address: 1629 Webster Street, Alameda, California

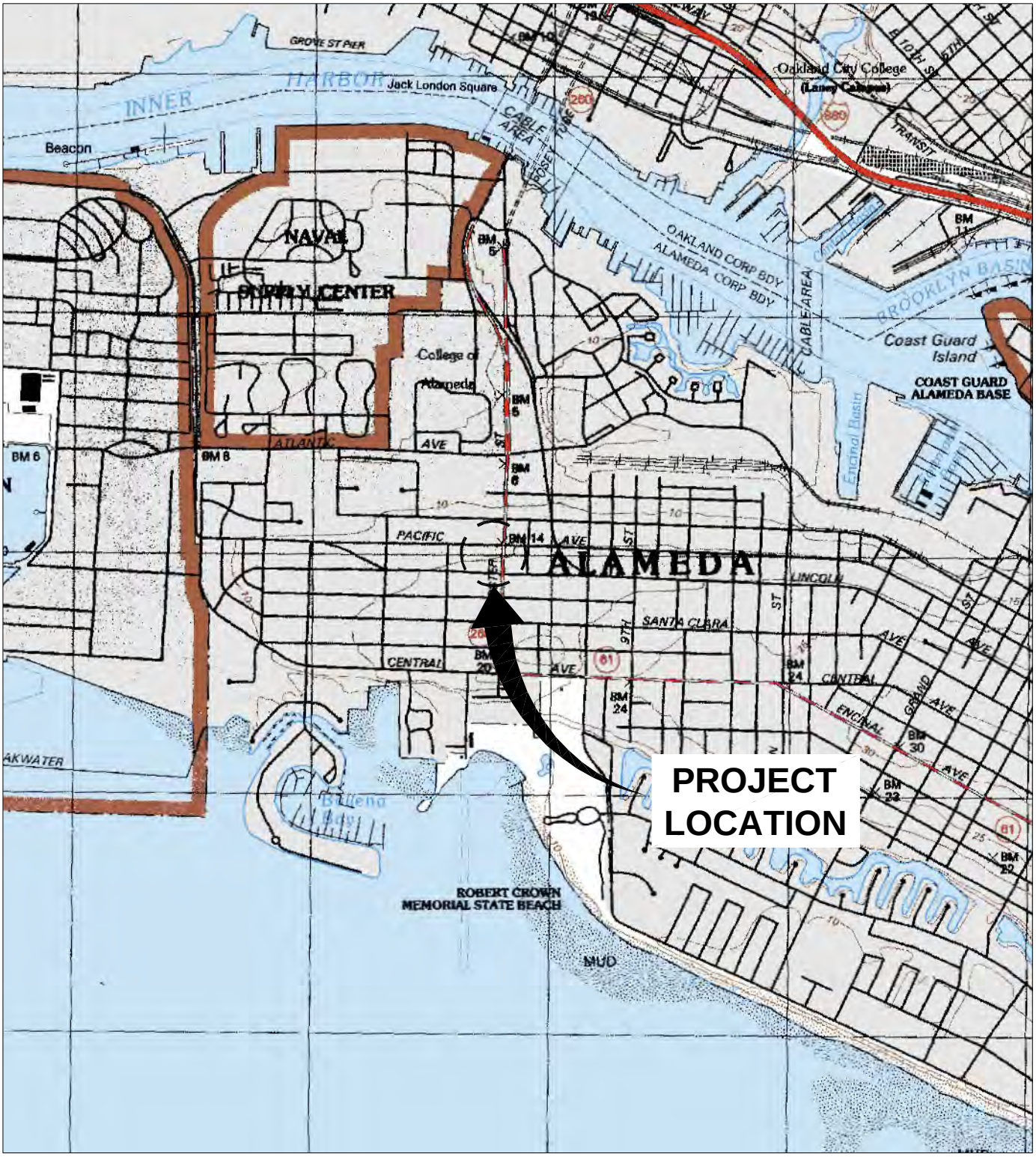
ATTACHMENTS:

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 1a: Current Additional Groundwater Analytical Results
Table 2: Historic Groundwater Gauging and Analytical Results
Table 2a: Historic Additional Groundwater Analytical Results

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

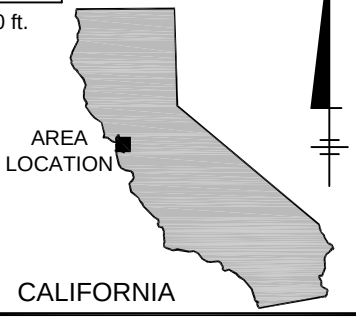
Figures



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

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE LOCATION MAP

ARCADIS

FIGURE 1

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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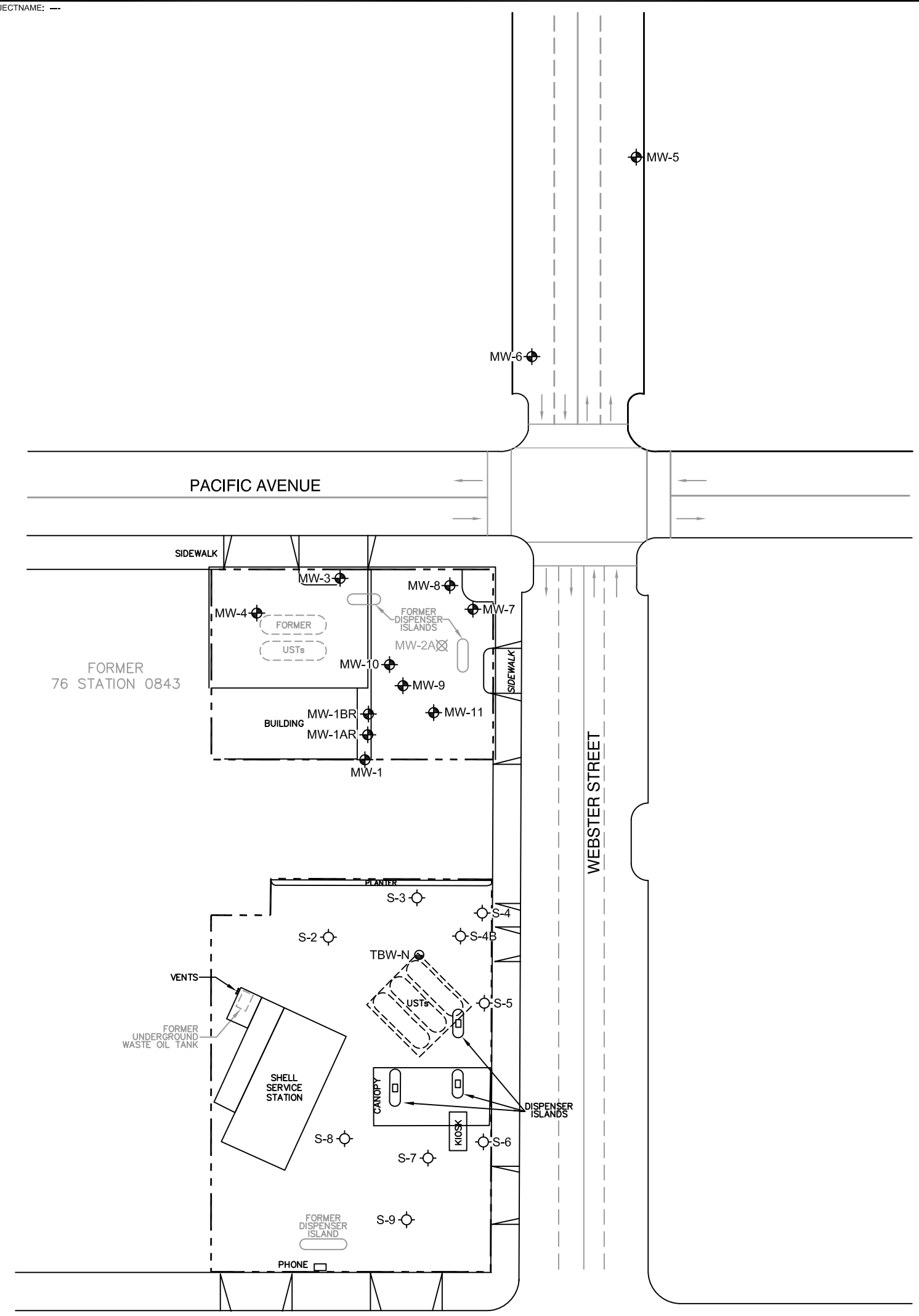

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION MONITORING WELL
- S-9 SHELL SERVICE STATION MONITORING WELL
- TBW-N SHELL TANK BACKFILL MONITORING WELL
- MW-2A ABANDONED WELL

0 50’ 100’
GRAPHIC SCALE

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
G:\ENVCAD\CostaMesa\RETURN-TO\Petaluma-CA\B0047584\2013\00002\2Q13\47584W01.dwg LAYOUT: 3 SAVED: 6/5/2013 1:33 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_PETALUMA.CTB PLOTTED: 6/5/2013 1:33 PM BY: MURESAN, ELENA

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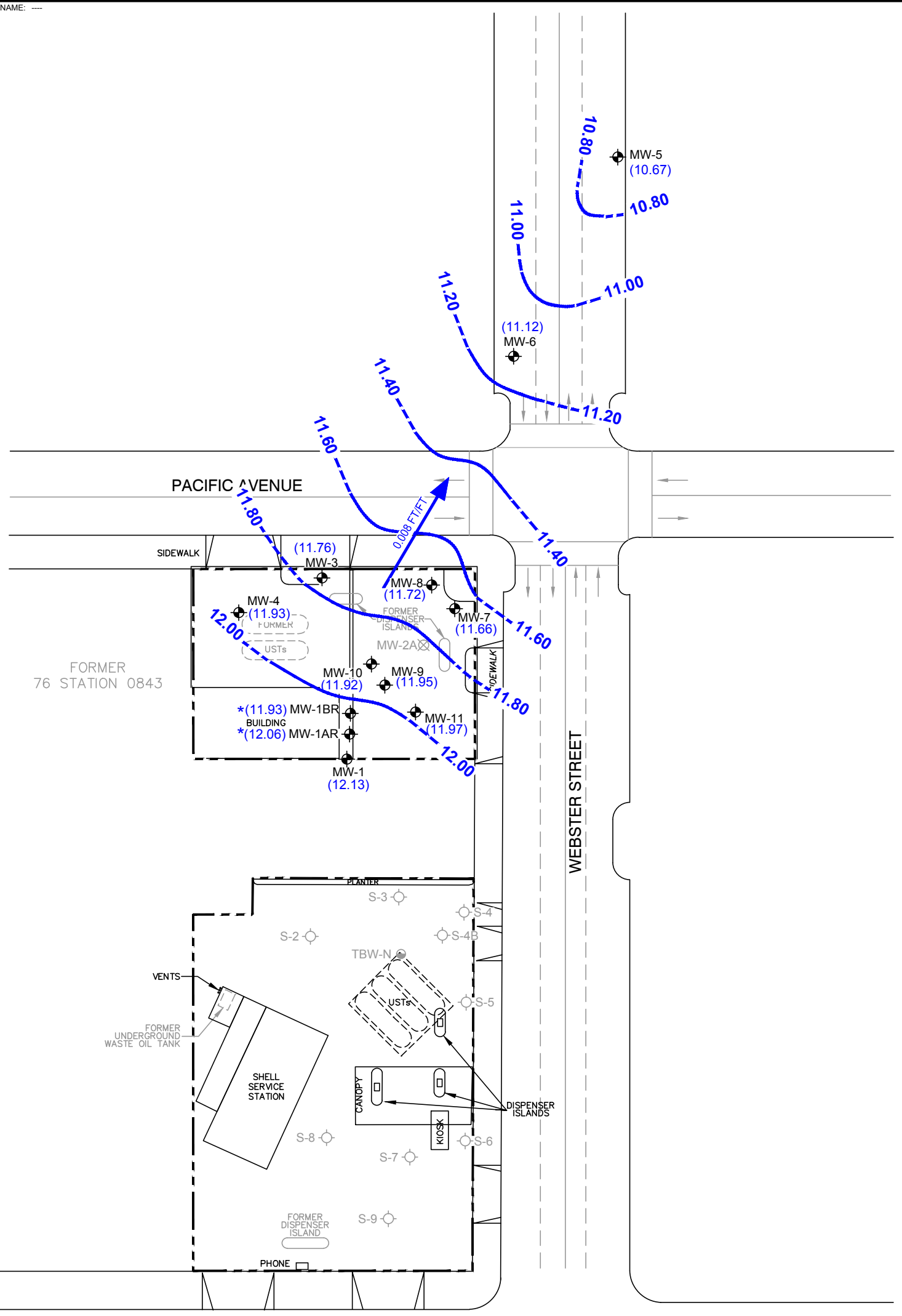

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION MONITORING WELL
- S-9 SHELL SERVICE STATION MONITORING WELL
- TBW-N SHELL TANK BACKFILL MONITORING WELL
- MW-2A ABANDONED WELL
- (12.13) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 12.00 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- 0.008 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)
- * NOT USED FOR CONTOURING; SHORT SCREEN INTERVAL; DIFFERENT CONSTRUCTION

0 50’ 100’
GRAPHIC SCALE

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. LL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. THE ADJACENT SHELL SITE HAS RECEIVED CLOSURE AND WILL NO LONGER BE SAMPLED.

UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP MAY 7, 2013

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FIGURE 3

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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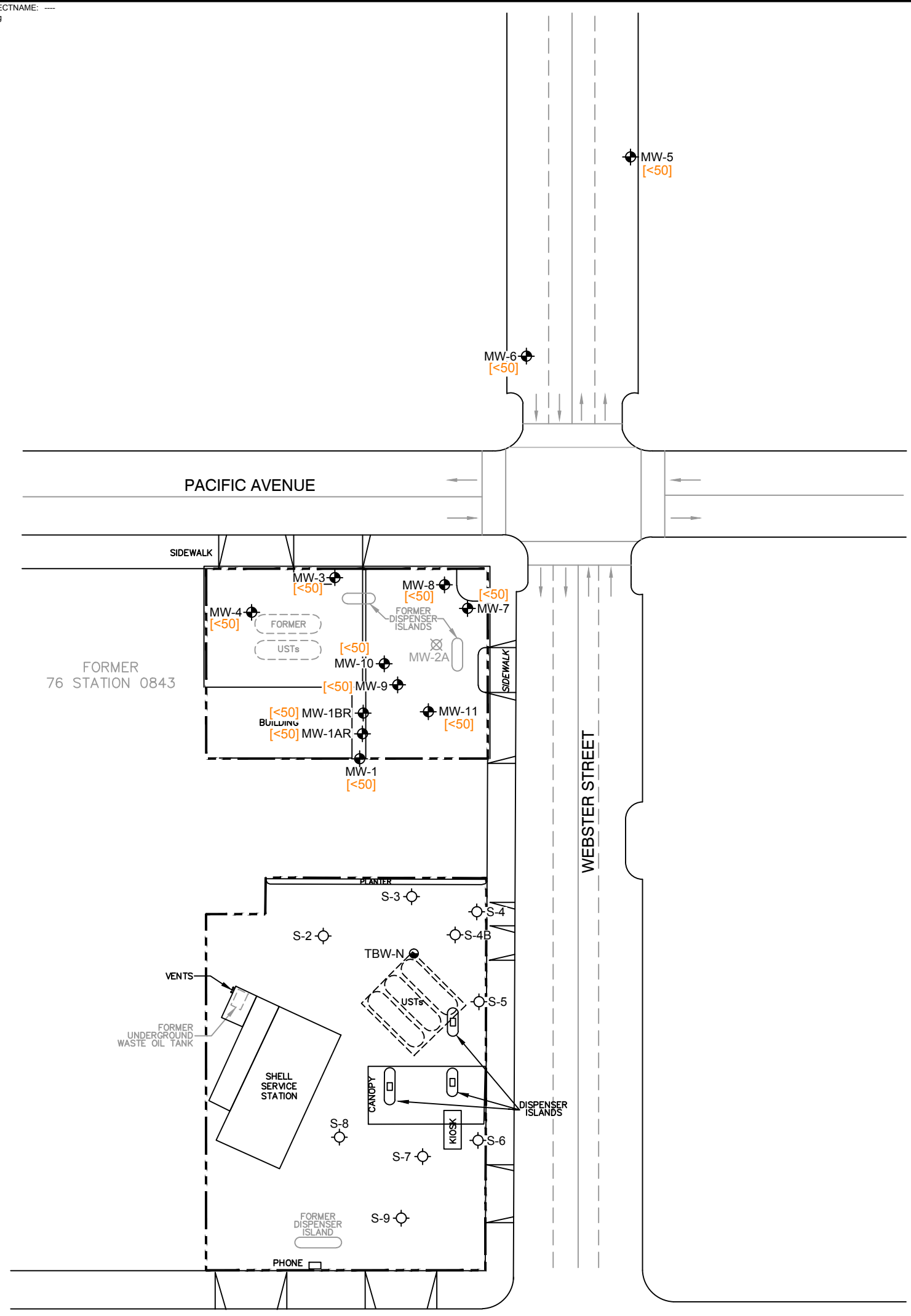

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION MONITORING WELL
- S-9 SHELL SERVICE STATION MONITORING WELL
- TBW-N SHELL TANK BACKFILL MONITORING WELL
- MW-2A ABANDONED WELL
- [TPH-g] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C4-C12) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

0 50’ 100’
GRAPHIC SCALE

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. LL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. THE ADJACENT SHELL SITE HAS RECEIVED CLOSURE AND WILL NO LONGER BE SAMPLED.

UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

TPH-g CONCENTRATION MAP
MAY 7, 2013

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FIGURE
4

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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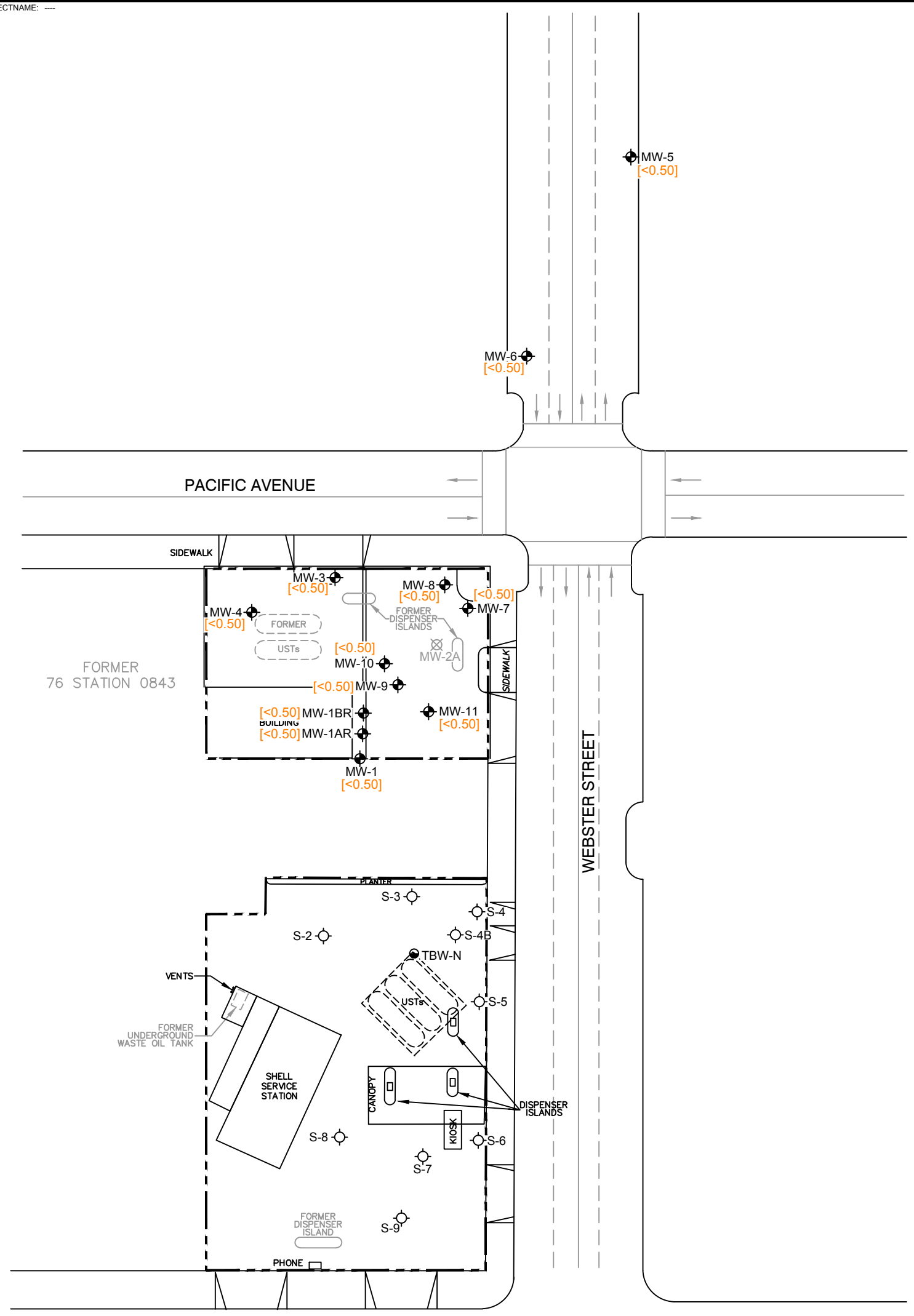

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION MONITORING WELL
- S-9 SHELL SERVICE STATION MONITORING WELL
- TBW-N SHELL TANK BACKFILL MONITORING WELL
- MW-2A ABANDONED WELL
- [BENZ] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

0 50’ 100’
GRAPHIC SCALE

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. THE ADJACENT SHELL SITE HAS RECEIVED CLOSURE AND WILL NO LONGER BE SAMPLED.

UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

BENZENE CONCENTRATION MAP
MAY 7, 2013

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FIGURE
5

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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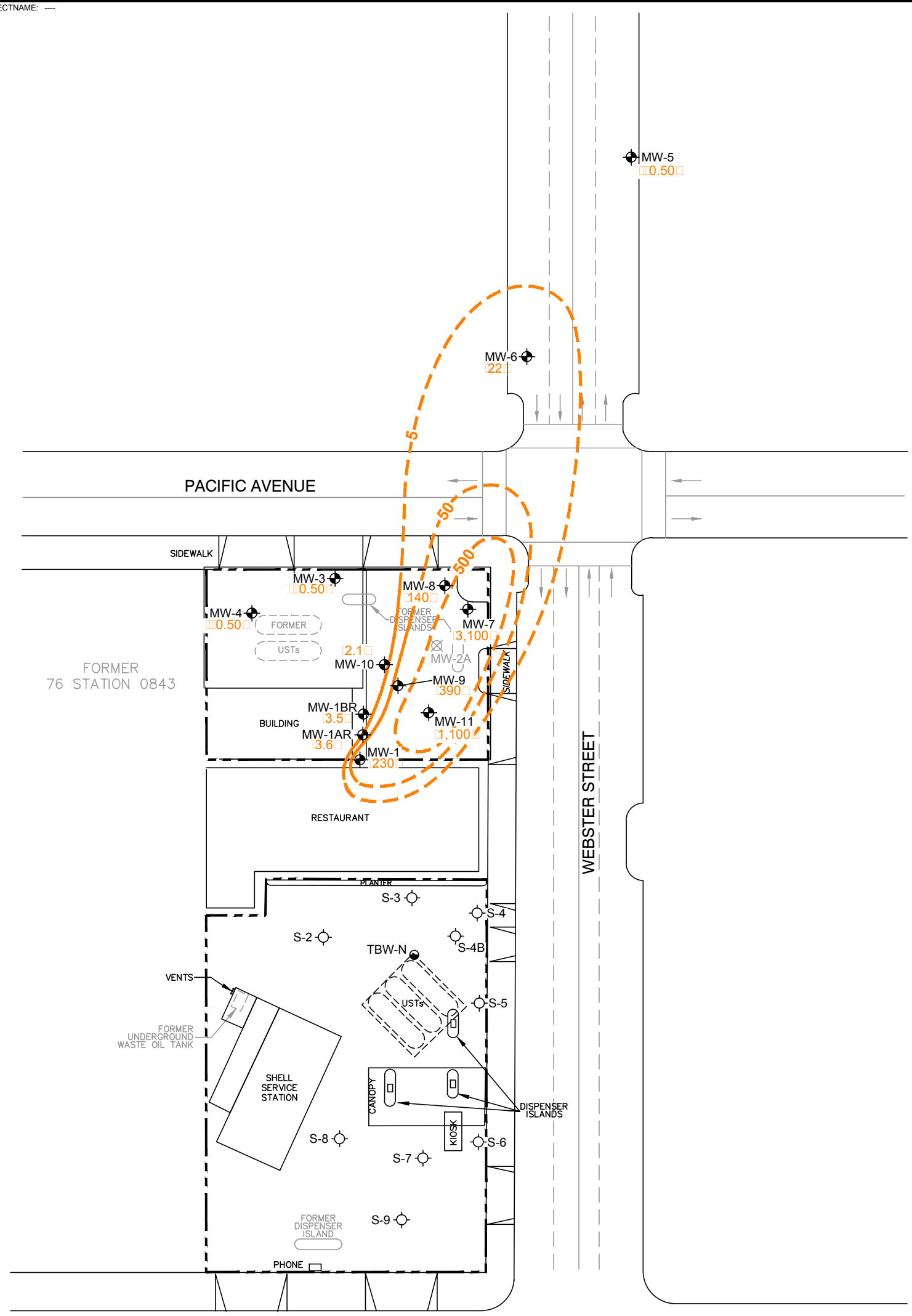

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION MONITORING WELL
- S-9 SHELL SERVICE STATION MONITORING WELL
- TBW-N SHELL TANK BACKFILL MONITORING WELL
- MW-2A ABANDONED WELL
- MTBE METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 50 MTBE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- DENOTES LESS THAN LABORATORY REPORTING LIMIT

0 50’ 100’
GRAPHIC SCALE

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. THE ADJACENT SHELL SITE HAS RECEIVED CLOSURE AND WILL NO LONGER BE SAMPLED.

UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

MTBE CONCENTRATION MAP
MAY 7, 2013

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FIGURE
6

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Tables

Table 1
Current Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	TPH-G 8015B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
MW-1	**5/7/2013**	**19.13**	**7.00**	**0.00**	**12.13**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**230**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-1AR	**5/7/2013**	**19.29**	**7.23**	**0.00**	**12.06**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.6**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-1BR	**5/7/2013**	**19.13**	**7.20**	**0.00**	**11.93**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.5**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-3	**5/7/2013**	**18.05**	**6.29**	**0.00**	**11.76**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-4	**5/7/2013**	**18.14**	**6.21**	**0.00**	**11.93**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-5	**5/7/2013**	**16.45**	**5.78**	**0.00**	**10.67**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-6	**5/7/2013**	**16.97**	**5.85**	**0.00**	**11.12**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**22**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-7	**5/7/2013**	**17.81**	**6.15**	**0.00**	**11.66**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3,100**	**490**	**2.5**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-8	**5/7/2013**	**18.13**	**6.41**	**0.00**	**11.72**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**140**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-9	**5/7/2013**	**18.75**	**6.80**	**0.00**	**11.95**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**390**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-10	**5/7/2013**	**18.84**	**6.92**	**0.00**	**11.92**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.1**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-11	**5/7/2013**	**18.72**	**6.75**	**0.00**	**11.97**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**1,100**	**140**	**0.81**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**

Note

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

Standard Abbreviations

<	not detected at or above laboratory detection limit
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)
TOC	top of casing (surveyed reference elevation)
MSL	relative to mean sea level
DTW	depth to water
bTOC	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
TPH-G	total petroleum hydrocarbons as gasoline
MTBE	methyl tertiary butyl ether
TBA	tertiary butyl alcohol
TAME	tertiary amyl methyl ether
ETBE	ethyl tertiary butyl ether
DIPE	di-isopropyl ether
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane (same as ethylene dichloride)
8015B	EPA Method 8015B for TPH-G
8260B	EPA Method 8260B for BTEX/MTBE/Oxygenates
A01	PQL's and MDL's are raised due to sample dilution.
PQL	practical quantitation limit
MDL	method detection lmit

Table 1a
Current Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferric Iron	Non-Volatile Organic Compounds (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
MW-1	**5/7/2013**	**435**	**4.9**	**337.5**	**16**	**27**	**<100**	**1.5**	**3.2**	**<10**	**49**	**3.7**	**46**	**440**	**39**	**S05**
MW-1AR	**5/7/2013**	**394**	**6.8**	**354.7**	**23**	**32**	**<100**	**3.5**	**2.0**	**<10**	**78**	**<3.0**	**20**	**590**	**13**	**S05**
MW-1BR	**5/7/2013**	**406**	**6.1**	**355.7**	**30**	**30**	**<100**	**3.9**	**2.4**	**<10**	**260**	**<3.0**	**<10**	**510**	**5.0**	**S05**
MW-3	**5/7/2013**	**730**	**6.8**	**354.8**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-4	**5/7/2013**	**1,120**	**6.5**	**351.1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-5	**5/7/2013**	**531**	**4.8**	**359.2**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**45**	**--**	**--**	**S05**
MW-6	**5/7/2013**	**537**	**5.2**	**361.6**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**33**	**--**	**--**	**S05**
MW-7	**5/7/2013**	**671**	**9.3**	**239.3**	**2.9**	**34**	**<100**	**7.2**	**<2.0**	**<10**	**470**	**<3.0**	**<10**	**440**	**<3.0**	**S05**
MW-8	**5/7/2013**	**532**	**7.2**	**304.2**	**2.7**	**44**	**<100**	**4.2**	**<2.0**	**<10**	**640**	**<3.0**	**<10**	**700**	**<3.0**	**S05**
MW-9	**5/7/2013**	**576**	**5.9**	**322.0**	**16**	**40**	**<100**	**2.1**	**2.1**	**<10**	**64**	**<3.0**	**<10**	**160**	**3.6**	**S05**
MW-10	**5/7/2013**	**429**	**6.2**	**333.9**	**17**	**32**	**<100**	**3.2**	**6.9**	**<10**	**20**	**<3.0**	**<10**	**49**	**3.8**	**S05**
MW-11	**5/7/2013**	**702**	**9.5**	**363.4**	**7.5**	**30**	**<100**	**3.2**	**<2.0**	**<10**	**630**	**<3.0**	**<10**	**680**	**4.4**	**S05**

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
umhos/cm	micromhos per centimeter
mg/l	milligrams per liter (approx. equivalent to parts per million, ppm)
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)
mV	millivolts
EC	electrical conductivity
DO	dissolved oxygen
ORP	oxidation reduction potential
120.1	EPA Method 120.1 for EC
SM-4500OG	SM-4500OG for DO
ASTM-D1498	ASTM-D1498 for ORP
300.0	EPA Method 300.0 for sulfate and nitrate as NO3
SM-3500-FeD	SM-3500-FeD for ferric iron
415.1	EPA Method 415.1 for non-volatile organic compounds
7196	EPA Method 7196 for hexavalent chromium
6010B	EPA Method 6010B for dissolved and total chromium
200.8	EPA Method 200.8 for dissolved and total recoverable manganese and vanadium
A01	PQL's and MDL's are raised due to sample dilution.
A10	PQL's and MDL's were raised due to matrix interference.
S05	The sample holding time was exceeded.
PQL	practical quantitation limit
MDL	method detection lmit

Table 2
Historic Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	TPH-G 8015B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
MW-1	8/4/2011	19.13	6.78	0.00	12.35	310	<0.50	<0.50	<0.50	<1.0	420	13	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-1	11/21/2011	19.13	7.58	0.00	11.55	85*	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-1	2/2/2012	19.13	7.60	0.00	11.53	<50	<0.50	<0.50	<0.50	1.0	380	94	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	5/14/2012	19.13	6.45	0.00	12.68	<50	<0.50	<0.50	<0.50	<1.0	800	220	0.75	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	8/13/2012	19.13	7.33	0.00	11.80	<50	<0.50	<0.50	<0.50	<1.0	610	120	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	10/25/2012	19.13	8.10	0.00	11.03	<50	<0.50	<0.50	<0.50	<1.0	250	60	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	3/5/2013	19.13	6.70	0.00	12.43	<50	<0.50	<0.50	<0.50	<1.0	320	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	**5/7/2013**	**19.13**	**7.00**	**0.00**	**12.13**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**230**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-1AR	8/4/2011	19.29	6.95	0.00	12.34	<50	<0.50	<0.50	<0.50	<1.0	16	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	11/21/2011	19.29	7.82	0.00	11.47	21* J	<0.50	<0.50	<0.50	<1.0	22	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	2/2/2012	19.29	8.08	0.00	11.21	<50	<0.50	<0.50	<0.50	1.4	23	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	5/14/2012	19.29	6.72	0.00	12.57	<50	<0.50	<0.50	<0.50	<1.0	13	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	8/13/2012	19.29	7.62	0.00	11.67	<50	<0.50	<0.50	<0.50	<1.0	18	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	10/25/2012	19.29	8.27	0.00	11.02	<50	<0.50	<0.50	<0.50	<1.0	19	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	3/5/2013	19.29	6.92	0.00	12.37	<50	<0.50	<0.50	<0.50	<1.0	4.9	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	**5/7/2013**	**19.29**	**7.23**	**0.00**	**12.06**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.6**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-1BR	8/4/2011	19.13	6.92	0.00	12.21	59	<0.50	<0.50	<0.50	<1.0	60	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-1BR	11/21/2011	19.13	7.78	0.00	11.35	29* J	<0.50	<0.50	<0.50	<1.0	34	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	2/2/2012	19.13	8.07	0.00	11.06	<50	<0.50	<0.50	<0.50	1.7	15	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	5/14/2012	19.13	6.67	0.00	12.46	<50	<0.50	<0.50	<0.50	<1.0	23	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	8/13/2012	19.13	7.50	0.00	11.63	<50	<0.50	<0.50	<0.50	<1.0	15	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	10/25/2012	19.13	8.23	0.00	10.90	<50	<0.50	<0.50	<0.50	<1.0	12	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	3/5/2013	19.13	6.89	0.00	12.24	<50	<0.50	<0.50	<0.50	<1.0	2.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	**5/7/2013**	**19.13**	**7.20**	**0.00**	**11.93**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.5**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-3	8/4/2011	18.05	6.10	0.00	11.95	<50	<0.50	<0.50	<0.50	<1.0	0.55	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	11/21/2011	18.05	6.90	0.00	11.15	<50*	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	2/2/2012	18.05	6.90	0.00	11.15	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	5/14/2012	18.05	5.78	0.00	12.27	<50	<0.50	<0.50	<0.50	<1.0	1.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	8/13/2012	18.05	6.60	0.00	11.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	10/25/2012	18.05	7.30	0.00	10.75	<50	<0.50	<0.50	<0.50	<1.0	1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	3/5/2013	18.05	5.98	0.00	12.07	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	**5/7/2013**	**18.05**	**6.29**	**0.00**	**11.76**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-4	8/4/2011	18.14	6.00	0.00	12.14	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	11/21/2011	18.14	6.80	0.00	11.34	<50*	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	2/2/2012	18.14	6.83	0.00	11.31	<50	<0.50	<0.50	<0.50	<1.0	10	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	5/14/2012	18.14	5.66	0.00	12.48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	8/13/2012	18.14	6.55	0.00	11.59	<50	<0.50	<0.50	<0.50	<1.0	5.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	10/25/2012	18.14	7.23	0.00	10.91	<50	<0.50	<0.50	<0.50	<1.0	11	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	3/5/2013	18.14	5.88	0.00	12.26	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	**5/7/2013**	**18.14**	**6.21**	**0.00**	**11.93**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-5	8/4/2011	16.45	5.63	0.00	10.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	11/21/2011	16.45	6.28	0.00	10.17	12* J	<0.50	<0.50	<0.50	<1.0	1.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	2/2/2012	16.45	6.22	0.00	10.23	<50	<0.50	<0.50	<0.50	<1.0	2.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	5/14/2012	16.45	5.25	0.00	11.20	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	8/13/2012	16.45	6.06	0.00	10.39	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	10/25/2012	16.45	6.62	0.00	9.83	<50	<0.50	<0.50	<0.50	<1.0	2.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	

Table 2
Historic Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	TPH-G 8015B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
MW-5	3/5/2013	16.45	5.50	0.00	10.95	<50	<0.50	<0.50	<0.50	<1.0	2.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	**5/7/2013**	**16.45**	**5.78**	**0.00**	**10.67**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-6	8/4/2011	16.97	5.69	0.00	11.28	75	<0.50	<0.50	<0.50	<1.0	80	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-6	11/21/2011	16.97	6.36	0.00	10.61	55*	<0.50	<0.50	<0.50	<1.0	86	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	2/2/2012	16.97	6.31	0.00	10.66	<50	<0.50	<0.50	<0.50	<1.0	94	21	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	5/14/2012	16.97	5.38	0.00	11.59	<50	<0.50	<0.50	<0.50	<1.0	89	33	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	8/13/2012	16.97	6.08	0.00	10.89	<50	<0.50	<0.50	<0.50	<1.0	89	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	10/25/2012	16.97	6.69	0.00	10.28	<50	<0.50	<0.50	<0.50	<1.0	57	11	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	3/5/2013	16.97	5.57	0.00	11.40	<50	<0.50	<0.50	<0.50	<1.0	29	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	**5/7/2013**	**16.97**	**5.85**	**0.00**	**11.12**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**22**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-7	8/4/2011	17.81	5.85	0.00	11.96	2,300	<0.50	<0.50	<0.50	<1.0	6,300	2,200	6.7	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-7	11/21/2011	17.81	6.67	0.00	11.14	1,400*	<0.50	<0.50	<0.50	<1.0	5,900	2,200	6.4	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-7	2/2/2012	17.81	6.69	0.00	11.12	<50	<0.50	<0.50	<0.50	<1.0	6,400	2,800	5.0	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	5/14/2012	17.81	5.57	0.00	12.24	<50	<0.50	<0.50	<0.50	<1.0	5,600	2,300	4.4	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	8/13/2012	17.81	6.42	0.00	11.39	<50	<0.50	<0.50	<0.50	<1.0	4,800	2,000	3.9	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	10/25/2012	17.81	7.19	0.00	10.62	290	<0.50	<0.50	<0.50	<1.0	3,600	2,000	3.4	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	3/5/2013	17.81	6.02	0.00	11.79	<50	<0.50	<0.50	<0.50	<1.0	2,800	510	2.3	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	**5/7/2013**	**17.81**	**6.15**	**0.00**	**11.66**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3,100**	**490**	**2.5**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-8	8/4/2011	18.13	6.23	0.00	11.90	2,000	<0.50	<0.50	<0.50	<1.0	4,400	370	4.9	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-8	11/21/2011	18.13	7.02	0.00	11.11	900*	<0.50	<0.50	<0.50	<1.0	2,500	250	2.6	<0.50	<0.50	<0.50	<0.50	<250	
MW-8	2/2/2012	18.13	6.97	0.00	11.16	<50	<0.50	<0.50	<0.50	<1.0	2,400	740	2.3	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	5/14/2012	18.13	5.91	0.00	12.22	<50	<0.50	<0.50	<0.50	<1.0	2,100	590	1.7	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	8/13/2012	18.13	6.71	0.00	11.42	<50	<0.50	<0.50	<0.50	<1.0	1,600	450	1.2	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	10/25/2012	18.13	7.39	0.00	10.74	<50	<0.50	<0.50	<0.50	<1.0	810	380	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	3/5/2013	18.13	6.15	0.00	11.98	<50	<0.50	<0.50	<0.50	<1.0	100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	**5/7/2013**	**18.13**	**6.41**	**0.00**	**11.72**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**140**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-9	8/4/2011	18.75	6.59	0.00	12.16	62	<0.50	<0.50	<0.50	<1.0	59	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-9	11/21/2011	18.75	7.45	0.00	11.30	33* J	<0.50	<0.50	<0.50	<1.0	44	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	J
MW-9	2/2/2012	18.75	7.47	0.00	11.28	<50	<0.50	<0.50	<0.50	<1.0	6.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-9	5/14/2012	18.75	6.30	0.00	12.45	<50	<0.50	<0.50	<0.50	<1.0	190	51	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	8/13/2012	18.75	7.12	0.00	11.63	<50	<0.50	<0.50	<0.50	<1.0	220	36	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	10/25/2012	18.75	7.87	0.00	10.88	<50	<0.50	<0.50	<0.50	<1.0	270	88	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	3/5/2013	18.75	6.54	0.00	12.21	<50	<0.50	<0.50	<0.50	<1.0	60	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-9	**5/7/2013**	**18.75**	**6.80**	**0.00**	**11.95**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**390**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-10	8/4/2011	18.84	6.73	0.00	12.11	<50	<0.50	<0.50	<0.50	<1.0	7.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	11/21/2011	18.84	7.52	0.00	11.32	<50*	<0.50	<0.50	<0.50	<1.0	1.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	2/2/2012	18.84	7.52	0.00	11.32	<50	<0.50	<0.50	<0.50	3.2	1.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	5/14/2012	18.84	6.42	0.00	12.42	<50	<0.50	<0.50	<0.50	<1.0	1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	8/13/2012	18.84	7.24	0.00	11.60	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	10/25/2012	18.84	7.95	0.00	10.89	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	3/5/2013	18.84	6.64	0.00	12.20	<50	<0.50	<0.50	<0.50	<1.0	1.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	**5/7/2013**	**18.84**	**6.92**	**0.00**	**11.92**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.1**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-11	8/4/2011	18.72	6.54	0.00	12.18	1,400	<0.50	<0.50	<0.50	<1.0	2,000	110	2.4	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-11	11/21/2011	18.72	7.36	0.00	11.36	850*	<0.50	<0.50	<0.50	<1.0	2,100	270	2.1	<0.50	<0.50	<0.50	<0.50	<250	
MW-11	2/2/2012	18.72	7.32	0.00	11.40	<50	<0.50	<0.50	<0.50	<1.0	2,500	730	2.0	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	5/14/2012	18.72	6.21	0.00	12.51	<50	<0.50	<0.50	<0.50	<1.0	1,700	570	1.4	<0.50	<0.50	<0.50	<0.50	<250	A01

Table 2
Historic Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	TPH-G 8015B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
MW-11	8/13/2012	18.72	7.03	0.00	11.69	<50	<0.50	<0.50	<0.50	<1.0	1,100	280	0.87	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	10/25/2012	18.72	7.77	0.00	10.95	<50	<0.50	<0.50	<0.50	<1.0	1,000	590	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	3/5/2013	18.72	6.47	0.00	12.25	<50	<0.50	<0.50	<0.50	<1.0	750	180	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	**5/7/2013**	**18.72**	**6.75**	**0.00**	**11.97**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**1,100**	**140**	**0.81**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**

Note

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

Standard Abbreviations

<	not detected at or above laboratory detection limit
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)
TOC	top of casing (surveyed reference elevation)
MSL	relative to mean sea level
DTW	depth to water
bTOC	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
TPH-G	total petroleum hydrocarbons as gasoline
MTBE	methyl tertiary butyl ether
TBA	tertiary butyl alcohol
TAME	tertiary amyl methyl ether
ETBE	ethyl tertiary butyl ether
DIPE	di-isopropyl ether
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane (same as ethylene dichloride)
8260B	EPA Method 8260B for BTEX/MTBE/Oxygenates
GC/MS	gas chromatography–mass spectrometry
A01	PQL's and MDL's are raised due to sample dilution.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
TPPH	total purgeable petroleum hydrocarbons
*	TPPH (C6 through C12)
J	Estimated Value
PQL	practical quantitation limit
MDL	method detection lmit

Table 2a
Historic Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferrous Iron	Non-Volatile Organic Compounds (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
MW-1	8/4/2011	438	8.8	297.8	24	30	300	1.5	<2.0	<10	2.3	<3.0	99	830	63	A01, A90
MW-1	11/21/2011	378	2.3	310.6	16	23	54 J	1.1	<2.0	1.4 J	0.98 J	<3.0	220	1,100	78	
MW-1	2/2/2012	424	7.6	273.0	20	23	<100	1.2	<2.0	<10	1.4	<3.0	130	920	67	A10, S05
MW-1	5/14/2012	493	7.9	275.5	19	28	<200	1.6	2.1	<10	<1.0	<3.0	60	460	38	A10, S05
MW-1	8/13/2012	445	6.6	332.7	14	25	<100	1.4	<2.0	<10	2.6	<3.0	62	400	33	S05
MW-1	10/25/2012	405	7.8	260.1	13	23	200	1.3	2.6	<10	330	6.7	62	490	42	S05
MW-1	3/5/2013	336	5.3	288.0	10	17	<100	1.2	<2.0	<10	3.6	<3.0	46	350	33	S05
MW-1	**5/7/2013**	**435**	**4.9**	**337.5**	**16**	**27**	**<100**	**1.5**	**3.2**	**<10**	**49**	**3.7**	**46**	**440**	**39**	**S05**
MW-1AR	8/4/2011	371	8.3	305.3	21	28	160	1.5	<2.0	<10	94	<3.0	15	250	9.1	
MW-1AR	11/21/2011	456.2	0.77	305.8	20	28	<100	1.4	<2.0	<10	71	1.1 J	6.7 J	220	3.4	
MW-1AR	2/2/2012	468	7.90	269.1	23	35	<100	1.6	<2.0	<10	110	<3.0	22	290	11	S05
MW-1AR	5/14/2012	474	5.60	286.0	23	33	<100	1.5	<2.0	<10	62	<3.0	16	260	8.0	S05
MW-1AR	8/13/2012	457	6.5	313.5	24	36	<100	1.6	<2.0	<10	150	<3.0	31	320	9.8	S05
MW-1AR	10/25/2012	463	6.6	251.2	23	34	<100	1.7	2.1	<10	270	<3.0	18	290	11	S05
MW-1AR	3/5/2013	410	6.4	283.2	24	32	<100	1.5	<2.0	<10	59	<3.0	<10	87	<3.0	S05
MW-1AR	**5/7/2013**	**394**	**6.8**	**354.7**	**23**	**32**	**<100**	**3.5**	**2.0**	**<10**	**78**	**<3.0**	**20**	**590**	**13**	**S05**
MW-1BR	8/4/2011	437	9.4	310.9	28	27	170	1.3	<2.0	<10	98	<3.0	13	170	7.4	A90
MW-1BR	11/21/2011	481.8	0.89	316.9	28	25	62 J	1.2	<2.0	2.8 J	26	1.7 J	9.6 J	120	4.4	
MW-1BR	2/2/2012	456	7.20	273.1	29	28	<100	1.3	<2.0	<10	40	<3.0	55	400	23	S05
MW-1BR	5/14/2012	443	4.20	287.0	24	24	<100	1.3	2.5	<10	50	<3.0	<10	340	<3.0	S05
MW-1BR	8/13/2012	435	5.8	314.3	30	29	<100	1.3	<2.0	<10	94	<3.0	<10	220	3.1	S05
MW-1BR	10/25/2012	432	5.2	266.5	28	28	<100	1.3	3.1	<10	190	<3.0	13	210	10	S05
MW-1BR	3/5/2013	402	6.7	292.6	29	27	<100	1.2	<2.0	<10	13	<3.0	<10	140	3.3	S05
MW-1BR	**5/7/2013**	**406**	**6.1**	**355.7**	**30**	**30**	**<100**	**3.9**	**2.4**	**<10**	**260**	**<3.0**	**<10**	**510**	**5.0**	**S05**
MW-3	8/4/2011	614	6.1	312.8	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/21/2011	652.7	1.24	323.1	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/2/2012	576	6.00	301.8	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	5/14/2012	624	7.70	296.9	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	8/13/2012	674	8.0	292.4	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	10/25/2012	660	6.6	199.1	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	3/5/2013	653	4.9	319.8	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	**5/7/2013**	**730**	**6.8**	**354.8**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-4	8/4/2011	1,080	9.7	311.5	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/21/2011	464	4.1	321.8	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/2/2012	980	7.7	297.7	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	5/14/2012	1,030	8.7	296.8	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	8/13/2012	1,110	8.7	305.9	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	10/25/2012	985	5.3	225.2	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	3/5/2013	1,080	6.5	320.1	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	**5/7/2013**	**1,120**	**6.5**	**351.1**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-5	8/4/2011	582	7.1	282.0	--	--	--	--	<2.0	<10	120	--	--	--	--	
MW-5	11/21/2011	616.7	1.78	297.7	--	--	--	--	<2.0	1.7 J	160	--	--	--	--	
MW-5	2/2/2012	620	8.00	236.9	--	--	--	--	<2.0	<10	--	--	72	--	--	S05

Table 2a
Historic Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferrous Iron	Non-Volatile Organic Compounds (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
MW-5	5/14/2012	612	6.20	307.5	--	--	--	--	<2.0	<10	--	--	52	--	--	S05
MW-5	8/13/2012	628	7.4	321.7	--	--	--	--	<2.0	<10	--	--	85	--	--	S05
MW-5	10/25/2012	616	8.0	231.0	--	--	--	--	<2.0	<10	--	--	77	--	--	S05
MW-5	3/5/2013	570	5.0	323.0	--	--	--	--	<2.0	<10	--	--	37	--	--	S05
MW-5	**5/7/2013**	**531**	**4.8**	**359.2**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**45**	**--**	**--**	**S05**
MW-6	8/4/2011	484	6.9	316.9	--	--	--	--	<2.0	<10	82	--	--	--	--	A90
MW-6	11/21/2011	560.8	1.12	300.6	--	--	--	--	<2.0	<10	40	--	--	--	--	
MW-6	2/2/2012	535	6.40	252.9	--	--	--	--	<2.0	<10	--	--	77	--	--	S05
MW-6	5/14/2012	525	8.30	312.0	--	--	--	--	<2.0	<10	--	--	65	--	--	S05
MW-6	8/13/2012	522	8.9	327.7	--	--	--	--	<2.0	<10	--	--	49	--	--	S05
MW-6	10/25/2012	517	8.0	267.9	--	--	--	--	<2.0	<10	--	--	34	--	--	S05
MW-6	3/5/2013	528	5.4	323.0	--	--	--	--	<2.0	<10	--	--	20	--	--	S05
MW-6	**5/7/2013**	**537**	**5.2**	**361.6**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**33**	**--**	**--**	**S05**
MW-7	8/4/2011	635	7.8	4.84	4.0	48	3,400	4.0	<2.0	<10	680	<3.0	58	880	36	A01, A90
MW-7	11/21/2011	692.7	1.5	273.9	3.6	41	2,800	3.9	<2.0	<10	670	<3.0	59	790	33	
MW-7	2/2/2012	682	7.1	67.33	4.1	39	1,800	3.6	<2.0	<10	710	<3.0	<10	620	<3.0	S05
MW-7	5/14/2012	690	8.0	72.99	5.1	36	1,700	3.2	<2.0	<10	630	<3.0	21	800	12	S05
MW-7	8/13/2012	681	7.1	251.0	4.3	32	1,200	3.0	<2.0	<10	610	<3.0	22	750	17	A01, S05
MW-7	10/25/2012	692	7.6	41.69	4.5	30	1,500	2.8	<2.0	<10	530	<3.0	13	570	8.9	S05
MW-7	3/5/2013	679	6.1	48.33	4.7	29	540	2.8	<2.0	<10	600	<3.0	<10	520	<3.0	S05
MW-7	**5/7/2013**	**671**	**9.3**	**239.3**	**2.9**	**34**	**<100**	**7.2**	**<2.0**	**<10**	**470**	**<3.0**	**<10**	**440**	**<3.0**	**S05**
MW-8	8/4/2011	599	7.9	239.7	5.3	48	390	3.1	<2.0	<10	760	<3.0	28	1,000	13	A01, A90
MW-8	11/21/2011	649.00	1.50	283.9	5.3	48	530	3.4	<2.0	<10	660	1.6	30	780	13	
MW-8	2/2/2012	602	7.00	196.2	5.2	47	<100	3.4	<2.0	<10	730	<3.0	<10	800	3.6	S05
MW-8	5/14/2012	587	8.00	102.8	6.3	45	340	3.1	<2.0	<10	630	<3.0	23	680	10	S05
MW-8	8/13/2012	578	7.3	302.9	5.7	38	210	2.8	<2.0	<10	610	<3.0	12	730	12	A01, S05
MW-8	10/25/2012	587	7.0	70.85	4.8	36	600	3.4	<2.0	<10	560	<3.0	16	600	11	S05
MW-8	3/5/2013	533	5.7	216.6	3.7	43	<100	2.7	<2.0	<10	470	<3.0	<10	220	<3.0	S05
MW-8	**5/7/2013**	**532**	**7.2**	**304.2**	**2.7**	**44**	**<100**	**4.2**	**<2.0**	**<10**	**640**	**<3.0**	**<10**	**700**	**<3.0**	**S05**
MW-9	8/4/2011	629	7.8	333.4	15	45	280	2.3	5.2	<10	45	<3.0	56	660	27	A90
MW-9	11/21/2011	660	2.1	271.1	16.0	38	62 J	1.9	3.8	4.8 J	9.5	1.7 J	83	880	33	
MW-9	2/2/2012	640	6.9	288.1	19	40	<200	2.0	5.2	<10	2.0	<3.0	160	1,500	68	A10, S05
MW-9	5/14/2012	631	4.2	190.8	15	35	<100	2.0	3.3	<10	30	<3.0	34	360	15	S05
MW-9	8/13/2012	621	6.7	319.5	16	39	<100	1.9	<2.0	<10	47	<3.0	39	370	15	S05
MW-9	10/25/2012	616	5.4	171.3	16.0	38	<100	1.9	3.7	<10	240	3.1	20	270	15	S05
MW-9	3/5/2013	573	7.5	264.5	16	38	<100	1.9	<2.0	<10	12	<3.0	<10	37	<3.0	S05
MW-9	**5/7/2013**	**576**	**5.9**	**322.0**	**16**	**40**	**<100**	**2.1**	**2.1**	**<10**	**64**	**<3.0**	**<10**	**160**	**3.6**	**S05**
MW-10	8/4/2011	450	7.0	282.4	21	32	390	1.7	6.7	<10	13	<3.0	19	150	6.3	
MW-10	11/21/2011	546.4	1.12	319.1	19	30	<100	1.3	6.4	7.9 J	2.9	1.0 J	13	92	3.1	
MW-10	2/2/2012	535	6.90	297.6	20	34	<100	1.4	10	11	5.3	<3.0	16	62	3.7	S05
MW-10	5/14/2012	538	5.80	219.5	19	34	<100	1.5	11	11	4.9	<3.0	14	41	<3.0	S05
MW-10	8/13/2012	514	6.1	318.2	20	34	<100	1.4	9.4	11	7.1	<3.0	14	35	3.3	S05
MW-10	10/25/2012	512	6.5	243.9	20	34	<100	1.5	10	<10	96.0	<3.0	13	110	4.3	S05
MW-10	3/5/2013	445	3.8	292.9	19	32	<100	1.4	6.5	<10	5.4	<3.0	<10	30	3.1	S05

Table 2a
Historic Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferrous Iron	Non-Volatile Organic Compounds (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
MW-10	**5/7/2013**	**429**	**6.2**	**333.9**	**17**	**32**	**<100**	**3.2**	**6.9**	**<10**	**20**	**<3.0**	**<10**	**49**	**3.8**	**S05**
MW-11	8/4/2011	685	8.0	518.6	9.8	27	210	3.1	<2.0	<10	250	<3.0	<10	980	3.6	A01, A90
MW-11	11/21/2011	765.5	1.3	240.2	6.6	26	<100	2.5	<2.0	<10	370	<3.0	2.7 J	950	2.6 J	
MW-11	2/2/2012	732	6.8	288.8	7.0	29	<100	2.7	<2.0	<10	540	<3.0	<10	830	<3.0	S05
MW-11	5/14/2012	741	5.1	521.5	6.9	30	<100	2.8	<2.0	<10	450	<3.0	<10	760	4.0	S05
MW-11	8/13/2012	708	6.3	497.2	7.9	31	<100	2.4	<2.0	<10	540	<3.0	<10	620	<3.0	S05
MW-11	10/25/2012	717	5.9	264.1	5.2	28	260	3.0	<2.0	<10	570	<3.0	23.00	620	12	S05
MW-11	3/5/2013	716	3.7	307.8	5.9	28	<100	2.7	<2.0	<10	490	3.2	<10	580	<3.0	S05
MW-11	**5/7/2013**	**702**	**9.5**	**363.4**	**7.5**	**30**	**<100**	**3.2**	**<2.0**	**<10**	**630**	**<3.0**	**<10**	**680**	**4.4**	**S05**

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
umhos/cm	micromhos per centimeter
mg/l	milligrams per liter (approx. equivalent to parts per million, ppm)
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)
mV	millivolts
EC	electrical conductivity
DO	dissolved oxygen
ORP	oxidation reduction potential
120.1	EPA Method 120.1 for EC
SM-4500OG	SM-4500OG for DO
ASTM-D1498	ASTM-D1498 for ORP
300.0	EPA Method 300.0 for sulfate and nitrate as NO3
SM-3500-FeD	SM-3500-FeD for ferric iron
415.1	EPA Method 415.1 for non-volatile organic compounds
7196	EPA Method 7196 for hexavalent chromium
6010B	EPA Method 6010B for dissolved and total chromium
200.8	EPA Method 200.8 for dissolved and total recoverable manganese and vanadium
A01	PQL's and MDL's are raised due to sample dilution.
A10	PQL's and MDL's were raised due to matrix interference.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
S05	The sample holding time was exceeded.
PQL	practical quantitation limit
MDL	method detection lmit

ARCADIS

Attachment A

Field Data Sheets and General Procedures

GETTLER-RYAN INC.

TRANSMITTAL

May 15, 2013
G-R #385600

TO: Ms. Katherine Brandt
Arcadis
2000 Powell Street, 7th Floor
Emeryville, CA 94608

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

RE: Chevron Facility
#351849/0843
1629 Webster Street
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Second Quarter Event of May 7, 2013**

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/351646 0752

WELL CONDITION STATUS SHEET

Client/ Facility #: Chevron #351849 / 0843
Site Address: 1629 Webster Street
City: Alameda, CA

Job #: 385600
Event Date: 5/7/13
Sampler: JOE

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-3	OK	M	R-3	OK				N	N	Longyear 8" 3	N
MW-4	OK							N	N	Longyear 8" 3	N
MW-1	OK			~~S-3~~				N	N	Longyear 8" 3	N
MW-1AR	OK			B-1	OK			N	N	Morrison 8" 2	N
MW-1BR	OK							N	N	Morrison 8" 2	N
MW-11	OK			B-1	OK			N	N	Morrison 8" 2	N

Comments

WELL CONDITION STATUS SHEET

Client/ Facility #: **Chevron #351849 / 0843**
Site Address: **1629 Webster Street**
City: **Alameda, CA**

Job #: **385600**
Event Date: 5-7-13
Sampler: AW

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-7	OK							N	N	morrison / 8" / 2	
mw-5	OK									Erco / 12" / 2	
MW-6	OK									BL / 8" / 3	
MW-8	OK			LB	OK					morrison / 8" / 2	
mw-10	OK									morrison / 12" / 2	
mw-9	OK									morrison / 8" / 2	

Comments

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 #351849 / 0843 | Job Number: 385600
Site Address: 1629 Webster Street | Event Date: 5/7/13 (inclusive)
City: Alameda, CA | Sampler: JOE

Well ID: MW-1 | Date Monitored: 5/7/13
Well Diameter: 2 in.
Total Depth: 20.00 ft.
Depth to Water: 7.00 ft.

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

☐ Check if water column is less then 0.50 ft.

13.00 xVF 0.17 = 2.21 x3 case volume = Estimated Purge Volume: 6.63 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.60

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

Sampling Equipment:
- Disposable Bailer: ✓
- 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: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0920 | Weather Conditions: overcast
Sample Time/Date: 0952 / 5/7/13 | Water Color: gray | Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? No | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 8.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0924	2	7.29	0.25	17.4	PRE: 2.3	PRE: 31
0927	4	7.05	0.26	17.3		
0932	7	6.98	0.26	17.3		
					POST: 2.0	POST: 36

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/ DIPE/EDB/EDC(8260)/ETHANOL(8260)
	~~1 x 1 Liter~~	~~✓~~	~~No~~	~~✓~~	
	1 x 1 Liter	✓	No	✓	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1 L. Amber	✓	No	✓	ORP (ASTM D1948)
	1				TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
	1				
	1				FERROUS IRON (SM20 3500 Fe D)
	1				TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
	1				TOTAL CHROMIUM(6010)
	1				NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1				DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER – RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #351849 / 0843** Job Number: **385600**
Site Address: **1629 Webster Street** Event Date: 5/7/13 (inclusive)
City: **Alameda, CA** Sampler: JOE

Well ID: MW-1AR Date Monitored: 5/7/13
Well Diameter: 2 in.
Total Depth: 29.75 ft.
Depth to Water: 7.23 ft. ☐ Check if water column is less then 0.50 ft.
22.52 xVF 0.17 ~~0.40.59~~ 3.82 x3 case volume = Estimated Purge Volume: 11.48 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.73

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

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

Sampling Equipment:
- Disposable Bailer: ✓
- 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: ____ gal
Amt Removed from Well: ____ gal
Water Removed:
Product Transferred to:

Start Time (purge): 1013 Weather Conditions: Overcast
Sample Time/Date: 1036 / 5/7/13 Water Color: gray Odor: Y / (N)
Approx. Flow Rate: 2 gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 9.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ~~(µmhos/cm - µS)~~ mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1015	4	7.24	0.38	18.1	PRE: ~~+~~ 40.9	PRE: ~~+~~ 14
1017	8	7.01	0.37	18.0		
1019	12	6.73	0.37	18.0		
					POST: 0.1	POST: 22

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1AR	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2				ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1				FERROUS IRON (SM20 3500 Fe D)
	1				TOC (415.1)
	1				HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
	1				TOTAL CHROMIUM(6010)
	1				NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1				DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 | Job Number: 385600
Site Address: 1629 Webster Street | Event Date: 5/7/13 (inclusive)
City: Alameda, CA | Sampler: JDE

Well ID: MW-1BR | Date Monitored: 5/7/13
Well Diameter: 2 in.
Total Depth: 34.48 ft.
Depth to Water: 7.20 ft.

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

☐ Check if water column is less then 0.50 ft.

27.28 xVF 0.17 = 4.63 x3 case volume = Estimated Purge Volume: 13.91 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.65

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	✓
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: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1114 | Weather Conditions: overcast
Sample Time/Date: 1140 / 5/7/13 | Water Color: gray | Odor: Y / (N)
Approx. Flow Rate: 2 gpm. | Sediment Description: Light
Did well de-water? NO | If yes, Time: — | Volume: — gal. DTW @ Sampling: 9.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity mS (~~umhos/cm~~ µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1116	5	6.88	0.40	18.9	PRE: 0.4	PRE: 1
1119	10	6.80	0.38	18.8		
1121	14	6.79	0.38	18.7		
					POST: 1.1	POST: 11

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1BR	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2				ORP (ASTM D1948)
	1				TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1				FERROUS IRON (SM20 3500 Fe D)
	1				TOC (415.1)
	~~1~~				HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
	~~1~~				TOTAL CHROMIUM(6010)
	1				NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1				DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 | Job Number: 385600
Site Address: 1629 Webster Street | Event Date: 5/7/13 (inclusive)
City: Alameda, CA | Sampler: JOE

Well ID: MW-3 | Date Monitored: 5/7/13
Well Diameter: 2 in.
Total Depth: 19.83 ft.
Depth to Water: 6.29 ft.

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

☐ Check if water column is less then 0.50 ft.

13.54 xVF 0.17 = 2.30 x3 case volume = Estimated Purge Volume: 6.90 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.49

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

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

Start Time (purge): 0825 | Weather Conditions: Overcast
Sample Time/Date: 0850 / 5/7/13 | Water Color: gray | Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? NO | If yes, Time: — Volume: — gal. DTW @ Sampling: 8.90

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0829	2	7.40	0.59	17.8	PRE: 1.5	PRE: -2
0833	4	7.30	0.58	17.7		
0839	7	7.13	0.63	17.7		
					POST: 0.8	POST: 8

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	4 1L Poly NP				
	1 1L Poly 1	✓	NO	✓	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 1L Amber	✓	NO	✓	ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5/7/13 (inclusive)
City: Alameda, CA Sampler: JOE

Well ID MW-4 Date Monitored: 5/7/13
Well Diameter 2 in.
Total Depth 16.57 ft.
Depth to Water 6.21 ft.

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

☐ Check if water column is less then 0.50 ft.

10.36 xVF 0.17 = 1.76 x3 case volume = Estimated Purge Volume: 5.28 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.28

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

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

Start Time (purge): 0730 Weather Conditions: Overcast
Sample Time/Date: 0800 / 5/7/13 Water Color: gray Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 8.26

Time (2400 hr.)	Volume (gal.)	pH	Conductivity MS (umhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0733	2	7.30	1.13	18.5	PRE: 3.1	PRE: 28
0734	4	7.25	1.09	18.3		
0737	5.5	7.23	1.08	18.1		
					POST: 4.0	POST: 19

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/ DIPE/EDB/EDC(8260)/ETHANOL(8260)
	~~3 x Liter~~	~~✓~~	~~NO~~	~~YES~~	
	1 x Liter Poly	YES	NO	YES	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x Liter Amber	YES	NO	YES	ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5-7-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-5 Date Monitored: 5-7-13
Well Diameter 2 in.
Total Depth 20.28 ft.
Depth to Water 5.78 ft.

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

☐ Check if water column is less then 0.50 ft.

14.50 xVF .17 = 2.46 x3 case volume = Estimated Purge Volume: 7.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.68

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

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

Start Time (purge): 0840 Weather Conditions: Cloudy
Sample Time/Date: 0910 / 5-7-13 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 7.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0845	2.5	7.77	0.52	18.1	PRE: 1.6	PRE: 145
0850	5.0	7.71	0.71	18.3		
0855	7.5	7.65	0.90	18.7	POST: 1.4	POST: 97

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/ DIPE/EDB/EDC(8260)/ETHANOL(8260)
			1 L NP Poly —		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
			2 x 1L NP Amber —		ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
			1x 500ml NP poly —		HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
			1x 500ml HNO3 poly —		TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5-7-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-6 Date Monitored: 5-7-13
Well Diameter 2 in.
Total Depth 20.15 ft.
Depth to Water 5.85 ft.

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

☐ Check if water column is less then 0.50 ft.

14.30 xVF .17 = 2.43 x3 case volume = Estimated Purge Volume: 7.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.71

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

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

Start Time (purge): 0920 Weather Conditions: Cloudy
Sample Time/Date: 0955 / 5-7-13 Water Color: Cloudy Odor: Y (N)
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 7.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0925	2.5	7.31	0.47	18.1	PRE: 1.2	PRE: 137
0930	5.0	7.36	0.58	18.3		
0935	7.5	7.42	0.66	18.7	POST: 1.3	POST: 99

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/ DIPE/EDB/EDC(8260)/ETHANOL(8260)
			1 L NP Poly —		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
			2 x 1 L NP Amber —		ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
			1 x 500ml NP Poly —		HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
			1 x 500ml HNO3 poly —		TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5-7-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-7 Date Monitored: 5-7-13
Well Diameter 2 in.
Total Depth 29.11 ft.
Depth to Water 6.15 ft.

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

☐ Check if water column is less then 0.50 ft.

22.96 xVF .17 = 3.90 x3 case volume = Estimated Purge Volume: 12.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.74

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

Sampling Equipment:
- Disposable Bailer: ✓
- 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: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____
Product Transferred to: ____

Start Time (purge): 0700 Weather Conditions: Cloudy
Sample Time/Date: 0730 / 5-7-13 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 1.0 gpm. Sediment Description: Clear
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 8.99

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0704	4.0	7.46	0.64	18.8	PRE: 1.2	PRE: 142
0708	8.0	7.42	0.70	19.0		
0712	12.0	7.40	0.75	19.3		
					POST: 1.4	POST: 117

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
				1L NP -	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
			2x	1L Amber -	ORP (ASTM D1948)
			1x 500ml HNO3	Poly -	TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
			1x 250ml HCl	Poly -	FERROUS IRON (SM20 3500 Fe D)
			1x 500ml H2SO4	Amber, -	TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
			1 x 500ml	NP Poly -	NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
			1 x 500ml	HNO3 Poly	DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS: ____

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5-7-13 (inclusive)
City: Alameda, CA Sampler: AV

Well ID MW-8 Date Monitored: 5-7-13
Well Diameter 2 in.
Total Depth 29.55 ft.
Depth to Water 6.41 ft.

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

☐ Check if water column is less then 0.50 ft.

23.14 xVF .17 = 3.93 x3 case volume = Estimated Purge Volume: 12.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.03

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

Sampling Equipment:
- Disposable Bailer: ✓
- 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: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____
Product Transferred to: ____

Start Time (purge): 0745 Weather Conditions: Cloudy
Sample Time/Date: 0826 / 5-7-13 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 1.0 gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: - Volume: - gal. DTW @ Sampling: 9.88

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C) F	D.O. (mg/L)	ORP (mV)
0749	4.0	7.48	0.50	17.2	PRE: 1.3	PRE: 125
0753	8.0	7.42	0.56	19.4		
0757	12.0	7.40	0.62	19.7		
					POST: 1.4	POST: 96

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/ DIPE/EDB/EDC(8260)/ETHANOL(8260)
			1 L NP Poly	—	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
			2 x 1 L NP Amber	—	ORP (ASTM D1948)
			1 x 500ml HNO3 Poly	—	TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
			250		
			1 x 500ml HCL poly	—	FERROUS IRON (SM20 3500 Fe D)
			1 x 500ml H2SO4 Amber	—	TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
			1 x 500 ml NP Poly	—	NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
			1 x 500ml HNO3 Poly	—	DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS: ____

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5-7-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-9 Date Monitored: 5-7-13
Well Diameter 2 in.
Total Depth 24.45 ft.
Depth to Water 6.80 ft.

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

☐ Check if water column is less then 0.50 ft.

17.65 xVF .17 = 3.00 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.33

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

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

Start Time (purge): 1110 Weather Conditions: Sunny
Sample Time/Date: 1200 / 5-7-13 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 9.78

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1120	3.0	7.02	0.54	19.1	PRE: 1.3	PRE: 122
1130	6.0	7.09	0.60	19.3		
1140	9.0	7.1	0.62	19.6		
					POST: 1.3	POST: 99

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/ DIPE/EDB/EDC(8260)/ETHANOL(8260)
			1 L NP Poly	—	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
			2 x 1 L NP Amber	—	ORP (ASTM D1948)
			1 x 500ml HNO3 poly	—	TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
			1 x 250ml HCl poly	—	FERROUS IRON (SM20 3500 Fe D)
			1 x 500ml H2SO4 Amber	—	TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
			1 x 500ml NP Poly	—	NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
			1 x 500ml HNO3 poly	—	DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5-7-13 (inclusive)
City: Alameda, CA Sampler: MW

Well ID MW-10 Date Monitored: 5-7-13
Well Diameter 2 in.
Total Depth 29.06 ft.
Depth to Water 6.92 ft.

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

☐ Check if water column is less then 0.50 ft.

22.14 xVF .17 = 3.76 x3 case volume = Estimated Purge Volume: 11.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.34

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

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

Start Time (purge): 1015 Weather Conditions: Sunny
Sample Time/Date: 1055 / 5-7-13 Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: 1.0 gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 10.77

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1019	4.0	7.82	0.37	18.7	PRE: 1.3	PRE: 94
1023	8.0	7.64	0.42	19.0		
1027	12.0	7.57	0.49	19.2	POST: 1.1	POST: 100

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/ DIPE/EDB/EDC(8260)/ETHANOL(8260)
			1L NP Poly —		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
			2 x 1L Amber nP —		ORP (ASTM D1948)
			1 x 500ml HNO3 Poly —		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
			250		
			1 x 250ml HCl poly —		FERROUS IRON (SM20 3500 Fe D)
			1 x 500ml H2SO4 Amber —		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
			1 x 500ml NP Poly —		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
			1 x 500ml HNO3 poly —		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 5/7/13 (inclusive)
City: Alameda, CA Sampler: JOE

Well ID MW- 11 Date Monitored: 5/7/13
Well Diameter 2 in.
Total Depth 27.52 ft.
Depth to Water 6.75 ft.

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

☐ Check if water column is less then 0.50 ft.

20.77 xVF 0.17 = 3.53 x3 case volume = Estimated Purge Volume: 10.59 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.90

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

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

Start Time (purge): 1207 Weather Conditions: Clear
Sample Time/Date: 1230 5/7/13 Water Color: Odor: Y / N
Approx. Flow Rate: 2 gpm. Sediment Description:
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 7.05

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1209	4	6.59	0.69	20.8	PRE: 0.7	PRE: 19
1211	8	6.54	0.69	19.5		
1213	11	6.61	0.68	19.4		
					POST: 0.7	POST: 19

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 11	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2				ORP (ASTM D1948)
	1				TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1				FERROUS IRON (SM20 3500 Fe D)
	1				TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1				NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1				DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

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

CHAIN OF CUSTODY FORM

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

COC 1 of 2

Union Oil Site ID: 0843	Union Oil Consultant: Arcadis
Site Global ID: T0600102263	Consultant Contact: Katherine Brandt
Site Address: 1629 Webster St. ALAMEDA, CA	Consultant Phone No.: 510-596-9675
	Sampling Company: Gettler-Ryan
Union Oil PM: Roya Kambin	Sampled By (PRINT): JOE D. LEWIS
Union Oil PM Phone No.: 925-790-6270	Sampler Signature: Joe D. Lewis
Charge Code: NWRTB- 0 351849 -0- LAB	BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

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

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions: Samples for Dissolved manganese, Dissolved vanadium, Dissolved chromium were field filtered

ANALYSES REQUIRED

1. [redacted] ORP (ASTM D1498)
2. TPH - G by [redacted] 8015
3. BTEX/MTBE/[redacted] by EPA 8260B
4. Ethanol by EPA 8260B, TBA, TAME, ETBE, DIPE, EDB, EDC
5. [redacted] Specific Conductance (120.1)/D.O. (SM20 4500-O)
6. Total Manganese (200.8), Total Chromium (6010)
7. Total Vanadium 200.8
8. Ferrous Iron (SM20 3500 FeD)
9. TOC (415.1)
10. Nitrate, Sulfate (300.0), Hexavalent Chromium
11. Dissolved Manganese (200.8), Dissolved Chromium (6010), Dissolved Vanadium (200.8)

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	1	2	3	4	5	6	7	8	9	10	11	Notes / Comments
MW-1	W-S-A		13/5/7	0952	14	X	X	X	X	X	X	X	X	X	X	X	
MW-1AR	W-S-A		↓	1036	13	X	X	X	X	X	X	X	X	X	X	X	
MW1BR	W-S-A		↓	1140	14	X	X	X	X	X	X	X	X	X	X	X	
MW-3	W-S-A		↓	0850	9	X	X	X	X	X							
MW-4	W-S-A		↓	0800	9	X	X	X	X	X							
MW-5	W-S-A		↓	0910	11	X	X	X	X	X							
MW-6	W-S-A		↓	0955	11	X	X	X	X	X							
MW-7	W-S-A		↓	0730	14	X	X	X	X	X	X	X	X	X	X	X	
MW-8	W-S-A		↓	0826	14	X	X	X	X	X	X	X	X	X	X	X	
MW-9	W-S-A		↓	1200	14	X	X	X	X	X	X	X	X	X	X	X	
MW-10	W-S-A		↓	1055	14	X	X	X	X	X	X	X	X	X	X	X	
MW-11	W-S-A		↓	1230	14	X	X	X	X	X	X	X	X	X	X	X	

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
Joe D. Lewis	Gettler-Ryan	5/7/13 1530						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
Gary Bogan	BC Lab	5-7-13 1530						

CHAIN OF CUSTODY FORM

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

COC 2 of 2

Union Oil Site ID: 0843
Site Global ID: T0600102263
Site Address: 1629 Webster St. Alameda, CA
Union Oil PM: Koya Kambiz
Union Oil PM Phone No.: 925-790-6270
Charge Code: NWRTB- 0 351849 -0- LAB

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

Union Oil Consultant: Arcadis
Consultant Contact: Katherine Brandy
Consultant Phone No.: 510-596-9675
Sampling Company: Gettler-Ryan
Sampled By (PRINT): JOE D. LEWIS
Sampler Signature:

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

ANALYSES REQUIRED

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID						TPH - Diesel by EPA 8015	TPH - G by GC/MS 8015	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	Hexavalent Chromium (7196)	Dissolved Chromium (6010)	Total Chromium (6010)			Notes / Comments
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers											
MW-5	W-S-A		130507	0910	11						X	X	X			Dissolved manganese
MW-6	W-S-A			0955	11						X	X	X			Dissolved vanadium
QA	W-S-A			NA	2		X	X								Dissolved Chromium were field filtered
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															

Relinquished By	Company	Date / Time:
Joe D. Lewis	Gettler-Ryan	5/7/13 1530

Received By	Company	Date / Time:
Hang Bogan	BC LAB	5-7-13 1550

Relinquished By	Company	Date / Time :

Received By	Company	Date / Time :

Relinquished By	Company	Date / Time:

Received By	Company	Date / Time:

ARCADIS

Attachment B

Historical Groundwater Results from TRC

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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														
2/14/2011	19.13	6.78	0	12.35	1.35	--	580	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	1100	
MW-1AR														
2/14/2011	19.29	7.01	0	12.28	1.19	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	91	
MW-1BR														
2/14/2011	19.13	6.96	0	12.17	1.50	--	80	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
MW-3														
2/14/2011	18.05	6.04	0	12.01	1.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
MW-4														
2/14/2011	18.14	5.94	0	12.20	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5														
2/14/2011	16.45	5.49	0	10.96	0.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-6														
2/14/2011	16.97	5.63	0	11.34	0.91	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	
MW-7														
2/14/2011	17.81	6.33	0	11.48	0.90	--	7900	ND<50	ND<50	ND<50	ND<100	--	13000	
MW-8														
2/14/2011	18.13	6.22	0	11.91	1.38	--	3900	ND<25	ND<25	ND<25	ND<50	--	7100	
MW-9														
2/14/2011	18.75	6.69	0	12.06	1.33	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
MW-10														
2/14/2011	18.84	6.71	0	12.13	1.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
MW-11														
2/14/2011	18.72	6.52	0	12.20	1.48	--	3500	ND<6.2	ND<6.2	ND<6.2	ND<12	--	7400	

Table 1a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferrous (µg/l)	Comments
MW-1													
2/14/2011	99	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.6	2.7	91	ND<10	ND<500	
MW-1AR													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	2.6	ND<10	ND<10	420	
MW-1BR													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	3.7	34	ND<10	290	
MW-3													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-4													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-5													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-6													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-7													
2/14/2011	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	4.1	ND<2.0	43	ND<10	2700	
MW-8													
2/14/2011	ND<500	ND<12000	ND<25	ND<25	ND<25	ND<25	ND<25	3.7	ND<2.0	59	ND<10	440	
MW-9													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	6.6	22	ND<10	230	
MW-10													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	14	18	15	160	
MW-11													
2/14/2011	670	ND<3100	ND<6.2	ND<6.2	ND<6.2	ND<6.2	ND<6.2	3.5	ND<2.0	14	ND<10	240	

Table 1b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
MW-1												
2/14/2011	5.4	530	18	25	8.9	418.5	509	6.45	4.45	355	356	
MW-1AR												
2/14/2011	150	190	21	32	7.3	217.9	537	1.31	1.48	349	362	
MW-1BR												
2/14/2011	73	170	29	28	8.1	286.1	531	1.07	1.74	356	351	
MW-3												
2/14/2011	--	--	--	--	4.9	288.9	587	1.15	2.43	187	188	
MW-4												
2/14/2011	--	--	--	--	9.2	294.6	770	7.02	6.84	187	172	
MW-5												
2/14/2011	--	--	--	--	6.0	317.6	617	1.55	2.81	179	195	
MW-6												
2/14/2011	--	--	--	--	5.2	326.6	542	1.01	2.16	195	198	
MW-7												
2/14/2011	920	1000	2.9	55	8.0	191.4	713	0.94	1.20	198	76	
MW-8												
2/14/2011	830	1400	5.8	75	8.0	267.0	694	2.81	3.44	197	188	
MW-9												
2/14/2011	60	440	8.1	29	9.5	305.5	690	0.78	0.64	349	346	
MW-10												
2/14/2011	43	45	13	30	9.2	326.6	560	2.25	3.77	342	355	
MW-11												
2/14/2011	560	760	3.1	21	9.4	473.7	750	0.88	0.56	337	324	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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														
3/5/1999	16.18	--	--	--	--	86.6	--	ND	2.04	ND	4.06	--	23.9	
6/3/1999	16.18	6.24	0	9.94	--	ND	--	ND	ND	ND	ND	ND	ND	
9/2/1999	16.18	7.19	0	8.99	-0.95	ND	--	ND	ND	ND	ND	ND	ND	
12/14/1999	16.18	8.07	0	8.11	-0.88	ND	--	ND	ND	ND	ND	ND	--	
3/14/2000	16.18	5.47	0	10.71	2.60	ND	--	ND	ND	ND	ND	ND	--	
5/31/2000	16.18	6.22	0	9.96	-0.75	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	16.18	6.82	0	9.36	-0.60	ND	--	ND	ND	ND	ND	ND	--	
12/1/2000	16.18	7.54	0	8.64	-0.72	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	16.18	5.73	0	10.45	1.81	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	16.18	6.43	0	9.75	-0.70	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	16.18	7.12	0	9.06	-0.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	16.18	6.89	0	9.29	0.23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/11/2002	16.18	5.61	0	10.57	1.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	16.18	5.71	0	10.47	-0.10	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
9/3/2002	16.18	--	--	--	--	--	--	--	--	--	--	--	--	Not monitored/sampled
12/12/2002	16.18	7.80	0	8.38	--	--	--	--	--	--	--	--	--	No longer sampled
3/13/2003	16.18	5.94	0	10.24	1.86	--	--	--	--	--	--	--	--	
6/12/2003	16.18	6.10	0	10.08	-0.16	--	--	--	--	--	--	--	--	
9/12/2003	16.18	6.65	0	9.53	-0.55	--	--	--	--	--	--	--	--	
12/31/2003	16.18	5.74	0	10.44	0.91	--	--	--	--	--	--	--	--	Monitored only
2/12/2004	16.18	6.02	0	10.16	-0.28	--	--	--	--	--	--	--	--	Monitored only
6/7/2004	16.18	6.61	0	9.57	-0.59	--	--	--	--	--	--	--	--	Monitored only
9/17/2004	16.18	7.58	0	8.60	-0.97	--	--	--	--	--	--	--	--	Sampled Q1 only
12/11/2004	16.18	6.49	0	9.69	1.09	--	--	--	--	--	--	--	--	Sampled Q1 only
3/15/2005	16.18	5.28	0	10.90	1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
5/17/2005	16.18	5.83	0	10.35	-0.55	--	--	--	--	--	--	--	--	Sampled Q1 only
7/27/2005	16.18	6.52	0	9.66	-0.69	--	--	--	--	--	--	--	--	Sampled Q1 only
11/23/2005	16.18	7.28	0	8.90	-0.76	--	--	--	--	--	--	--	--	Sampled Q1 only
2/24/2006	16.18	6.60	0	9.58	0.68	--	910	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5100	
5/30/2006	16.18	6.48	0	9.70	0.12	--	--	--	--	--	--	--	--	Sampled Q1 only
8/30/2006	16.18	9.51	0	6.67	-3.03	--	--	--	--	--	--	--	--	Sampled Q1 only
11/22/2006	16.18	7.05	0	9.13	2.46	--	220	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	420	
2/23/2007	16.18	6.40	0	9.78	0.65	--	1300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1700	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
5/18/2007	16.18	6.65	0	9.53	-0.25	--	2300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	3300	
8/10/2007	16.18	7.26	0	8.92	-0.61	--	4100	ND<25	ND<25	ND<25	ND<25	--	4300	
11/9/2007	16.18	7.40	0	8.78	-0.14	--	5700	ND<25	ND<25	ND<25	ND<25	--	5400	
2/8/2008	16.18	6.09	0	10.09	1.31	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	4100	
5/16/2008	16.18	6.87	0	9.31	-0.78	--	1800	ND<12	ND<12	ND<12	42	--	3500	
8/15/2008	16.18	7.78	0	8.40	-0.91	--	1200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1900	
11/26/2008	16.18	8.65	0	7.53	-0.87	--	720	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2400	
2/24/2009	19.13	6.73	0	12.40	4.87	--	630	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
5/28/2009	19.13	6.46	0	12.67	0.27	--	1000	ND<10	ND<10	ND<10	ND<20	--	4100	
9/14/2009	19.13	7.60	0	11.53	-1.14	--	1700	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2100	
11/13/2009	19.13	7.83	0	11.30	-0.23	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	19.13	6.72	0	12.41	1.11	--	1600	ND<12	ND<12	ND<12	ND<25	--	3400	
6/7/2010	19.13	6.58	0	12.55	0.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	19.13	7.20	0	11.93	-0.62	--	280	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	1400	
11/11/2010	19.13	8.13	0	11.00	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	19.13	6.78	0	12.35	1.35	--	580	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	1100	
MW-1AR														
5/28/2009	19.29	7.25	0	12.04	--	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	930	
9/14/2009	19.29	7.83	0	11.46	-0.58	--	480	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	890	
11/13/2009	19.29	8.07	0	11.22	-0.24	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	580	
2/5/2010	19.29	7.15	0	12.14	0.92	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	350	
6/7/2010	19.29	6.90	0	12.39	0.25	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	200	
8/3/2010	19.29	7.48	0	11.81	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	81	
11/11/2010	19.29	8.20	0	11.09	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
2/14/2011	19.29	7.01	0	12.28	1.19	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	91	
MW-1BR														
5/28/2009	19.13	6.70	0	12.43	--	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	810	
9/14/2009	19.13	7.80	0	11.33	-1.10	--	450	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	680	
11/13/2009	19.13	7.88	0	11.25	-0.08	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	490	
2/5/2010	19.13	7.84	0	11.29	0.04	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
6/7/2010	19.13	7.28	0	11.85	0.56	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
8/3/2010	19.13	7.44	0	11.69	-0.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
11/11/2010	19.13	8.46	0	10.67	-1.02	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	230	
2/14/2011	19.13	6.96	0	12.17	1.50	--	80	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
MW-2														

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
3/5/1999	15.57	--	0	--	--	34400	--	2070	7710	2340	8240	--	8460	
6/3/1999	15.57	5.96	0	9.61	--	51200	--	1820	7570	2510	7320	6460	8800	
9/2/1999	15.57	6.85	0	8.72	-0.89	17000	--	1000	3100	1400	3700	4000	3720	
12/14/1999	15.57	7.65	0	7.92	-0.80	83000	--	3000	22000	4500	17000	9100	11000	
3/14/2000	15.57	5.26	0	10.31	2.39	31000	--	1600	4600	2300	7300	5700	8700	
5/31/2000	15.57	5.60	0	9.97	-0.34	9970	--	598	1030	487	2060	2500	1670	
8/29/2000	15.57	6.35	0	9.22	-0.75	7900	--	390	1500	280	1900	1800	1300	
12/1/2000	15.57	7.06	0	8.51	-0.71	87500	--	1860	17400	5590	19400	6220	3790	
3/17/2001	15.57	5.98	0	9.59	1.08	4310	--	371	59.0	280	682	321	433	
5/23/2001	15.57	6.97	0	8.60	-0.99	45400	--	374	4490	2790	10900	ND	406	
9/24/2001	15.57	7.56	0	8.01	-0.59	76000	--	430	13000	4700	18000	ND<2000	480	
12/10/2001	15.57	6.52	0	9.05	1.04	82000	--	320	9100	4400	16000	ND<2500	270	
3/11/2002	15.57	5.51	0	10.06	1.01	14000	--	75	1400	1100	3600	ND<250	150	
6/7/2002	15.57	5.73	0	9.84	-0.22	14000	--	120	1200	1400	4700	540	200	
9/3/2002	15.57	6.81	0	8.76	-1.08	10000	--	150	1200	610	2800	510	460	
12/12/2002	15.57	--	--	--	--	--	--	--	--	--	--	--	--	troyed; Replaced with MW
MW-2A														
12/12/2002	15.56	7.45	0	8.11	--	3400	--	80	260	210	1000	380	400	
3/13/2003	--	5.85	0	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.8	2.4	2.4	
6/12/2003	--	6.08	0	--	--	ND<50	--	0.59	0.69	ND<0.50	1.2	6.0	4.7	
9/12/2003	15.56	6.54	0	9.02	--	--	120	1.8	4.2	6.1	20	--	6.6	
12/31/2003	15.56	5.63	0	9.93	0.91	88	--	0.79	1.8	3.6	14	ND<5.0	2.9	
2/12/2004	15.56	5.68	0	9.88	-0.05	160	--	2.6	4.8	13	48	7.2	7.9	
6/7/2004	15.56	6.21	0	9.35	-0.53	94	--	0.80	1.2	2.1	9.1	4.5	3.7	
9/17/2004	15.56	7.16	0	8.40	-0.95	--	230	3.5	6.1	13	41	--	83	
12/11/2004	15.56	5.84	0	9.72	1.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
3/15/2005	15.56	5.52	0	10.04	0.32	--	92	0.84	1.7	2.4	9.8	--	ND<10	
5/17/2005	15.56	5.55	0	10.01	-0.03	--	54	2.1	1.7	1.9	7.0	--	2.9	
7/27/2005	15.56	6.16	0	9.40	-0.61	--	ND<50	0.66	1.1	1.3	4.2	--	3.7	
11/23/2005	15.56	6.88	0	8.68	-0.72	--	120	1.3	2.8	7.8	30	--	10	
2/24/2006	15.56	5.79	0	9.77	1.09	--	84	0.51	1.2	4.2	16	--	7.2	
5/30/2006	15.56	5.62	0	9.94	0.17	--	69	0.90	2.2	3.7	14	--	4.1	
8/30/2006	15.56	6.38	0	9.18	-0.76	--	77	ND<0.50	0.50	1.0	3.3	--	2.5	
11/22/2006	15.56	6.60	0	8.96	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	2.2	--	0.59	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
2/23/2007	15.56	6.05	0	9.51	0.55	--	ND<50	ND<0.50	0.66	ND<0.50	1.1	--	0.72	
5/18/2007	15.56	6.29	0	9.27	-0.24	--	ND<50	ND<0.50	ND<0.50	0.68	1.6	--	0.81	
8/10/2007	15.56	6.90	0	8.66	-0.61	--	ND<50	ND<0.50	ND<0.50	1.6	3.9	--	ND<0.50	
11/9/2007	15.56	6.96	0	8.60	-0.06	--	ND<50	ND<0.50	ND<0.50	2.4	4.4	--	ND<0.50	
2/8/2008	15.56	5.76	0	9.80	1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	15.56	6.50	0	9.06	-0.74	--	ND<50	ND<0.50	ND<0.50	0.56	1.2	--	ND<0.50	
8/15/2008	15.56	7.35	0	8.21	-0.85	--	78	ND<0.50	0.79	2.9	6.5	--	ND<0.50	
11/26/2008	15.56	8.12	0	7.44	-0.77	--	120	0.56	0.66	4.6	6.0	--	1.8	
2/24/2009	18.51	6.19	0	12.32	4.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-3														
3/5/1999	15.11	--	0	--	--	135	--	ND	ND	ND	4.84	--	2.46	
6/3/1999	15.11	5.57	0	9.54	--	ND	--	ND	ND	ND	ND	5.23	12.7	
9/2/1999	15.11	6.50	0	8.61	-0.93	ND	--	ND	ND	ND	ND	13	11	
12/14/1999	15.11	7.28	0	7.83	-0.78	ND	--	ND	ND	ND	ND	ND	--	
3/14/2000	15.11	4.87	0	10.24	2.41	ND	--	ND	ND	ND	ND	7.2	6.3	
5/31/2000	15.11	5.58	0	9.53	-0.71	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	15.11	6.06	0	9.05	-0.48	ND	--	ND	ND	ND	ND	ND	ND	
12/1/2000	15.11	6.76	0	8.35	-0.70	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	15.11	5.09	0	10.02	1.67	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	15.11	5.72	0	9.39	-0.63	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	15.11	6.34	0	8.77	-0.62	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	15.11	6.31	0	8.80	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/11/2002	15.11	5.15	0	9.96	1.16	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	15.11	5.45	0	9.66	-0.30	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/2002	15.11	7.15	0	7.96	-1.70	--	--	--	--	--	--	--	--	No longer sampled
3/13/2003	15.11	5.37	0	9.74	1.78	--	--	--	--	--	--	--	--	
6/12/2003	15.11	5.51	0	9.60	-0.14	--	--	--	--	--	--	--	--	
9/12/2003	15.11	6.03	0	9.08	-0.52	--	--	--	--	--	--	--	--	
12/31/2003	15.11	5.62	0	9.49	0.41	--	--	--	--	--	--	--	--	Monitored only
2/12/2004	15.11	5.51	0	9.60	0.11	--	--	--	--	--	--	--	--	Monitored only
6/7/2004	15.11	5.92	0	9.19	-0.41	--	--	--	--	--	--	--	--	Monitored only
9/17/2004	15.11	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/11/2004	15.11	5.94	0	9.17	--	--	--	--	--	--	--	--	--	Sampled annually
3/11/2005	15.11	4.76	0	10.35	1.18	--	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

February 14, 2011
Former 76 Station 0843

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
5/17/2005	15.11	5.23	0	9.88	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/27/2005	15.11	5.81	0	9.30	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2005	15.11	6.60	0	8.51	-0.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/24/2006	15.11	5.37	0	9.74	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
5/30/2006	15.11	5.08	0	10.03	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.92	
8/30/2006	15.11	5.52	0	9.59	-0.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.51	
11/22/2006	15.11	6.38	0	8.73	-0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.94	
2/23/2007	15.11	5.72	0	9.39	0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.61	
5/18/2007	15.11	5.94	0	9.17	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
8/10/2007	15.11	7.64	0	7.47	-1.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/9/2007	15.11	6.75	0	8.36	0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
2/8/2008	15.11	5.39	0	9.72	1.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	15.11	6.17	0	8.94	-0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
8/15/2008	15.11	7.01	0	8.10	-0.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
11/26/2008	15.11	7.73	0	7.38	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
2/24/2009	18.05	5.98	0	12.07	4.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
5/28/2009	18.05	5.64	0	12.41	0.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/14/2009	18.05	6.88	0	11.17	-1.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/13/2009	18.05	7.02	0	11.03	-0.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	18.05	6.02	0	12.03	1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
6/7/2010	18.05	5.92	0	12.13	0.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	18.05	6.47	0	11.58	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.78	
11/11/2010	18.05	7.40	0	10.65	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	18.05	6.04	0	12.01	1.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
MW-4														
3/5/1999	15.17	--	0	--	--	ND	--	ND	ND	ND	2.44	--	25.2	
6/3/1999	15.17	5.45	0	9.72	--	ND	--	ND	ND	ND	ND	ND	3.96	
9/2/1999	15.17	6.48	0	8.69	-1.03	ND	--	ND	ND	ND	ND	23	27	
12/14/1999	15.17	7.27	0	7.90	-0.79	ND	--	ND	ND	ND	ND	200	270	
3/14/2000	15.17	4.67	0	10.50	2.60	ND	--	ND	ND	ND	ND	46	49	
5/31/2000	15.17	5.48	0	9.69	-0.81	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	15.17	6.10	0	9.07	-0.62	ND	--	ND	ND	ND	ND	6.1	3.2	
12/1/2000	15.17	6.79	0	8.38	-0.69	ND	--	ND	ND	ND	ND	152	101	
3/17/2001	15.17	5.01	0	10.16	1.78	ND	--	ND	ND	ND	ND	ND	--	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
5/23/2001	15.17	5.78	0	9.39	-0.77	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	15.17	6.42	0	8.75	-0.64	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	15.17	6.41	0	8.76	0.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1700	1300	
3/11/2002	15.17	5.05	0	10.12	1.36	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	15.17	5.42	0	9.75	-0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
9/3/2002	15.17	6.50	0	8.67	-1.08	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/2002	15.17	7.18	0	7.99	-0.68	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.9	3.3	
3/13/2003	15.17	5.42	0	9.75	1.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
6/12/2003	15.17	5.60	0	9.57	-0.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
9/12/2003	15.17	6.07	0	9.10	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/2003	15.17	5.63	0	9.54	0.44	750	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	--	
2/12/2004	15.17	5.26	0	9.91	0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2004	15.17	5.82	0	9.35	-0.56	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
9/17/2004	15.17	6.86	0	8.31	-1.04	--	56	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
12/11/2004	15.17	6.01	0	9.16	0.85	--	350	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	380	
3/11/2005	15.17	4.61	0	10.56	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/17/2005	15.17	4.93	0	10.24	-0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/27/2005	15.17	5.74	0	9.43	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2005	15.17	6.59	0	8.58	-0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	23	
2/24/2006	15.17	5.19	0	9.98	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.7	
5/30/2006	15.17	5.07	0	10.10	0.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/30/2006	15.17	6.02	0	9.15	-0.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/2006	15.17	6.37	0	8.80	-0.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	16	
2/23/2007	15.17	5.61	0	9.56	0.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
5/18/2007	15.17	5.87	0	9.30	-0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
8/10/2007	15.17	7.49	0	7.68	-1.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/9/2007	15.17	6.77	0	8.40	0.72	--	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	39	
2/8/2008	15.17	5.10	0	10.07	1.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	15.17	6.06	0	9.11	-0.96	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/15/2008	15.17	6.91	0	8.26	-0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
11/26/2008	15.17	7.71	0	7.46	-0.80	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
2/24/2009	18.14	5.96	0	12.18	4.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.8	
5/28/2009	18.14	5.70	0	12.44	0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/14/2009	18.14	6.76	0	11.38	-1.06	--	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

February 14, 2011
Former 76 Station 0843

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
11/13/2009	18.14	6.97	0	11.17	-0.21	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	18.14	5.55	0	12.59	1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.91	
6/7/2010	18.14	5.78	0	12.36	-0.23	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	18.14	6.47	0	11.67	-0.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/11/2010	18.14	7.42	0	10.72	-0.95	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	18.14	5.94	0	12.20	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5														
12/14/1999	13.34	6.45	0	6.89	--	ND	--	ND	ND	ND	ND	3.5	3.8	
3/14/2000	13.34	4.46	0	8.88	1.99	ND	--	ND	ND	ND	ND	ND	--	
5/31/2000	13.34	5.18	0	8.16	-0.72	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	13.34	5.46	0	7.88	-0.28	ND	--	ND	ND	ND	ND	ND	--	
12/1/2000	13.34	5.95	0	7.39	-0.49	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	13.34	5.36	0	7.98	0.59	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	13.34	5.09	0	8.25	0.27	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	13.34	5.58	0	7.76	-0.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	13.34	5.51	0	7.83	0.07	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/11/2002	13.34	4.70	0	8.64	0.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/3/2002	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/2002	13.34	6.42	0	6.92	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
3/13/2003	13.34	5.12	0	8.22	1.30	ND<50	--	ND<0.50	0.54	ND<0.50	ND<0.50	ND<2.0	--	
6/12/2003	13.34	5.24	0	8.10	-0.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
9/12/2003	13.34	5.53	0	7.81	-0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/2003	13.34	5.11	0	8.23	0.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
2/12/2004	13.34	5.02	0	8.32	0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2004	13.34	5.35	0	7.99	-0.33	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
9/17/2004	13.34	6.10	0	7.24	-0.75	--	--	--	--	--	--	--	--	Sampled annually
12/11/2004	13.34	5.53	0	7.81	0.57	--	--	--	--	--	--	--	--	Sampled annually
3/11/2005	13.34	4.96	0	8.38	0.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/17/2005	13.34	5.04	0	8.30	-0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/27/2005	13.34	5.31	0	8.03	-0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2005	13.34	5.86	0	7.48	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/24/2006	13.34	5.08	0	8.26	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/30/2006	13.34	5.01	0	8.33	0.07	--	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

February 14, 2011
Former 76 Station 0843

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
8/30/2006	13.34	5.65	0	7.69	-0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/2006	13.34	5.82	0	7.52	-0.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
2/23/2007	13.34	4.47	0	8.87	1.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.53	--	ND<0.50	
5/18/2007	13.34	5.51	0	7.83	-1.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
8/10/2007	13.34	6.05	0	7.29	-0.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/9/2007	13.34	6.10	0	7.24	-0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
2/8/2008	13.34	5.06	0	8.28	1.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	13.34	5.69	0	7.65	-0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/15/2008	13.34	6.35	0	6.99	-0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/26/2008	13.34	6.82	0	6.52	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/24/2009	16.45	5.10	0	11.35	4.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/28/2009	16.45	5.12	0	11.33	-0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/14/2009	16.45	6.29	0	10.16	-1.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/13/2009	16.45	6.23	0	10.22	0.06	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	16.45	5.38	0	11.07	0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/7/2010	16.45	5.39	0	11.06	-0.01	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	16.45	5.89	0	10.56	-0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/11/2010	16.45	6.36	0	10.09	-0.47	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	16.45	5.49	0	10.96	0.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-6														
12/14/1999	14.08	6.64	0	7.44	--	ND	--	ND	ND	ND	ND	11000	18000	
3/14/2000	14.08	4.72	0	9.36	1.92	ND	--	ND	ND	ND	ND	19000	21000	
5/31/2000	14.08	5.28	0	8.80	-0.56	ND	--	ND	ND	ND	ND	13200	--	
8/29/2000	14.08	5.39	0	8.69	-0.11	ND	--	ND	ND	ND	ND	270	400	
12/1/2000	14.08	6.11	0	7.97	-0.72	ND	--	ND	ND	ND	ND	6330	3640	
3/17/2001	14.08	6.02	0	8.06	0.09	18700	--	2950	989	1040	3000	10200	11500	
5/23/2001	14.08	5.82	0	8.26	0.20	ND	--	ND	ND	ND	ND	4660	--	
9/24/2001	14.08	6.59	0	7.49	-0.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	160	190	
12/10/2001	14.08	6.50	0	7.58	0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3200	2400	
3/11/2002	14.08	4.81	0	9.27	1.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	120	
6/7/2002	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/3/2002	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/2002	14.08	6.51	0	7.57	--	590	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1500	6200	
3/13/2003	14.08	5.20	0	8.88	1.31	--	--	--	--	--	--	--	5100	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
3/13/2003	14.08	5.20	0	8.88	1.31	1600	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4900	4100	
6/12/2003	14.08	5.38	0	8.70	-0.18	1600	--	ND<10	ND<10	ND<10	ND<10	5200	3700	
9/12/2003	14.08	6.29	0	7.79	-0.91	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	310	
12/31/2003	14.08	5.38	0	8.70	0.91	3300	--	ND<25	ND<25	ND<25	ND<25	3800	--	
2/12/2004	14.08	5.06	0	9.02	0.32	1100	--	ND<10	ND<10	ND<10	ND<10	1900	2800	
6/7/2004	14.08	5.45	0	8.63	-0.39	2500	--	ND<3	ND<3	ND<3	ND<6	3200	2900	
9/17/2004	14.08	6.20	0	7.88	-0.75	--	1300	ND<10	ND<10	ND<10	ND<20	--	2000	
12/11/2004	14.08	5.60	0	8.48	0.60	--	1800	ND<10	ND<10	ND<10	ND<20	--	2700	
3/11/2005	14.08	4.71	0	9.37	0.89	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	2500	
5/17/2005	14.08	4.98	0	9.10	-0.27	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2200	
7/27/2005	14.08	5.48	0	8.60	-0.50	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1100	
11/23/2005	14.08	6.01	0	8.07	-0.53	--	590	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1700	
2/24/2006	14.08	5.12	0	8.96	0.89	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	990	
5/30/2006	14.08	5.04	0	9.04	0.08	--	ND<1200	ND<12	ND<12	ND<12	ND<25	--	560	
8/30/2006	14.08	7.01	0	7.07	-1.97	--	930	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	820	
11/22/2006	14.08	6.16	0	7.92	0.85	--	690	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	620	
2/23/2007	14.08	5.44	0	8.64	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	410	
5/18/2007	14.08	5.63	0	8.45	-0.19	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	620	
8/10/2007	14.08	6.71	0	7.37	-1.08	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	660	
11/9/2007	14.08	6.17	0	7.91	0.54	--	580	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	820	
2/8/2008	14.08	5.20	0	8.88	0.97	--	360	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	570	
5/16/2008	14.08	5.70	0	8.38	-0.50	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	480	
8/15/2008	14.08	6.46	0	7.62	-0.76	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
11/26/2008	14.08	7.01	0	7.07	-0.55	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	400	
2/24/2009	16.97	5.20	0	11.77	4.70	--	250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
5/28/2009	16.97	5.26	0	11.71	-0.06	--	74	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
9/14/2009	16.97	6.30	0	10.67	-1.04	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
11/13/2009	16.97	6.40	0	10.57	-0.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	16.97	5.89	0	11.08	0.51	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
6/7/2010	16.97	5.52	0	11.45	0.37	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	16.97	5.96	0	11.01	-0.44	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	
11/11/2010	16.97	6.54	0	10.43	-0.58	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	16.97	5.63	0	11.34	0.91	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	

MW-7

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
5/28/2009	17.81	8.29	0	9.52	--	--	1100	ND<0.50	ND<0.50	1.4	7.1	--	15000	
9/14/2009	17.81	6.77	0	11.04	1.52	--	7900	ND<25	ND<25	ND<25	ND<50	--	15000	
11/13/2009	17.81	6.78	0	11.03	-0.01	--	5700	ND<10	ND<10	ND<10	ND<20	--	13000	
2/5/2010	17.81	8.50	0	9.31	-1.72	--	4300	ND<12	ND<12	ND<12	ND<25	--	12000	
6/7/2010	17.81	5.74	0	12.07	2.76	--	7100	ND<12	ND<12	ND<12	ND<25	--	16000	
8/3/2010	17.81	6.36	0	11.45	-0.62	--	1600	ND<10	ND<10	ND<10	ND<20	--	12000	
11/11/2010	17.81	7.23	0	10.58	-0.87	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	13000	
2/14/2011	17.81	6.33	0	11.48	0.90	--	7900	ND<50	ND<50	ND<50	ND<100	--	13000	
MW-8														
5/28/2009	18.13	7.42	0	10.71	--	--	850	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12000	
9/14/2009	18.13	6.97	0	11.16	0.45	--	3500	ND<25	ND<25	ND<25	ND<50	--	5600	
11/13/2009	18.13	7.11	0	11.02	-0.14	--	3200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6700	
2/5/2010	18.13	7.38	0	10.75	-0.27	--	2400	ND<10	ND<10	ND<10	ND<20	--	6300	
6/7/2010	18.13	6.07	0	12.06	1.31	--	4200	ND<10	ND<10	ND<10	ND<20	--	9000	
8/3/2010	18.13	6.56	0	11.57	-0.49	--	1200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	5600	
11/11/2010	18.13	7.60	0	10.53	-1.04	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	4900	
2/14/2011	18.13	6.22	0	11.91	1.38	--	3900	ND<25	ND<25	ND<25	ND<50	--	7100	
MW-9														
5/28/2009	18.75	6.24	0	12.51	--	--	1200	ND<0.50	ND<0.50	0.75	15	--	13000	
9/14/2009	18.75	7.36	0	11.39	-1.12	--	280	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	390	
11/13/2009	18.75	7.56	0	11.19	-0.20	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
2/5/2010	18.75	6.70	0	12.05	0.86	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	190	
6/7/2010	18.75	6.59	0	12.16	0.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	66	
8/3/2010	18.75	7.00	0	11.75	-0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	99	
11/11/2010	18.75	8.02	0	10.73	-1.02	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	270	
2/14/2011	18.75	6.69	0	12.06	1.33	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
MW-10														
5/28/2009	18.84	6.69	0	12.15	--	--	700	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3500	
9/14/2009	18.84	7.50	0	11.34	-0.81	--	3300	ND<6.2	ND<6.2	ND<6.2	ND<12	--	4900	
11/13/2009	18.84	7.70	0	11.14	-0.20	--	1500	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	3300	
2/5/2010	18.84	6.66	0	12.18	1.04	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	260	
6/7/2010	18.84	6.56	0	12.28	0.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.9	
8/3/2010	18.84	7.14	0	11.70	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	
11/11/2010	18.84	8.16	0	10.68	-1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
2/14/2011	18.84	6.71	0	12.13	1.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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-11														
5/28/2009	18.72	6.18	0	12.54	--	--	920	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15000	
9/14/2009	18.72	7.45	0	11.27	-1.27	--	11000	ND<25	ND<25	ND<25	ND<50	--	18000	
11/13/2009	18.72	7.51	0	11.21	-0.06	--	6200	ND<10	ND<10	ND<10	ND<20	--	13000	
2/5/2010	18.72	7.50	0	11.22	0.01	--	4500	ND<12	ND<12	ND<12	ND<25	--	13000	
6/7/2010	18.72	6.36	0	12.36	1.14	--	4300	ND<10	ND<10	ND<10	ND<20	--	9500	
8/3/2010	18.72	6.90	0	11.82	-0.54	--	1400	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6000	
11/11/2010	18.72	8.00	0	10.72	-1.10	--	1600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6100	
2/14/2011	18.72	6.52	0	12.20	1.48	--	3500	ND<6.2	ND<6.2	ND<6.2	ND<12	--	7400	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
MW-1													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
3/15/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	62	ND<250	--	--	--	ND<0.50	ND<0.50	5.5	--	--	--	--	
11/22/2006	74	ND<250	--	--	--	ND<0.50	ND<0.50	0.51	--	--	--	--	
2/23/2007	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
5/18/2007	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
8/10/2007	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	--	--	--	--	
11/9/2007	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	--	--	--	--	
2/8/2008	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
5/16/2008	ND<250	ND<6200	--	--	--	ND<12	ND<12	ND<12	--	--	--	--	
8/15/2008	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	2.5	1.3	--	--	--	
5/28/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	1.8	2.0	87	--	
9/14/2009	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	1.4	2.2	220	--	
2/5/2010	ND<250	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--	
8/3/2010	140	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.5	ND<2.0	70	ND<10	
2/14/2011	99	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.6	2.7	91	ND<10	
MW-1AR													
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.6	--	--	--	--	
9/14/2009	110	ND<500	--	--	--	ND<1.0	ND<1.0	ND<1.0	4.5	ND<2.0	170	--	
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.1	ND<2.0	25	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	ND<2.0	ND<10	ND<10	
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.3	ND<2.0	14	ND<10	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	2.6	ND<10	ND<10	
MW-1BR													
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	2.0	--	--	--	--	
9/14/2009	33	ND<500	--	--	--	ND<1.0	ND<1.0	1.9	3.7	ND<2.0	250	--	
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.2	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<2.0	26	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<2.0	25	ND<10	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	ND<2.0	12	ND<10	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	3.7	34	ND<10	
MW-2													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
12/14/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
3/14/2000	1300	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
5/31/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
8/29/2000	250	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
12/1/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
3/17/2001	ND	ND	ND	--	ND	14.8	ND	ND	--	--	--	--	
5/23/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
9/24/2001	ND<5000	ND<5000000	ND<100	--	ND<100	ND<100	ND<100	ND<100	--	--	--	--	
12/10/2001	ND<500	ND<1200000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--	
3/11/2002	ND<1000	ND<5000000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--	--	
6/7/2002	ND<1000	ND<2000000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--	
9/3/2002	ND<1000	ND<5000000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--	--	
MW-2A													
12/12/2002	ND<100	ND<500000	ND<2.0	--	2.3	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
3/13/2003	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
6/12/2003	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
9/12/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
12/31/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
2/12/2004	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
6/7/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	
9/17/2004	6.7	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
12/11/2004	ND<5.0	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
3/15/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	17	--	--	--	
MW-3													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	3.2	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-4													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
12/10/2001	ND<290	ND<710000(	ND<14	--	ND<14	ND<14	ND<14	ND<14	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
12/12/2002	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
9/12/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--	
9/17/2004	ND<5.0	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
12/11/2004	ND<25	ND<250	--	--	--	ND<5.0	ND<2.5	ND<2.5	--	--	--	--	
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	290	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	1.7	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-5													
9/12/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--	
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	59	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	4.5	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-6													
3/17/2001	ND	ND	ND	--	219	ND	ND	ND	--	--	--	--	
9/24/2001	ND<100	ND<1000000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
12/10/2001	ND<500	ND<1200000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--	
3/11/2002	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
12/12/2002	ND<10000	ND<5000000	ND<200	--	ND<200	ND<200	ND<200	ND<200	--	--	--	--	
3/13/2003	ND<5000	ND<2500000	ND<100	--	ND<100	ND<100	ND<100	ND<100	--	--	--	--	
6/12/2003	ND<2000	ND<1000000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--	--	
9/12/2003	--	ND<2500	--	--	--	--	--	--	--	--	--	--	
2/12/2004	ND<2000	ND<10000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--	--	
6/7/2004	ND<200	ND<8000	ND<5	--	ND<5	ND<10	ND<10	ND<10	--	--	--	--	
9/17/2004	ND<100	ND<1000	--	--	--	ND<20	ND<10	ND<10	--	--	--	--	
12/11/2004	ND<100	ND<1000	--	--	--	ND<20	ND<10	ND<10	--	--	--	--	
3/11/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--	
5/17/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--	
7/27/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	1.0	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	0.68	--	--	--	--	
5/30/2006	ND<250	ND<6200	--	--	--	ND<12	ND<12	ND<12	--	--	--	--	
8/30/2006	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
11/22/2006	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	0.52	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	2.7	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	23	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	41	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-7													
5/28/2009	150	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	
9/14/2009	680	ND<12000	--	--	--	ND<25	ND<25	ND<25	9.8	ND<2.0	76	--	
11/13/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
2/5/2010	1600	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--	
6/7/2010	ND<250	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	3.9	ND<2.0	11	ND<10	
8/3/2010	1400	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	3.6	ND<2.0	79	ND<10	
11/11/2010	1200	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.1	ND<2.0	27	ND<10	
2/14/2011	ND<1000	ND<25000	ND<50	--	ND<50	ND<50	ND<50	ND<50	4.1	ND<2.0	43	ND<10	
MW-8													
5/28/2009	36	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	9.7	9.9	ND<2.0	140	--	
9/14/2009	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	14	ND<2.0	60	--	
11/13/2009	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
2/5/2010	960	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
6/7/2010	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	4.0	ND<2.0	21	ND<10	
8/3/2010	670	ND<2500	ND<5.0	ND<0.010	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.9	ND<2.0	74	ND<10	
11/11/2010	ND<1000	ND<25000	ND<50	--	ND<50	ND<50	ND<50	ND<50	3.7	ND<2.0	46	ND<10	
2/14/2011	ND<500	ND<12000	ND<25	--	ND<25	ND<25	ND<25	ND<25	3.7	ND<2.0	59	ND<10	
MW-9													
5/28/2009	40	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
9/14/2009	24	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	3.0	ND<2.0	520	--	
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	6.1	24	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6	2.5	25	ND<10	
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	2.6	24	ND<10	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	6.6	22	ND<10	
MW-10													
5/28/2009	39	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	4.6	2.4	2.0	ND<10	--	
9/14/2009	240	ND<3100	--	--	--	ND<6.2	ND<6.2	ND<6.2	2.7	ND<2.0	24	--	
11/13/2009	ND<50	ND<1200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	--	
2/5/2010	35	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	6.5	15	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	8.7	19	ND<10	
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	10	20	11	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	14	18	15	
MW-11													
5/28/2009	140	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	9.4	--	--	--	--	
9/14/2009	850	ND<12000	--	--	--	ND<25	ND<25	ND<25	3.3	ND<2.0	14	--	
11/13/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
2/5/2010	1600	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--	
6/7/2010	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	3.0	ND<2.0	ND<10	ND<10	
8/3/2010	620	ND<2500	ND<5.0	ND<0.010	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.9	ND<2.0	ND<10	ND<10	
11/11/2010	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.8	ND<2.0	17	ND<10	
2/14/2011	670	ND<3100	ND<6.2	--	ND<6.2	ND<6.2	ND<6.2	ND<6.2	3.5	ND<2.0	14	ND<10	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
MW-1													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	
3/15/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	ND<1.0	500	--	18	--	--	--	4.63	3.22	57	59	
5/28/2009	ND<500	2.4	550	9.9	25	8.6	130	463	0.80	2.95	119	171	
9/14/2009	ND<100	3.7	1600	11	25	6.8	204	429	1.93	3.81	233	146	
2/5/2010	--	--	--	--	--	--	--	--	0.83	1.42	66	71	
8/3/2010	ND<100	1.8	1100	16	24	6.7	333.4	508	1.10	1.68	172	158	
2/14/2011	ND<500	5.4	530	18	25	8.9	418.5	509	6.45	4.45	355	356	
MW-1AR													
5/28/2009	--	--	--	--	--	--	--	--	1.72	0.95	144	177	
9/14/2009	2500	570	830	17	39	7.0	205	655	1.68	1.83	235	187	
11/13/2009	--	--	--	--	--	--	--	--	3.13	2.98	174	16	
2/5/2010	--	--	--	--	--	--	--	--	0.37	0.94	79	75	
6/7/2010	490	210	450	21	30	6.1	273.4	554	0.79	1.27	56	78	
8/3/2010	550	180	230	21	31	8.1	225.1	537	0.39	0.58	148	108	
11/11/2010	370	210	330	20	31	7.6	206.5	545	2.67	2.46	204	216	
2/14/2011	420	150	190	21	32	7.3	217.9	537	1.31	1.48	349	362	
MW-1BR													
5/28/2009	--	--	--	--	--	--	--	--	0.61	1.37	145	165	
9/14/2009	ND<500	230	930	17	59	6.7	207	673	0.46	1.02	228	143	
11/13/2009	--	--	--	--	--	--	--	--	5.74	4.59	151	107	
2/5/2010	--	--	--	--	--	--	--	--	0.38	0.82	85	79	
6/7/2010	380	110	180	27	30	6.6	479.4	539	0.74	1.42	48	10	
8/3/2010	240	130	230	26	28	7.3	271.8	548	0.37	0.43	54	59	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
11/11/2010	250	130	170	ND<0.44	28	7.0	227.8	540	1.78	1.43	212	212	
2/14/2011	290	73	170	29	28	8.1	286.1	531	1.07	1.74	356	351	
MW-2													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	
12/14/1999	--	--	--	--	--	--	--	--	--	--	--	--	
3/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
5/31/2000	--	--	--	--	--	--	--	--	--	--	--	--	
8/29/2000	--	--	--	--	--	--	--	--	--	--	--	--	
12/1/2000	--	--	--	--	--	--	--	--	--	--	--	--	
3/17/2001	--	--	--	--	--	--	--	--	--	--	--	--	
5/23/2001	--	--	--	--	--	--	--	--	--	--	--	--	
9/24/2001	--	--	--	--	--	--	--	--	--	--	--	--	
12/10/2001	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2002	--	--	--	--	--	--	--	--	--	--	--	--	
6/7/2002	--	--	--	--	--	--	--	--	--	--	--	--	
9/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2A													
12/12/2002	--	--	--	--	--	--	--	--	--	--	--	--	
3/13/2003	--	--	--	--	--	--	--	--	--	--	--	--	
6/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
12/31/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/12/2004	--	--	--	--	--	--	--	--	--	--	--	--	
6/7/2004	--	--	--	--	--	--	--	--	--	--	--	--	
9/17/2004	--	--	--	--	--	--	--	--	--	--	--	--	
12/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	
3/15/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	110	ND<1.0	130	--	87	--	--	--	3.38	4.44	50	34	
MW-3													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	ND<1.0	1100	--	130	--	--	--	5.01	2.30	46	49	
5/28/2009	--	--	--	--	--	--	--	--	0.61	4.03	141	85	
9/14/2009	--	--	--	--	--	6.6	196	658	0.49	2.02	146	119	
2/5/2010	--	--	--	--	--	--	--	--	1.04	2.64	338	71	
8/3/2010	--	--	--	--	--	6.7	279.4	601	0.95	2.24	103	103	
2/14/2011	--	--	--	--	--	4.9	288.9	587	1.15	2.43	187	188	
MW-4													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	
12/10/2001	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
12/12/2002	--	--	--	--	--	--	--	--	--	--	--	--	
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
9/17/2004	--	--	--	--	--	--	--	--	--	--	--	--	
12/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	3.1	250	--	130	--	--	--	6.15	4.27	61	64	
5/28/2009	--	--	--	--	--	--	--	--	3.68	3.76	141	55	
9/14/2009	--	--	--	--	--	7.1	195	1020	2.16	2.78	142	63	
2/5/2010	--	--	--	--	--	--	--	--	8.59	7.70	309	326	
8/3/2010	--	--	--	--	--	8.3	280.9	1110	5.26	2.88	102	106	
2/14/2011	--	--	--	--	--	9.2	294.6	770	7.02	6.84	187	172	
MW-5													
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	ND<1.0	720	--	64	--	--	--	5.65	2.58	27	34	
5/28/2009	--	--	--	--	--	--	--	--	1.71	4.32	138	94	
9/14/2009	--	--	--	--	--	4.0	204	609	0.64	2.08	147	115	
2/5/2010	--	--	--	--	--	--	--	--	2.08	2.59	295	71	
8/3/2010	--	--	--	--	--	8.6	288.2	611	7.12	2.08	62	102	
2/14/2011	--	--	--	--	--	6.0	317.6	617	1.55	2.81	179	195	
MW-6													
3/17/2001	--	--	--	--	--	--	--	--	--	--	--	--	
9/24/2001	--	--	--	--	--	--	--	--	--	--	--	--	
12/10/2001	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2002	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/2002	--	--	--	--	--	--	--	--	--	--	--	--	
3/13/2003	--	--	--	--	--	--	--	--	--	--	--	--	
6/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/12/2004	--	--	--	--	--	--	--	--	--	--	--	--	
6/7/2004	--	--	--	--	--	--	--	--	--	--	--	--	
9/17/2004	--	--	--	--	--	--	--	--	--	--	--	--	
12/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	1.2	2300	--	85	--	--	--	3.40	1.29	68	67	
5/28/2009	--	--	--	--	--	--	--	--	1.06	1.85	142	56	
9/14/2009	--	--	--	--	--	7.1	205	595	0.46	1.07	154	118	
2/5/2010	--	--	--	--	--	--	--	--	2.96	2.73	314	135	
8/3/2010	--	--	--	--	--	8.0	291.7	530	0.72	1.35	96	103	
2/14/2011	--	--	--	--	--	5.2	326.6	542	1.01	2.16	195	198	
MW-7													
5/28/2009	--	--	--	--	--	--	--	--	1.24	0.63	160	124	
9/14/2009	3200	2000	2200	4.2	180	6.9	217	1030	0.26	1.35	-13	-53	
11/13/2009	--	--	--	--	--	--	--	--	--	0.76	1	-24	
2/5/2010	--	--	--	--	--	--	--	--	1.46	0.69	-10	-7	
6/7/2010	1200	1200	1500	4.1	72	8.2	342.6	801	0.57	1.10	11	-13	
8/3/2010	4500	1100	1500	3.9	69	8.9	105.6	745	2.18	1.05	112	105	
11/11/2010	2000	1000	1000	2.3	67	6.3	54.88	740	1.45	2.32	176	190	
2/14/2011	2700	920	1000	2.9	55	8.0	191.4	713	0.94	1.20	198	76	
MW-8													
5/28/2009	ND<1000	280	830	12	130	9.0	124	923	2.22	1.38	146	68	
9/14/2009	480	1000	1300	7.7	260	6.2	407	1100	0.28	1.11	151	92	
11/13/2009	--	--	--	--	--	--	--	--	3.51	0.84	111	72	
2/5/2010	--	--	--	--	--	--	--	--	1.17	0.58	88	63	
6/7/2010	620	870	1200	6.1	81	8.3	350.3	791	0.72	1.27	22	35	
8/3/2010	1500	860	1300	6.8	85	8.9	218.5	733	3.03	0.90	88	101	
11/11/2010	430	810	1000	5.2	83	7.7	229.2	724	1.31	0.98	179	170	
2/14/2011	440	830	1400	5.8	75	8.0	267.0	694	2.81	3.44	197	188	
MW-9													
5/28/2009	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
9/14/2009	ND<1000	180	4700	5.0	68	7.3	204	580	3.58	4.16	236	171	
11/13/2009	--	--	--	--	--	--	--	--	5.06	4.22	81	105	
2/5/2010	--	--	--	--	--	--	--	--	0.93	1.25	102	102	
6/7/2010	280	200	1100	6.9	41	7.9	380.3	665	0.95	1.46	61	39	
8/3/2010	160	120	540	5.8	42	7.2	300.6	651	1.02	0.70	48	64	
11/11/2010	ND<500	180	1000	6.0	35	6.5	217.8	686	1.92	2.72	201	207	
2/14/2011	230	60	440	8.1	29	9.5	305.5	690	0.78	0.64	349	346	
MW-10													
5/28/2009	150	280	350	9.1	30	7.1	139	661	0.30	1.76	151	156	
9/14/2009	210	280	380	6.3	33	6.1	205	675	2.19	0.67	235	114	
11/13/2009	--	--	--	--	--	--	--	--	1.20	1.58	95	77	
2/5/2010	--	--	--	--	--	--	--	--	0.83	0.98	87	87	
6/7/2010	260	18	340	10	29	8.1	379.1	490	3.24	3.26	82	84	
8/3/2010	150	10	150	12	27	8.4	315.2	476	3.71	3.62	74	62	
11/11/2010	ND<100	9.2	160	13	28	7.6	175.6	529	3.07	4.23	190	207	
2/14/2011	160	43	45	13	30	9.2	326.6	560	2.25	3.77	342	355	
MW-11													
5/28/2009	--	--	--	--	--	--	--	--	0.22	0.80	1.56	147	
9/14/2009	310	570	740	0.73	37	6.7	192	780	0.81	0.82	224	49	
11/13/2009	--	--	--	--	--	--	--	--	0.35	1.52	53	23	
2/5/2010	--	--	--	--	--	--	--	--	1.33	1.56	280	126	
6/7/2010	310	280	980	1.5	20	7.0	501.3	737	0.70	1.31	97	44	
8/3/2010	100	440	730	3.3	20	6.9	317.6	727	0.54	1.21	12	-20	
11/11/2010	990	610	830	2.7	23	6.6	145.0	718	0.60	2.02	192	211	
2/14/2011	240	560	760	3.1	21	9.4	473.7	750	0.88	0.56	337	324	

ARCADIS

Attachment C

Laboratory Report and Chain-of-Custody Documentation

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 05/21/2013

Kathy Brandt

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Project:	0843
BC Work Order:	1309415
Invoice ID:	B146600

Enclosed are the results of analyses for samples received by the laboratory on 5/7/2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

Table of Contents

#1309415

CHAIN OF CUSTODY FORM

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

COC 1 of 2

Union Oil Site ID: 0843	Union Oil Consultant: Arcadis
Site Global ID: T0600102263	Consultant Contact: Katherine Brandt
Site Address: 1629 Webster St. ALAMEDA, CA	Consultant Phone No.: 510-546-9675
	Sampling Company: Gettler-Ryan
Union Oil PM: Roya Kambin	Sampled By (PRINT): JOE D. LEWIS
Union Oil PM Phone No.: 925-790-6270	Sampler Signature: [signature]
Charge Code: NWRTB-0 351849 -0- LAB	BC Laboratories, Inc. **Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

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

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions: Samples for Dissolved manganese, Dissolved vanadium, Dissolved chromium were field filtered

ANALYSES REQUIRED:
1. ORP (ASTM D1498)
2. TPH - G by 8015
3. BTEX/MTBE by EPA 8260B
4. Ethanol by EPA 8260B, TBA, TAME, ETBE, DIPE, EDB, EDC
5. Specific conductance (120.1)/DO 4500-O (SM20)
6. Total manganese (200.8), Total chromium (6010)
7. Total vanadium 200.8
8. Ferrous Iron (SM20 3500 FeD)
9. TOC (415.1)
10. Nitrate, sulfate (300.0), Hexavalent chromium
11. Dissolved manganese (200.8), Dissolved chromium (6010), Dissolved vanadium (200.8)

SAMPLE ID

	Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	1	2	3	4	5	6	7	8	9	10	11	Notes / Comments
1	MW-1	W-S-A		13/5/7	0952	14	X	X	X	X	X	X	X	X	X	X	X	
2	MW-1AR	W-S-A		↓	1036	13	X	X	X	X	X	X	X	X	X	X	X	
3	MW1BR	W-S-A		↓	1140	14	X	X	X	X	X	X	X	X	X	X	X	
4	MW-3	W-S-A		↓	0850	9	X	X	X	X	X							
5	MW-4	W-S-A		↓	0800	9	X	X	X	X	X							
6	MW-5	W-S-A		↓	0910	11	X	X	X	X	X							
7	MW-6	W-S-A		↓	0955	11	X	X	X	X	X							
8	MW-7	W-S-A		↓	0730	14	X	X	X	X	X	X	X	X	X	X	X	
9	MW-8	W-S-A		↓	0826	14	X	X	X	X	X	X	X	X	X	X	X	
10	MW-9	W-S-A		↓	1200	14	X	X	X	X	X	X	X	X	X	X	X	
11	MW-10	W-S-A		↓	1055	14	X	X	X	X	X	X	X	X	X	X	X	
12	MW-11	W-S-A		↓	1230	14	X	X	X	X	X	X	X	X	X	X	X	

Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time	Relinquished By	Company	Date / Time
[signature]	Gettler-Ryan	5/7/13 1530				[signature]	BCLAB	5-7-13 21:55

Received By	Company	Date / Time	Received By	Company	Date / Time	Received By	Company	Date / Time
Gary Bogen	BcLab	5-7-13 1530	[signature]	BCLAB	5-7-13 18:30	SAS	BCLAB	5/7/13 ~~1830~~ 21:55 SAS 5/7/13

#1309415

CHAIN OF CUSTODY FORM

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

COC 2 of 2

Union Oil Site ID: 0843	Union Oil Consultant: Arcadis
Site Global ID: T0600102263	Consultant Contact: Katherine Brandt
Site Address: 1629 Webster ST. Alameda, CA	Consultant Phone No.: 510-596-9675
Union Oil PM: Roxa Kambin	Sampling Company: Getter-Ryan
Union Oil PM Phone No.: 925-790-6270	Sampled By (PRINT): JOE D. LEWIS
Charge Code: NWRTB-0 351849 -0- LAB	Sampler Signature:

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

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

ANALYSES REQUIRED

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID						TPH - Diesel by EPA 8015	TPH - G by [redacted] 8015	BTEX/MTBE/[redacted] by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	Hexavalent Chromium (7196)	Dissolved Chromium (6010)	Total Chromium (6010)			Notes / Comments
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers											
6 MW-5	W-S-A		13/5/7	0910	11		[redacted]				X	X	X			Dissolved manganes
7 MW-6	W-S-A			0955	11		[redacted]				X	X	X			Dissolved vanadium
13 QA	W-S-A			NA	2		X	X								Dissolved Chromium were field filtered
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															

CHK BY: KR

DISTRIBUTION: MOLLY MEYERS

SUB-OUT ☐

SHORT HOLDING TIME: Cr^{+6}, NO_2, NO_3, OP, SS, DO, Cl_2, BOD, MBAS, COT

Relinquished By	Company	Date / Time:
Joe D. Lewis	Getter-Ryan	5/7/13 1530
[redacted]	BCLAB	5-7-13 21:55

Received By	Company	Date / Time:
Mary Bogan	BCLAB	5-7-13 1530
[redacted]	BCLAB	5-7-13 18:30
SAS	BC Labs	5/7/13 ~~1830~~ 21:55 SAS

Chain of Custody and Cooler Receipt Form for 1309415 Page 3 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 5

Submission #: 1309415

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: VOA Thermometer ID: 207 Date/Time 5/7/13 2155

Temperature: (A) 2.5 °C / (C) 2.4 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	13 8	7 13	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK							A 2			
40ml VOA VIAL	A 6	A 6	A 6	A 6	A 6	A 6	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	GH	G	GH	CD	CD					
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments:

Sample Numbering Completed By: SAS Date/Time: 5/8/13 0037

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1309415 Page 4 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 2 Of 5

Submission #: 1309415

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Qt PE Thermometer ID: 207 Date/Time 5/7/13 2155

Temperature: (A) 1.8 °C / (C) 1.7 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL						B	B	B		
PT PE UNPRESERVED						C	C	C		
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS						D	D	DE		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON								F	F	
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
tA PHENOLICS										
0ml VOA VIAL TRAVEL BLANK										
0ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
0 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
00ml EPA 547										
00ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER						EF	EF	GH	GH	
OZ. JAR										
2 OZ. JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
ERROUS IRON								I		
NCORE										
MART KIT										

Comments:

Sample Numbering Completed By: SAS Date/Time: 5/8/13 0037

A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1309415 Page 5 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 3 Of 5

Submission #: 1309415

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Pt PE Thermometer ID: 207 Date/Time 5/7/13 2155

Temperature: (A) 1.4 °C / (C) 1.3 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6 12	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B	B	B	B	B				
PT PE UNPRESERVED	C	C	C			C				
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	DE	DE	DE			DE				
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	F	F	F			F				
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	I	H	I			I				
ENCORE										
SMART KIT										

Comments:_____

Sample Numbering Completed By: SAS Date/Time: 5/8/13 0037

A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1309415 Page 6 of 7

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 13 08/17/12 Page 4 Of 5

Submission #: 1309415

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Voa Thermometer ID: 207

Temperature: (A) 2.2 °C / (C) 2.1 °C

Date/Time 5/7/13 2155

Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED									B	B
QT INORGANIC CHEMICAL METALS									C	C
PT INORGANIC CHEMICAL METALS									~~DE~~	~~DE~~ SAS 5/7
PT CYANIDE									DE	DE
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										F
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	A (6)	A (6)	A (6)	A (6)	A (6)
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
PT EPA 548										
PT EPA 549										
PT EPA 632										
T EPA 8015M										
T AMBER										
OZ. JAR										GH
OZ. JAR										
OIL SLEEVE										
EB VIAL										
LASTIC BAG										
ERROUS IRON									I	I
NCORE										
MART KIT										

Comments:

Sample Numbering Completed By: SAS Date/Time: 5/8/13 0037

A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1309415 Page 7 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 5 Of 5

Submission #: 1309415

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Voa Thermometer ID: 207

Temperature: (A) 2.2 °C / (C) 2.1 °C

Date/Time 5/7/13 2155

Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
)T GENERAL MINERAL/ GENERAL PHYSICAL	B									
'T PE UNPRESERVED	C									
)T INORGANIC CHEMICAL METALS										
'T INORGANIC CHEMICAL METALS	DE									
'T CYANIDE										
'T NITROGEN FORMS										
'T TOTAL SULFIDE										
oz. NITRATE / NITRITE										
T TOTAL ORGANIC CARBON	F									
T TOX										
T CHEMICAL OXYGEN DEMAND										
tA PHENOLICS										
)ml VOA VIAL TRAVEL BLANK										
)ml VOA VIAL	A (6)	( )	( )	( )	( )	( )	( )	( )	( )	( )
T EPA 413.1, 413.2, 418.1										
T ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
ml VOA VIAL- 504										
T EPA 508/608/8080										
T EPA 515.1/8150										
T EPA 525										
T EPA 525 TRAVEL BLANK										
0ml EPA 547										
0ml EPA 531.1										
T EPA 548										
T EPA 549										
T EPA 632										
T EPA 8015M										
T AMBER	GH	GH								
)Z. JAR										
OZ. JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
RROUS IRON	I									
CORE										
ART KIT										

)ments:_____

)ple Numbering Completed By: SAS Date/Time: 5/8/13 0037

Actual / C = Corrected

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1309415-01	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 09:52
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-1
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-02	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 10:36
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1AR-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-1AR
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-03	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 11:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1BR-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-1BR
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1309415-04	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 08:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-05	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 08:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-4-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-06	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 09:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-5-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1309415-07	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 09:55
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-6
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-08	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 07:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-09	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 08:26
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1309415-10	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 12:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-9
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-11	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 10:55
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1309415-12	**COC Number:**	---	**Receive Date:** 05/07/2013 21:55
	Project Number:	0843	**Sampling Date:** 05/07/2013 12:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11-W-130507	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 1-Field Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1309415-13

COC Number: ---
Project Number: 0843
Sampling Location: ---
Sampling Point: QA-W-130507
Sampled By: GRD

Receive Date: 05/07/2013 21:55
Sampling Date: 05/07/2013 00:00
Sample Depth: ---
Lab Matrix: Water
Sample Type: Trip Blank
Delivery Work Order:
Global ID: T0600102263
Location ID (FieldPoint): QA
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-01 | **Client Sample Name:** 0843, MW-1-W-130507, 5/7/2013 9:52:00AM

Constituent	Result	Units	PQL	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	**230**	**ug/L**	**2.5**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	115	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	105	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	88.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	88.2	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 11:36	JCC	MS-V14	1	BWE0614
2	EPA-8260B	05/08/13	05/08/13 16:12	JCC	MS-V14	5	BWE0614

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1900 Powell Street 12th Floor
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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-01 | **Client Sample Name:** 0843, MW-1-W-130507, 5/7/2013 9:52:00AM

Constituent	Result	Units	PQL	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)	85.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 19:12	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-01 | **Client Sample Name:** 0843, MW-1-W-130507, 5/7/2013 9:52:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**16**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**27**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**435**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**1.5**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**4.9**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**337.5**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 07:57	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 10:19	FRP	MET-1	1	BWE0945
3	SM-3500-FeD	05/08/13	05/08/13 10:47	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 18:36	CDR	TOC2	1	BWE0678
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
6	ASTM-D1498	05/08/13	05/08/13 11:12	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-01 | **Client Sample Name:** 0843, MW-1-W-130507, 5/7/2013 9:52:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**3.2**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**49**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	**3.7**	**ug/L**	**3.0**	**EPA-200.8**	ND		3
Total Chromium	**46**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**440**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**39**	**ug/L**	**3.0**	**EPA-200.8**	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:31	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:26	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/09/13 20:50	SRM	PE-EL1	1	BWE0797
4	EPA-6010B	05/14/13	05/16/13 14:43	JRG	PE-OP2	1	BWE1062
5	EPA-200.8	05/15/13	05/15/13 21:07	srm	PE-EL1	1	BWE1177

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-02 | **Client Sample Name:** 0843, MW-1AR-W-130507, 5/7/2013 10:36:00AM

Constituent	Result	Units	PQL	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	**3.6**	**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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	90.3	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 11:58	JCC	MS-V14	1	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-02 | **Client Sample Name:** 0843, MW-1AR-W-130507, 5/7/2013 10:36:00AM

Constituent	Result	Units	PQL	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)	87.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 19:33	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-02 | **Client Sample Name:** 0843, MW-1AR-W-130507, 5/7/2013 10:36:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**23**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**32**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**394**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**3.5**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**6.8**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**354.7**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 06:35	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 10:25	FRP	MET-1	1	BWE0945
3	SM-3500-FeD	05/08/13	05/08/13 10:47	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 18:50	CDR	TOC2	1	BWE0678
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
6	ASTM-D1498	05/08/13	05/08/13 11:20	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-02 | **Client Sample Name:** 0843, MW-1AR-W-130507, 5/7/2013 10:36:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**2.0**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**78**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		4
Total Chromium	**20**	**ug/L**	**10**	**EPA-6010B**	ND		5
Total Recoverable Manganese	**590**	**ug/L**	**1.0**	**EPA-200.8**	ND		6
Total Recoverable Vanadium	**13**	**ug/L**	**3.0**	**EPA-200.8**	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:31	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:40	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/10/13 11:49	JSS	PE-EL1	1	BWE0797
4	EPA-200.8	05/07/13	05/09/13 21:13	SRM	PE-EL1	1	BWE0797
5	EPA-6010B	05/14/13	05/16/13 14:33	JRG	PE-OP2	1	BWE1062
6	EPA-200.8	05/15/13	05/15/13 21:10	srm	PE-EL1	1	BWE1177

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-03 | **Client Sample Name:** 0843, MW-1BR-W-130507, 5/7/2013 11:40:00AM

Constituent	Result	Units	PQL	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	**3.5**	**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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	91.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 12:21	JCC	MS-V14	1	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-03 | **Client Sample Name:** 0843, MW-1BR-W-130507, 5/7/2013 11:40:00AM

Constituent	Result	Units	PQL	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)	89.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 19:53	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-03 | **Client Sample Name:** 0843, MW-1BR-W-130507, 5/7/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**30**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**30**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**406**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**3.9**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**6.1**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**355.7**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 08:10	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 10:30	FRP	MET-1	1	BWE0945
3	SM-3500-FeD	05/08/13	05/08/13 10:47	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 19:03	CDR	TOC2	1	BWE0678
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
6	ASTM-D1498	05/08/13	05/08/13 11:24	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-03 | **Client Sample Name:** 0843, MW-1BR-W-130507, 5/7/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**2.4**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**260**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		4
Total Chromium	ND	ug/L	10	EPA-6010B	ND		5
Total Recoverable Manganese	**510**	**ug/L**	**1.0**	**EPA-200.8**	ND		6
Total Recoverable Vanadium	**5.0**	**ug/L**	**3.0**	**EPA-200.8**	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:56	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:42	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/10/13 11:52	JSS	PE-EL1	1	BWE0797
4	EPA-200.8	05/07/13	05/09/13 21:17	SRM	PE-EL1	1	BWE0797
5	EPA-6010B	05/14/13	05/16/13 14:57	JRG	PE-OP2	1	BWE1062
6	EPA-200.8	05/15/13	05/15/13 21:13	srm	PE-EL1	1	BWE1177

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-04 | **Client Sample Name:** 0843, MW-3-W-130507, 5/7/2013 8:50:00AM

Constituent	Result	Units	PQL	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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	89.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 12:43	JCC	MS-V14	1	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-04 | **Client Sample Name:** 0843, MW-3-W-130507, 5/7/2013 8:50:00AM

Constituent	Result	Units	PQL	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)	85.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 20:14	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-04 | **Client Sample Name:** 0843, MW-3-W-130507, 5/7/2013 8:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**730**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**6.8**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**354.8**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	05/13/13	05/13/13 11:02	FRP	MET-1	1	BWE0946
2	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
3	ASTM-D1498	05/08/13	05/08/13 11:28	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-05 | **Client Sample Name:** 0843, MW-4-W-130507, 5/7/2013 8:00:00AM

Constituent	Result	Units	PQL	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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	88.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 13:05	JCC	MS-V14	1	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-05 | **Client Sample Name:** 0843, MW-4-W-130507, 5/7/2013 8:00:00AM

Constituent	Result	Units	PQL	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)	86.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 20:35	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-05 | **Client Sample Name:** 0843, MW-4-W-130507, 5/7/2013 8:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**1120**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**6.8**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**351.1**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	05/13/13	05/13/13 11:08	FRP	MET-1	1	BWE0946
2	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
3	ASTM-D1498	05/08/13	05/08/13 11:32	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-06 | **Client Sample Name:** 0843, MW-5-W-130507, 5/7/2013 9:10:00AM

Constituent	Result	Units	PQL	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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	88.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 13:27	JCC	MS-V14	1	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-06 | **Client Sample Name:** 0843, MW-5-W-130507, 5/7/2013 9:10:00AM

Constituent	Result	Units	PQL	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)	89.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 20:55	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-06 | **Client Sample Name:** 0843, MW-5-W-130507, 5/7/2013 9:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**531**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**4.8**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**359.2**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	05/13/13	05/13/13 10:51	FRP	MET-1	1	BWE0946
2	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
3	ASTM-D1498	05/08/13	05/08/13 11:36	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-06 | **Client Sample Name:** 0843, MW-5-W-130507, 5/7/2013 9:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Total Chromium	**45**	**ug/L**	**10**	**EPA-6010B**	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:56	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/08/13	05/09/13 10:44	ARD	PE-OP1	1	BWE0702
3	EPA-6010B	05/14/13	05/16/13 14:59	JRG	PE-OP2	1	BWE1062

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-07 | **Client Sample Name:** 0843, MW-6-W-130507, 5/7/2013 9:55:00AM

Constituent	Result	Units	PQL	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	**22**	**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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	87.4	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 13:50	JCC	MS-V14	1	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-07 | **Client Sample Name:** 0843, MW-6-W-130507, 5/7/2013 9:55:00AM

Constituent	Result	Units	PQL	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)	83.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 21:16	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-07 | **Client Sample Name:** 0843, MW-6-W-130507, 5/7/2013 9:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**537**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**5.2**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**361.6**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	05/13/13	05/13/13 11:13	FRP	MET-1	1	BWE0946
2	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
3	ASTM-D1498	05/08/13	05/08/13 11:40	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-07 | **Client Sample Name:** 0843, MW-6-W-130507, 5/7/2013 9:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Total Chromium	**33**	**ug/L**	**10**	**EPA-6010B**	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:37	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/08/13	05/09/13 10:45	ARD	PE-OP1	1	BWE0702
3	EPA-6010B	05/14/13	05/16/13 15:01	JRG	PE-OP2	1	BWE1062

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-08 | **Client Sample Name:** 0843, MW-7-W-130507, 5/7/2013 7:30:00AM

Constituent	Result	Units	PQL	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	**3100**	**ug/L**	**25**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	**2.5**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
t-Butyl alcohol	**490**	**ug/L**	**10**	**EPA-8260B**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	89.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	89.6	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 14:12	JCC	MS-V14	1	BWE0614
2	EPA-8260B	05/08/13	05/08/13 16:35	JCC	MS-V14	50	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-08 | **Client Sample Name:** 0843, MW-7-W-130507, 5/7/2013 7:30:00AM

Constituent	Result	Units	PQL	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)	86.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 21:37	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-08 | **Client Sample Name:** 0843, MW-7-W-130507, 5/7/2013 7:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**2.9**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**34**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**671**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**7.2**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**9.3**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**239.3**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 08:24	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 11:19	FRP	MET-1	1	BWE0946
3	SM-3500-FeD	05/08/13	05/08/13 10:47	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 19:17	CDR	TOC2	1	BWE0678
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
6	ASTM-D1498	05/08/13	05/08/13 11:44	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-08 | **Client Sample Name:** 0843, MW-7-W-130507, 5/7/2013 7:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**470**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		4
Total Chromium	ND	ug/L	10	EPA-6010B	ND		5
Total Recoverable Manganese	**440**	**ug/L**	**1.0**	**EPA-200.8**	ND		6
Total Recoverable Vanadium	ND	ug/L	3.0	EPA-200.8	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:37	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:47	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/10/13 11:55	JSS	PE-EL1	1	BWE0797
4	EPA-200.8	05/07/13	05/09/13 21:20	SRM	PE-EL1	1	BWE0797
5	EPA-6010B	05/14/13	05/16/13 15:02	JRG	PE-OP2	1	BWE1062
6	EPA-200.8	05/17/13	05/18/13 03:00	SRM	PE-EL1	1	BWE1358

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-09 | **Client Sample Name:** 0843, MW-8-W-130507, 5/7/2013 8:26:00AM

Constituent	Result	Units	PQL	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	**140**	**ug/L**	**2.5**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	88.3	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	86.9	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 14:34	JCC	MS-V14	1	BWE0614
2	EPA-8260B	05/08/13	05/08/13 16:57	JCC	MS-V14	5	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-09 | **Client Sample Name:** 0843, MW-8-W-130507, 5/7/2013 8:26:00AM

Constituent	Result	Units	PQL	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)	88.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 21:57	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-09 | **Client Sample Name:** 0843, MW-8-W-130507, 5/7/2013 8:26:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**2.7**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**44**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**532**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**4.2**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**7.2**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**304.2**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 08:37	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 11:25	FRP	MET-1	1	BWE0946
3	SM-3500-FeD	05/08/13	05/08/13 10:47	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 19:31	CDR	TOC2	1	BWE0678
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
6	ASTM-D1498	05/08/13	05/08/13 11:55	FRP	MET-1	1	BWE0837

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-09 | **Client Sample Name:** 0843, MW-8-W-130507, 5/7/2013 8:26:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**640**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		4
Total Chromium	ND	ug/L	10	EPA-6010B	ND		5
Total Recoverable Manganese	**700**	**ug/L**	**1.0**	**EPA-200.8**	ND		6
Total Recoverable Vanadium	ND	ug/L	3.0	EPA-200.8	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:37	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:48	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/10/13 11:58	JSS	PE-EL1	1	BWE0797
4	EPA-200.8	05/07/13	05/09/13 21:23	SRM	PE-EL1	1	BWE0797
5	EPA-6010B	05/14/13	05/16/13 15:04	JRG	PE-OP2	1	BWE1062
6	EPA-200.8	05/17/13	05/18/13 03:40	SRM	PE-EL1	1	BWE1358

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-10 | **Client Sample Name:** 0843, MW-9-W-130507, 5/7/2013 12:00:00PM

Constituent	Result	Units	PQL	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	**390**	**ug/L**	**2.5**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	154	%	75 - 125 (LCL - UCL)	EPA-8260B		S09	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	107	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	88.4	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	87.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 15:06	JCC	MS-V14	1	BWE0614
2	EPA-8260B	05/08/13	05/09/13 07:01	JCC	MS-V14	5	BWE0614

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Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-10 | **Client Sample Name:** 0843, MW-9-W-130507, 5/7/2013 12:00:00PM

Constituent	Result	Units	PQL	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)	83.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/08/13 22:18	jjh	GC-V9	1	BWE0644

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Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-10 | **Client Sample Name:** 0843, MW-9-W-130507, 5/7/2013 12:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**16**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**40**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**576**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**2.1**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**5.9**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**322.0**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 09:01	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 11:31	FRP	MET-1	1	BWE0946
3	SM-3500-FeD	05/08/13	05/08/13 10:47	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 20:11	CDR	TOC2	1	BWE0679
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0940
6	ASTM-D1498	05/08/13	05/08/13 11:59	FRP	MET-1	1	BWE0837

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Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-10 | **Client Sample Name:** 0843, MW-9-W-130507, 5/7/2013 12:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**2.1**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**64**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		4
Total Chromium	ND	ug/L	10	EPA-6010B	ND		5
Total Recoverable Manganese	**160**	**ug/L**	**1.0**	**EPA-200.8**	ND		6
Total Recoverable Vanadium	**3.6**	**ug/L**	**3.0**	**EPA-200.8**	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:37	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:50	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/10/13 12:01	JSS	PE-EL1	1	BWE0797
4	EPA-200.8	05/07/13	05/09/13 21:26	SRM	PE-EL1	1	BWE0797
5	EPA-6010B	05/14/13	05/16/13 15:06	JRG	PE-OP2	1	BWE1062
6	EPA-200.8	05/17/13	05/18/13 03:43	SRM	PE-EL1	1	BWE1358

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-11 | **Client Sample Name:** 0843, MW-10-W-130507, 5/7/2013 10:55:00AM

Constituent	Result	Units	PQL	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	**2.1**	**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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	105	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	91.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 15:28	JCC	MS-V14	1	BWE0614

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Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-11 | **Client Sample Name:** 0843, MW-10-W-130507, 5/7/2013 10:55:00AM

Constituent	Result	Units	PQL	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)	98.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/10/13 11:40	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-11 | **Client Sample Name:** 0843, MW-10-W-130507, 5/7/2013 10:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**17**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**32**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**429**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**3.2**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**6.2**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**333.9**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 09:15	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 11:36	FRP	MET-1	1	BWE0946
3	SM-3500-FeD	05/08/13	05/08/13 10:47	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 21:31	CDR	TOC2	1	BWE0679
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0941
6	ASTM-D1498	05/08/13	05/08/13 12:03	FRP	MET-1	1	BWE0838

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-11 | **Client Sample Name:** 0843, MW-10-W-130507, 5/7/2013 10:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**6.9**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**20**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		4
Total Chromium	ND	ug/L	10	EPA-6010B	ND		5
Total Recoverable Manganese	**49**	**ug/L**	**1.0**	**EPA-200.8**	ND		6
Total Recoverable Vanadium	**3.8**	**ug/L**	**3.0**	**EPA-200.8**	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:56	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:52	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/10/13 12:04	JSS	PE-EL1	1	BWE0797
4	EPA-200.8	05/07/13	05/09/13 21:29	SRM	PE-EL1	1	BWE0797
5	EPA-6010B	05/14/13	05/16/13 15:07	JRG	PE-OP2	1	BWE1062
6	EPA-200.8	05/17/13	05/18/13 03:47	SRM	PE-EL1	1	BWE1358

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-12 | **Client Sample Name:** 0843, MW-11-W-130507, 5/7/2013 12:30:00PM

Constituent	Result	Units	PQL	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	**1100**	**ug/L**	**12**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	**0.81**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
t-Butyl alcohol	**140**	**ug/L**	**10**	**EPA-8260B**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	91.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	89.1	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 15:50	JCC	MS-V14	1	BWE0614
2	EPA-8260B	05/08/13	05/09/13 06:38	JCC	MS-V14	25	BWE0614

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Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-12 | **Client Sample Name:** 0843, MW-11-W-130507, 5/7/2013 12:30:00PM

Constituent	Result	Units	PQL	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)	96.9	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/10/13 12:01	jjh	GC-V9	1	BWE0644

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1309415-12 | **Client Sample Name:** 0843, MW-11-W-130507, 5/7/2013 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**7.5**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**30**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**702**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**3.2**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**9.5**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**363.4**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	05/08/13	05/08/13 09:28	LD1	IC1	1	BWE0630
2	EPA-120.1	05/13/13	05/13/13 11:42	FRP	MET-1	1	BWE0946
3	SM-3500-FeD	05/08/13	05/08/13 10:49	TDC	KONE-1	1	BWE0737
4	EPA-415.1	05/09/13	05/09/13 21:45	CDR	TOC2	1	BWE0679
5	SM-4500OG	05/13/13	05/13/13 08:25	HPR	YSI-57	1	BWE0941
6	ASTM-D1498	05/08/13	05/08/13 12:30	FRP	MET-1	1	BWE0838

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Reported: 05/21/2013 13:08
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1309415-12 | **Client Sample Name:** 0843, MW-11-W-130507, 5/7/2013 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**630**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		4
Total Chromium	ND	ug/L	10	EPA-6010B	ND		5
Total Recoverable Manganese	**680**	**ug/L**	**1.0**	**EPA-200.8**	ND		6
Total Recoverable Vanadium	**4.4**	**ug/L**	**3.0**	**EPA-200.8**	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/08/13	05/08/13 01:31	LS1	KONE-1	1	BWE0735
2	EPA-6010B	05/07/13	05/09/13 10:56	ARD	PE-OP1	1	BWE0702
3	EPA-200.8	05/07/13	05/10/13 12:07	JSS	PE-EL1	1	BWE0797
4	EPA-200.8	05/07/13	05/09/13 21:33	SRM	PE-EL1	1	BWE0797
5	EPA-6010B	05/14/13	05/16/13 15:09	JRG	PE-OP2	1	BWE1062
6	EPA-200.8	05/17/13	05/18/13 03:50	SRM	PE-EL1	1	BWE1358

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Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1309415-13 | **Client Sample Name:** 0843, QA-W-130507, 5/7/2013 12:00:00AM

Constituent	Result	Units	PQL	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
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.8	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	88.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	05/08/13	05/08/13 11:14	JCC	MS-V14	1	BWE0614

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Reported: 05/21/2013 13:08
Project: 0843
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1309415-13 | **Client Sample Name:** 0843, QA-W-130507, 5/7/2013 12:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**560**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	119	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	05/08/13	05/10/13 12:21	jjh	GC-V9	1	BWE0644

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWE0614						
Benzene	BWE0614-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWE0614-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWE0614-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWE0614-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWE0614-BLK1	ND	ug/L	0.50		
Toluene	BWE0614-BLK1	ND	ug/L	0.50		
Total Xylenes	BWE0614-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BWE0614-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BWE0614-BLK1	ND	ug/L	10		
Diisopropyl ether	BWE0614-BLK1	ND	ug/L	0.50		
Ethanol	BWE0614-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BWE0614-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BWE0614-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BWE0614-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BWE0614-BLK1	89.5	%	80 - 120 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWE0614										
Benzene	BWE0614-BS1	LCS	28.360	25.000	ug/L	113		70 - 130		
Toluene	BWE0614-BS1	LCS	27.710	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BWE0614-BS1	LCS	10.200	10.000	ug/L	102		75 - 125		
Toluene-d8 (Surrogate)	BWE0614-BS1	LCS	10.410	10.000	ug/L	104		80 - 120		
4-Bromofluorobenzene (Surrogate)	BWE0614-BS1	LCS	9.4400	10.000	ug/L	94.4		80 - 120		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BWE0614	Used client sample: Y - Description: MW-1BR-W-130507, 05/07/2013 11:40										
Benzene	MS	1309415-03	ND	30.380	25.000	ug/L		122		70 - 130	
	MSD	1309415-03	ND	29.630	25.000	ug/L	2.5	119	20	70 - 130	
Toluene	MS	1309415-03	ND	29.400	25.000	ug/L		118		70 - 130	
	MSD	1309415-03	ND	28.170	25.000	ug/L	4.3	113	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1309415-03	ND	10.710	10.000	ug/L		107		75 - 125	
	MSD	1309415-03	ND	10.780	10.000	ug/L	0.7	108		75 - 125	
Toluene-d8 (Surrogate)	MS	1309415-03	ND	10.830	10.000	ug/L		108		80 - 120	
	MSD	1309415-03	ND	10.440	10.000	ug/L	3.7	104		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1309415-03	ND	9.4000	10.000	ug/L		94.0		80 - 120	
	MSD	1309415-03	ND	9.4300	10.000	ug/L	0.3	94.3		80 - 120	

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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: BWE0644						
Gasoline Range Organics (C6 - C12)	BWE0644-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BWE0644-BLK1	91.4	%	70 - 130 (LCL - UCL)		

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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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWE0644										
Gasoline Range Organics (C6 - C12)	BWE0644-BS1	LCS	987.94	1000.0	ug/L	98.8		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BWE0644-BS1	LCS	37.908	40.000	ug/L	94.8		70 - 130		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BWE0644	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1308130-51	ND	950.61	1000.0	ug/L		95.1		70 - 130	
	MSD	1308130-51	ND	880.84	1000.0	ug/L	7.6	88.1	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1308130-51	ND	37.064	40.000	ug/L		92.7		70 - 130	
	MSD	1308130-51	ND	36.153	40.000	ug/L	2.5	90.4		70 - 130	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWE0630						
Nitrate as NO3	BWE0630-BLK1	ND	mg/L	0.44		
Sulfate	BWE0630-BLK1	ND	mg/L	1.0		
QC Batch ID: BWE0678						
Non-Volatile Organic Carbon	BWE0678-BLK1	ND	mg/L	0.30		
QC Batch ID: BWE0679						
Non-Volatile Organic Carbon	BWE0679-BLK1	ND	mg/L	0.30		
QC Batch ID: BWE0737						
Iron (II) Species	BWE0737-BLK1	ND	ug/L	100		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWE0630										
Nitrate as NO3	BWE0630-BS1	LCS	22.355	22.134	mg/L	101		90 - 110		
Sulfate	BWE0630-BS1	LCS	99.754	100.00	mg/L	99.8		90 - 110		
QC Batch ID: BWE0678										
Non-Volatile Organic Carbon	BWE0678-BS1	LCS	5.2600	5.0000	mg/L	105		85 - 115		
QC Batch ID: BWE0679										
Non-Volatile Organic Carbon	BWE0679-BS1	LCS	5.3130	5.0000	mg/L	106		85 - 115		
QC Batch ID: BWE0737										
Iron (II) Species	BWE0737-BS1	LCS	2719.8	2500.0	ug/L	109		90 - 110		
QC Batch ID: BWE0945										
Electrical Conductivity @ 25 C	BWE0945-BS1	LCS	315.50	303.00	umhos/cm	104		90 - 110		
QC Batch ID: BWE0946										
Electrical Conductivity @ 25 C	BWE0946-BS1	LCS	314.90	303.00	umhos/cm	104		90 - 110		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BWE0630	Used client sample: Y - Description: MW-1AR-W-130507, 05/07/2013 10:36										
Nitrate as NO3	DUP	1309415-02	23.121	23.351		mg/L	1.0		10		
	MS	1309415-02	23.121	45.748	22.358	mg/L		101		80 - 120	
	MSD	1309415-02	23.121	45.712	22.358	mg/L	0.1	101	10	80 - 120	
Sulfate	DUP	1309415-02	31.555	31.630		mg/L	0.2		10		
	MS	1309415-02	31.555	137.94	101.01	mg/L		105		80 - 120	
	MSD	1309415-02	31.555	137.80	101.01	mg/L	0.1	105	10	80 - 120	
QC Batch ID: BWE0678	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1309404-01	3.4460	3.4350		mg/L	0.3		10		
	MS	1309404-01	3.4460	8.8251	5.0251	mg/L		107		80 - 120	
	MSD	1309404-01	3.4460	8.8362	5.0251	mg/L	0.1	107	10	80 - 120	
QC Batch ID: BWE0679	Used client sample: Y - Description: MW-9-W-130507, 05/07/2013 12:00										
Non-Volatile Organic Carbon	DUP	1309415-10	2.1160	2.1310		mg/L	0.7		10		
	MS	1309415-10	2.1160	7.2754	5.0251	mg/L		103		80 - 120	
	MSD	1309415-10	2.1160	7.2211	5.0251	mg/L	0.7	102	10	80 - 120	
QC Batch ID: BWE0737	Used client sample: Y - Description: MW-1-W-130507, 05/07/2013 09:52										
Iron (II) Species	DUP	1309415-01	98.128	ND		ug/L			10		A02
QC Batch ID: BWE0837	Used client sample: Y - Description: MW-1-W-130507, 05/07/2013 09:52										
Oxidation Reduction Potential (Eobs_Ag/	DUP	1309415-01	337.51	348.44		mV	3.2		10		
QC Batch ID: BWE0838	Used client sample: Y - Description: MW-10-W-130507, 05/07/2013 10:55										
Oxidation Reduction Potential (Eobs_Ag/	DUP	1309415-11	333.88	353.09		mV	5.6		10		
QC Batch ID: BWE0940	Used client sample: Y - Description: MW-1-W-130507, 05/07/2013 09:52										
Dissolved Oxygen	DUP	1309415-01	4.9000	4.9000		mg O/L	0		10		
QC Batch ID: BWE0941	Used client sample: Y - Description: MW-10-W-130507, 05/07/2013 10:55										
Dissolved Oxygen	DUP	1309415-11	6.2000	6.3000		mg O/L	1.6		10		
QC Batch ID: BWE0945	Used client sample: N										
Electrical Conductivity @ 25 C	DUP	1309417-01	819.00	824.70		umhos/cm	0.7		10		
QC Batch ID: BWE0946	Used client sample: Y - Description: MW-5-W-130507, 05/07/2013 09:10										
Electrical Conductivity @ 25 C	DUP	1309415-06	531.00	535.60		umhos/cm	0.9		10		

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Project Number: 351849
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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWE0702						
Dissolved Chromium	BWE0702-BLK1	ND	ug/L	10		
QC Batch ID: BWE0735						
Hexavalent Chromium	BWE0735-BLK1	ND	ug/L	2.0		
QC Batch ID: BWE0797						
Dissolved Manganese	BWE0797-BLK1	ND	ug/L	1.0		
Dissolved Vanadium	BWE0797-BLK1	ND	ug/L	3.0		
QC Batch ID: BWE1062						
Total Chromium	BWE1062-BLK1	ND	ug/L	10		
QC Batch ID: BWE1177						
Total Recoverable Manganese	BWE1177-BLK1	ND	ug/L	1.0		
Total Recoverable Vanadium	BWE1177-BLK1	ND	ug/L	3.0		
QC Batch ID: BWE1358						
Total Recoverable Manganese	BWE1358-BLK1	ND	ug/L	1.0		
Total Recoverable Vanadium	BWE1358-BLK1	ND	ug/L	3.0		

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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWE0702										
Dissolved Chromium	BWE0702-BS1	LCS	180.39	200.00	ug/L	90.2		85 - 115		
QC Batch ID: BWE0735										
Hexavalent Chromium	BWE0735-BS1	LCS	51.394	50.000	ug/L	103		85 - 115		
QC Batch ID: BWE0797										
Dissolved Manganese	BWE0797-BS1	LCS	89.691	100.00	ug/L	89.7		85 - 115		
Dissolved Vanadium	BWE0797-BS1	LCS	35.650	40.000	ug/L	89.1		85 - 115		
QC Batch ID: BWE1062										
Total Chromium	BWE1062-BS1	LCS	195.49	200.00	ug/L	97.7		85 - 115		
QC Batch ID: BWE1177										
Total Recoverable Manganese	BWE1177-BS1	LCS	99.120	100.00	ug/L	99.1		85 - 115		
Total Recoverable Vanadium	BWE1177-BS1	LCS	39.791	40.000	ug/L	99.5		85 - 115		
QC Batch ID: BWE1358										
Total Recoverable Manganese	BWE1358-BS1	LCS	99.221	100.00	ug/L	99.2		85 - 115		
Total Recoverable Vanadium	BWE1358-BS1	LCS	38.725	40.000	ug/L	96.8		85 - 115		

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Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BWE0702	Used client sample: Y - Description: MW-1-W-130507, 05/07/2013 09:52										
Dissolved Chromium	DUP	1309415-01	3.1863	ND		ug/L			20		A02
	MS	1309415-01	3.1863	194.04	204.08	ug/L		93.5		75 - 125	
	MSD	1309415-01	3.1863	197.90	204.08	ug/L	2.0	95.4	20	75 - 125	
QC Batch ID: BWE0735	Used client sample: Y - Description: MW-1-W-130507, 05/07/2013 09:52										
Hexavalent Chromium	DUP	1309415-01	3.2110	3.0510		ug/L	5.1		10		
	MS	1309415-01	3.2110	52.473	52.632	ug/L		93.6		85 - 115	
	MSD	1309415-01	3.2110	52.703	52.632	ug/L	0.4	94.0	10	85 - 115	
QC Batch ID: BWE0797	Used client sample: Y - Description: MW-1-W-130507, 05/07/2013 09:52										
Dissolved Manganese	DUP	1309415-01	48.544	47.340		ug/L	2.5		20		
	MS	1309415-01	48.544	136.72	102.04	ug/L		86.4		70 - 130	
	MSD	1309415-01	48.544	138.39	102.04	ug/L	1.2	88.0	20	70 - 130	
Dissolved Vanadium	DUP	1309415-01	3.7380	3.5680		ug/L	4.7		20		
	MS	1309415-01	3.7380	39.431	40.816	ug/L		87.4		70 - 130	
	MSD	1309415-01	3.7380	40.122	40.816	ug/L	1.7	89.1	20	70 - 130	
QC Batch ID: BWE1062	Used client sample: Y - Description: MW-1AR-W-130507, 05/07/2013 10:36										
Total Chromium	DUP	1309415-02	19.894	20.650		ug/L	3.7		20		
	MS	1309415-02	19.894	228.88	200.00	ug/L		104		75 - 125	
	MSD	1309415-02	19.894	224.79	200.00	ug/L	1.8	102	20	75 - 125	
QC Batch ID: BWE1177	Used client sample: N										
Total Recoverable Manganese	DUP	1309373-01	84.090	84.536		ug/L	0.5		20		
	MS	1309373-01	84.090	176.46	100.00	ug/L		92.4		70 - 130	
	MSD	1309373-01	84.090	186.75	100.00	ug/L	5.7	103	20	70 - 130	
Total Recoverable Vanadium	DUP	1309373-01	ND	ND		ug/L			20		
	MS	1309373-01	ND	38.636	40.000	ug/L		96.6		70 - 130	
	MSD	1309373-01	ND	40.500	40.000	ug/L	4.7	101	20	70 - 130	
QC Batch ID: BWE1358	Used client sample: Y - Description: MW-7-W-130507, 05/07/2013 07:30										
Total Recoverable Manganese	DUP	1309415-08	440.14	434.46		ug/L	1.3		20		
	MS	1309415-08	440.14	519.20	100.00	ug/L		79.1		70 - 130	
	MSD	1309415-08	440.14	526.41	100.00	ug/L	1.4	86.3	20	70 - 130	
Total Recoverable Vanadium	DUP	1309415-08	2.0160	ND		ug/L			20		
	MS	1309415-08	2.0160	37.928	40.000	ug/L		89.8		70 - 130	
	MSD	1309415-08	2.0160	39.154	40.000	ug/L	3.2	92.8	20	70 - 130	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
S05	The sample holding time was exceeded.
S09	The surrogate recovery on the sample for this compound was not within the control limits.