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

October 8, 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
Third 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:
Third 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:
October 8, 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

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

Jacob Henry, P.G.,
Professional Geologist

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
THIRD QUARTER 2013
October 8, 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 Inc., conducted groundwater monitoring and sampling on August 8, 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).

   As discussed in the August 23, 2013 meeting with ACEH, groundwater monitoring wells are separated based on screen interval and zone. The site location map, the site plan, and the groundwater contour maps are presented on **Figures 1** through **4**. Concentration maps for TPH-g, benzene, and MTBE are on **Figures 5** through **8**. 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**.

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

1. Perform groundwater monitoring and related reporting during fourth quarter 2013.

2.

Current Phase of Project:	Groundwater Monitoring
Site Use:	Vacant Lot – Planned Redevelopment
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
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

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
THIRD QUARTER 2013
October 8, 2013

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

Groundwater Use Designation:		Irrigation		
Current Remediation Techniques:		None		
Permits for Discharge (No.):		None		
Approximate Depth to Groundwater for Shallow Monitoring Wells:		6.70 (MW-5) – 8.05 (MW-1) feet below top of casing Measured X Estimated		
Approximate Depth to Groundwater for Submerged Monitoring Wells:		7.05 (MW-7) – 8.25 (MW-1AR) feet below top of casing Measured X Estimated		
Approximate Groundwater Elevation for Shallow Monitoring Wells:		9.75 (MW-5) – 11.08 (MW-1) feet relative to mean sea level Measured X Estimated		
Approximate Groundwater Elevation for Submerged Monitoring Wells:		10.73 (MW-8) - 11.04 (MW-1AR) feet relative to mean sea level Measured X Estimated		
Groundwater Gradient for Shallow Monitoring Wells:	0.005 ft/ft	(Magnitude)	Northeast	(Direction)
Groundwater Gradient for Submerged Monitoring Wells:	0.004 ft/ft	(Magnitude)	Northeast	(Direction)

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
THIRD QUARTER 2013
October 8, 2013

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

DISCUSSION:

Groundwater conditions during the third quarter 2013 remained consistent with previous quarters.

Shallow interval: The maximum dissolved concentrations of MTBE (420 micrograms per liter [µg/L]) and TBA (190µg/L) were detected in the samples collected from MW-9. TPHg, benzene, toluene, ethylbenzene, total xylenes, TAME, ETBE, DIPE, EDB, EDC, and ethanol were not detected above the laboratory reporting limits for wells sampled.

Additionally, the maximum concentrations of nitrate as NO3 (15 milligrams per liter [mg/L]) and sulfate (40 mg/L) were detected in well MW-9. The maximum concentration of ferric iron (110 µg/L) was detected in well MW-1. The maximum concentrations of non-volatile organic compounds (3.3 mg/L) and dissolved manganese (79 µg/L) were detected in well MW-9. The maximum concentrations of total chromium (65 µg/L), total recoverable manganese (470 µg/L), and total recoverable vanadium (36 µg/L) were detected in well MW-1. Hexavalent chromium, dissolved vanadium, and dissolved chromium were not detected above the laboratory reporting limits for all shallow wells sampled.

Submerged interval: The maximum dissolved concentrations of MTBE (2,300 µg/L), TBA (1,600 µg/L), and TAME (2.7 µg/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 NO3 (31 mg/L) was detected in well MW-1BR. The maximum concentration of sulfate (38 mg/L) was detected in well MW-8. The maximum concentration of ferric iron (790 µg/L) was detected in well MW-7. The maximum concentration of non-volatile organic compounds (4.7 mg/L) was detected in well MW-11. The maximum concentration of hexavalent chromium (5.0 µg/L) was detected in well MW-10. The maximum concentration of dissolved manganese (470 µg/L) was detected in both wells MW-7 and MW-8. The maximum concentrations of total chromium (12 µg/L) and total recoverable manganese (640 µg/L) were detected in well MW-7. The maximum concentration of total recoverable vanadium (5.9 µg/L) was detected in well MW-1BR. Dissolved chromium and dissolved vanadium were not detected above the laboratory reporting limits for all submerged wells sampled.

Groundwater elevations at the service station vary by approximately one-and-a-third feet, creating a relatively gentle hydraulic gradient of 0.005 foot per foot for the shallow interval and 0.004 foot per foot for the submerged interval both intervals were 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 shallow onsite plume stability. ARCADIS requests 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
THIRD QUARTER 2013
October 8, 2013

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

ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Shallow Zone Groundwater Contour Map
Figure 4: Submerged Zone Groundwater Contour Map
Figure 5: TPH-g Concentration Map
Figure 6: Benzene Concentration Map
Figure 7: Shallow Zone MTBE Concentration Map
Figure 8: Submerged Zone 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

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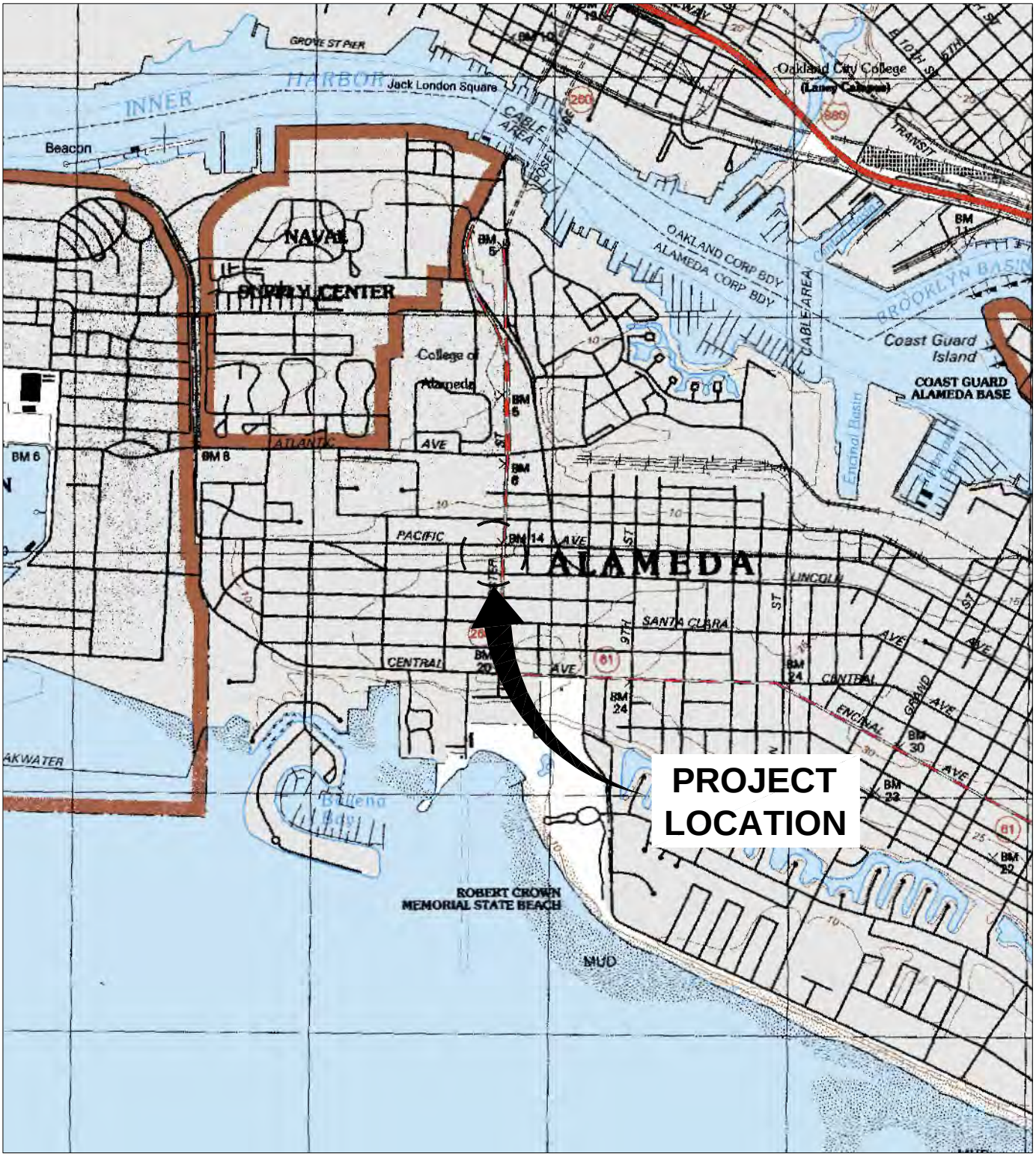
Figures



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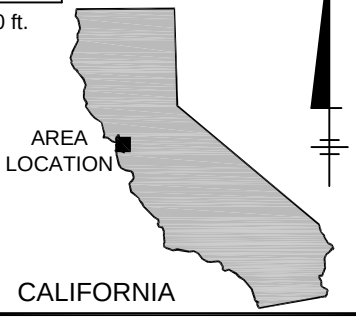
0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



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ALAMEDA, CALIFORNIA

SITE LOCATION MAP

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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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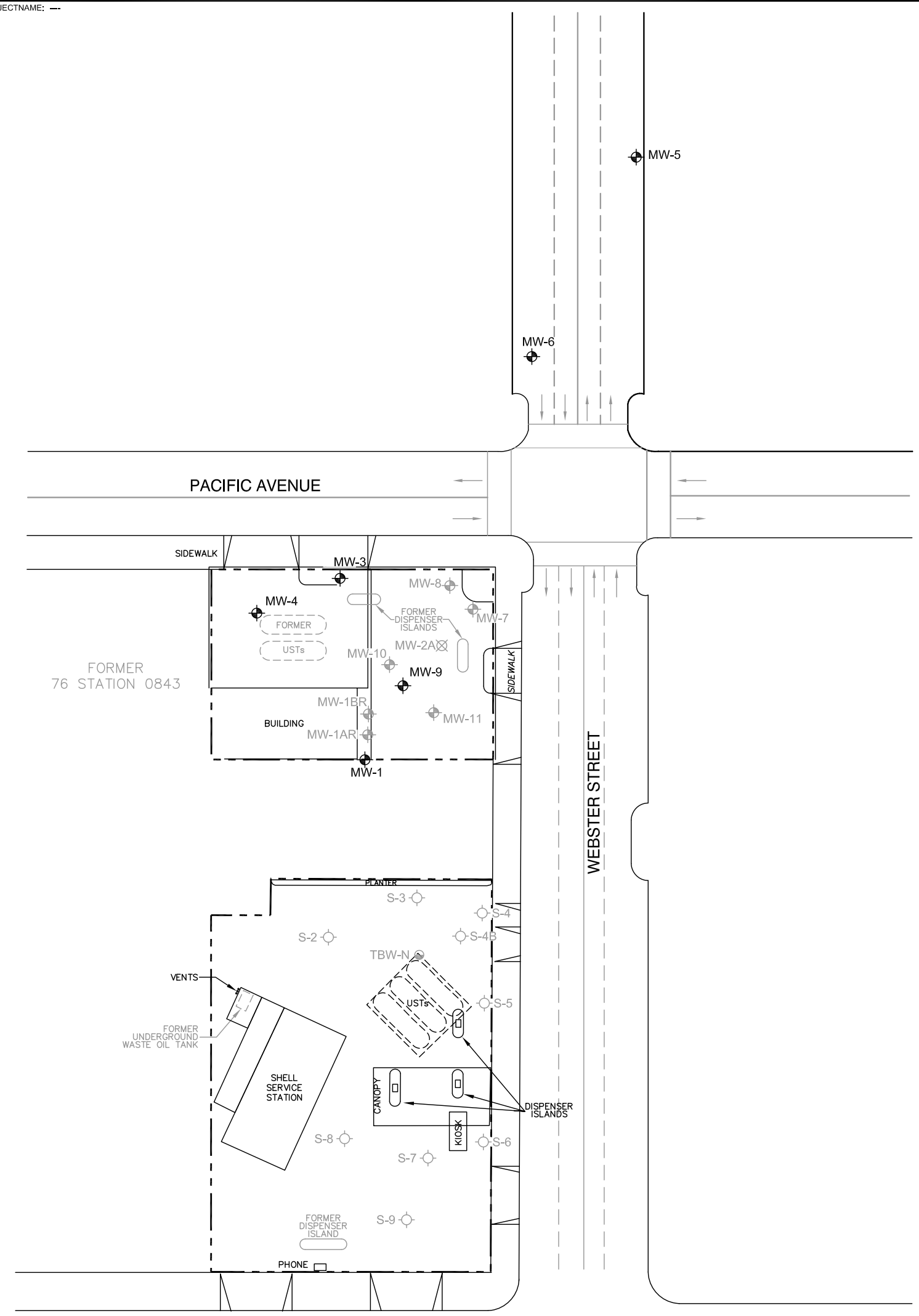

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION SHALLOW MONITORING WELL
- MW-1AR FORMER 76 STATION SUBMERGED 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. LL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. THE ADJACENT SHELL SITE HAS RECEIVED CLOSURE AND WILL NO LONGER BE SAMPLED.

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SITE PLAN

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FIGURE
2

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
\\arcadis-us.com\OfficeData\CostaMesa-CA\ENVCAD\CostaMesa\RETURN-TO\Petaluma-CA\B0047584\2013\00002\2Q13\47584W01.dwg LAYOUT: 3 SAVED: 9/9/2013 2:21 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ARCADIS_PETALUMA.CTB PLOTTED: 9/9/2013 2:21 PM
BY: MURESAN, ELENA

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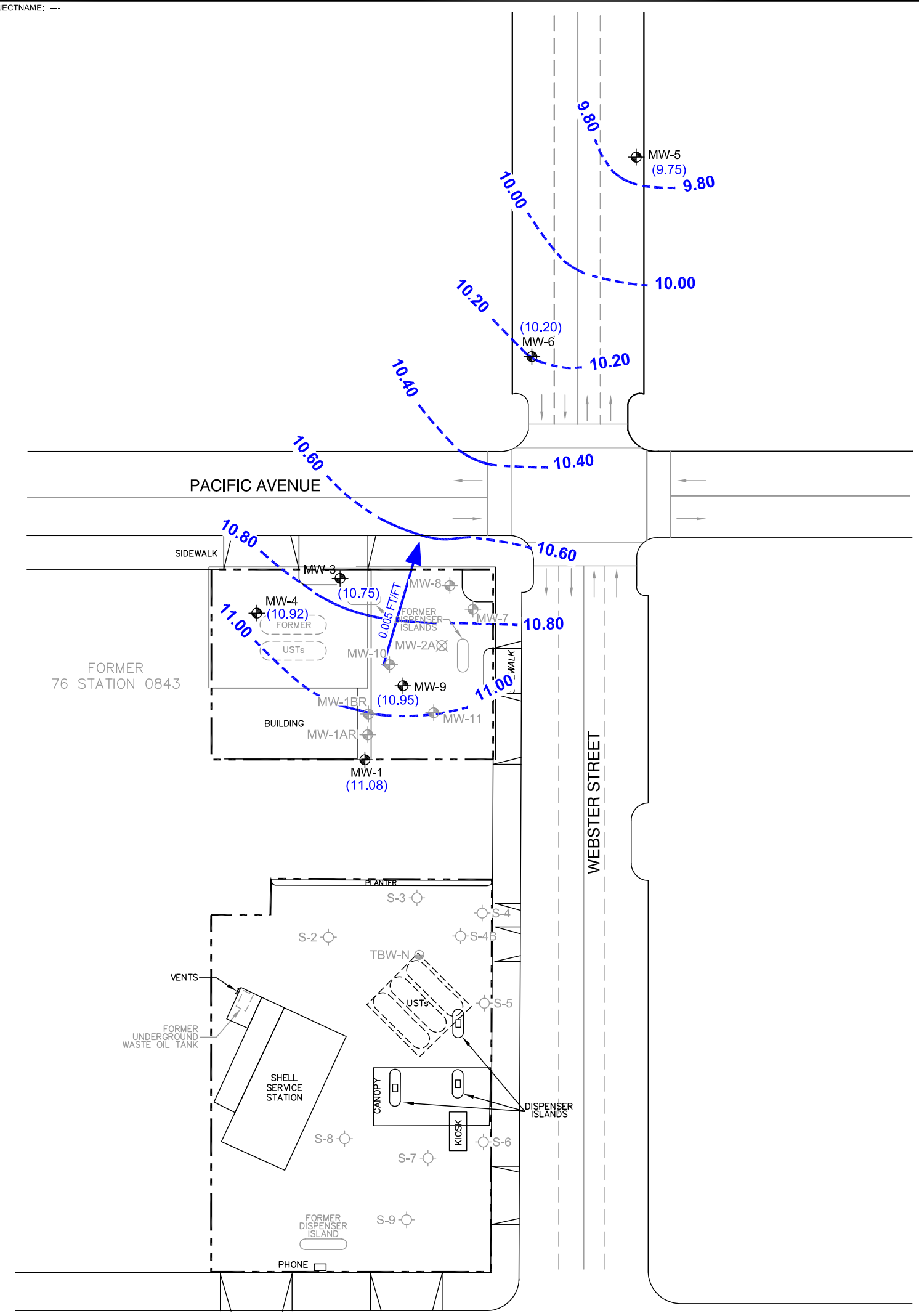

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION SHALLOW ZONE MONITORING WELL
- MW-1AR FORMER 76 STATION SUBMERGED ZONE MONITORING WELL
- S-9 SHELL SERVICE STATION MONITORING WELL
- TBW-N SHELL TANK BACKFILL MONITORING WELL
- MW-2A ABANDONED WELL
- (11.08) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 11.00 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- 0.005 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)

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.
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SHALLOW ZONE GROUNDWATER ELEVATION CONTOUR MAP AUGUST, 2013

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FIGURE
3

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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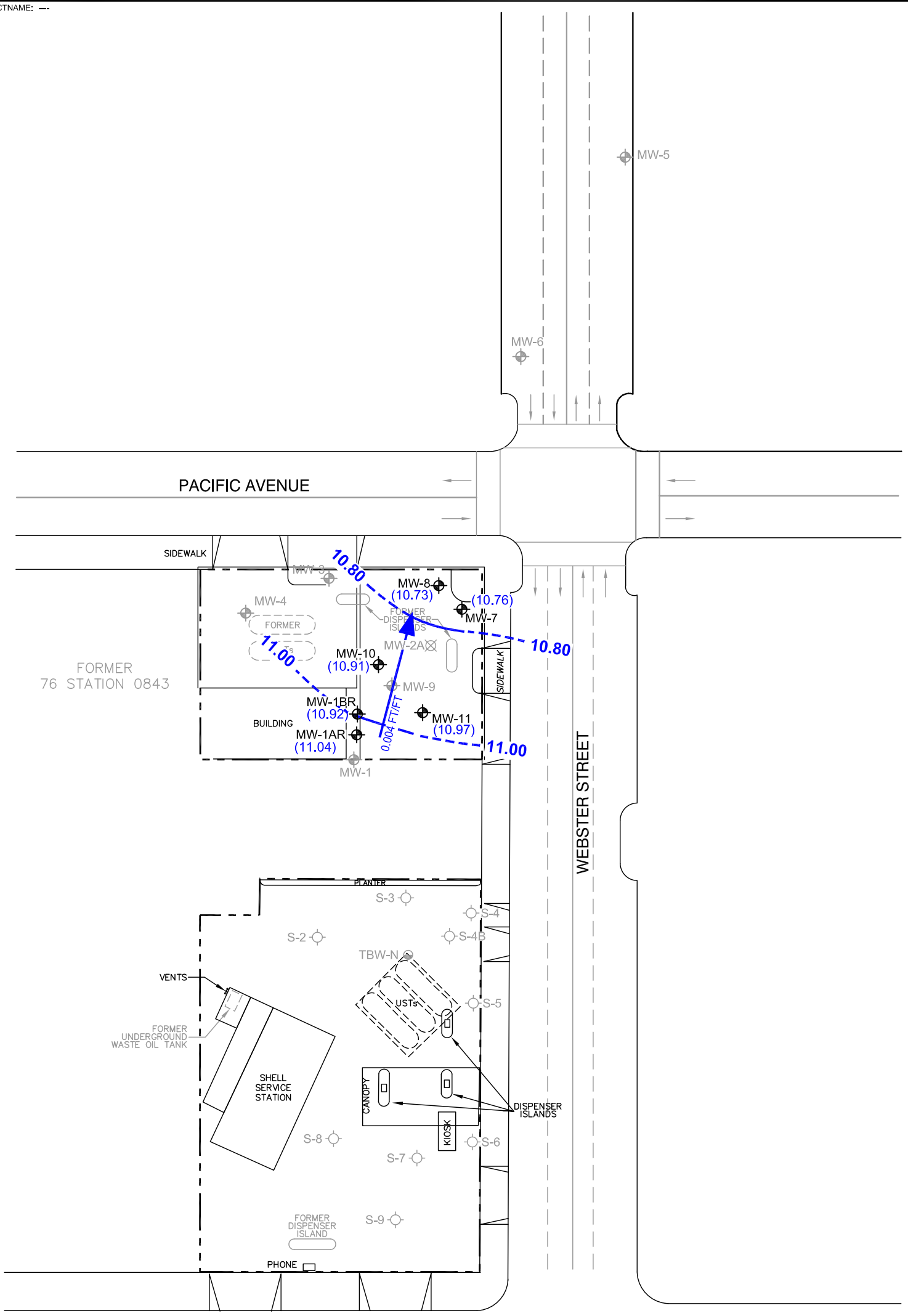

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION SHALLOW ZONE MONITORING WELL
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- 11.00 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- 0.004 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)

0 50' 100'
GRAPHIC SCALE

NOTES:

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SUBMERGED ZONE GROUNDWATER ELEVATION CONTOUR MAP AUGUST 8, 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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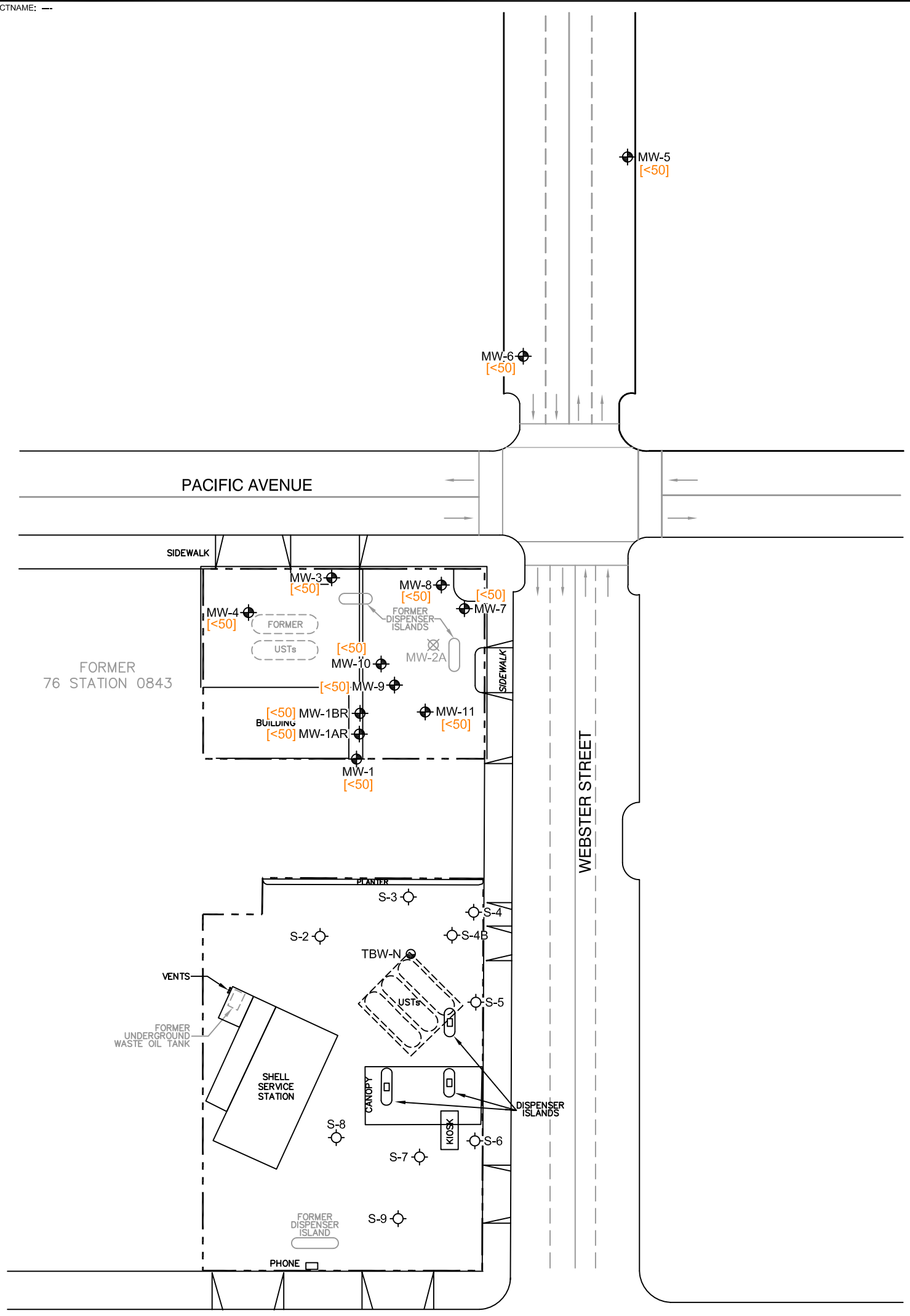

LEGEND

- 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
- [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.

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TPH-g CONCENTRATION MAP AUGUST 8, 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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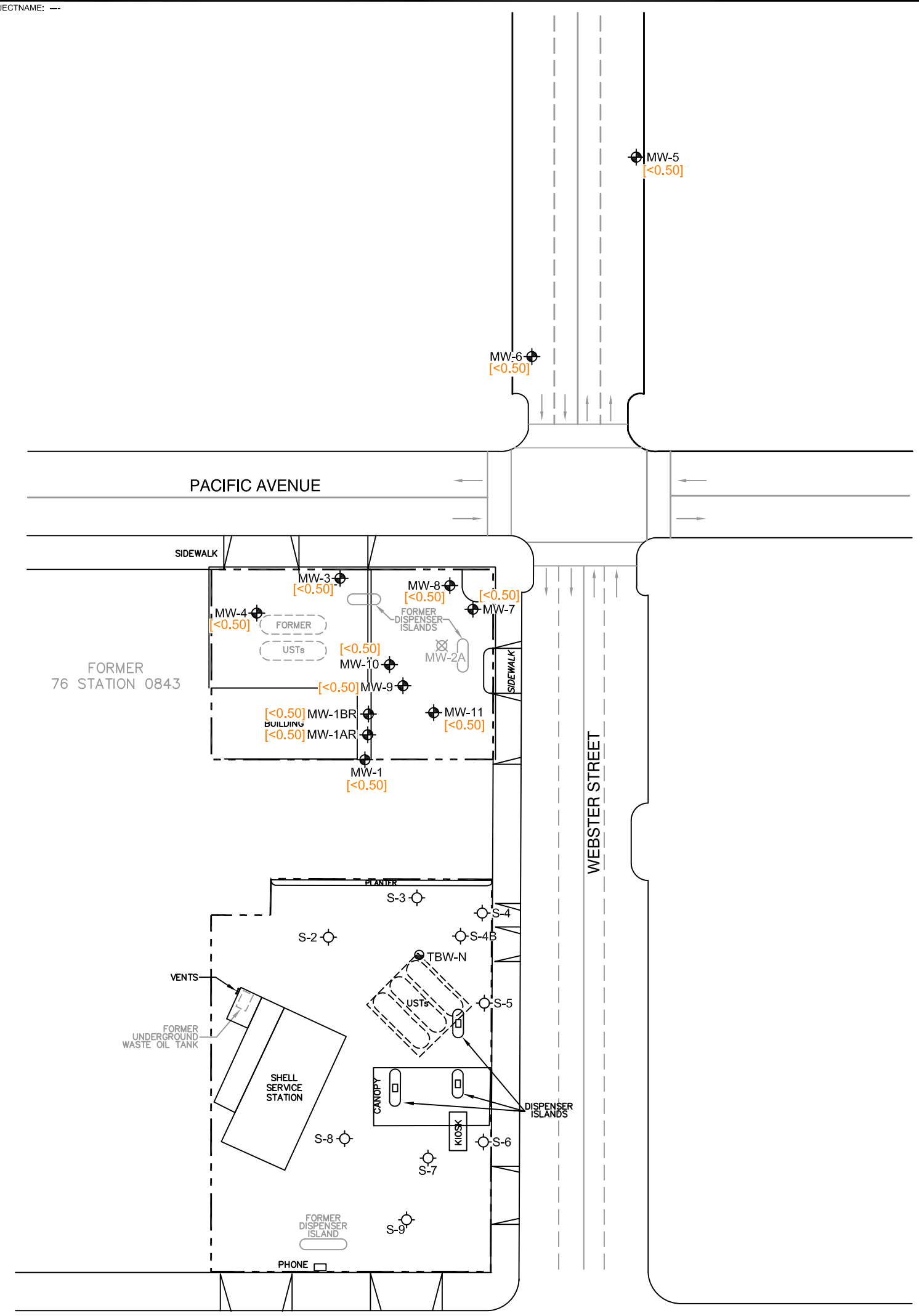

LEGEND

- 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
- [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.
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BENZENE CONCENTRATION MAP AUGUST 8, 2013

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FIGURE
6

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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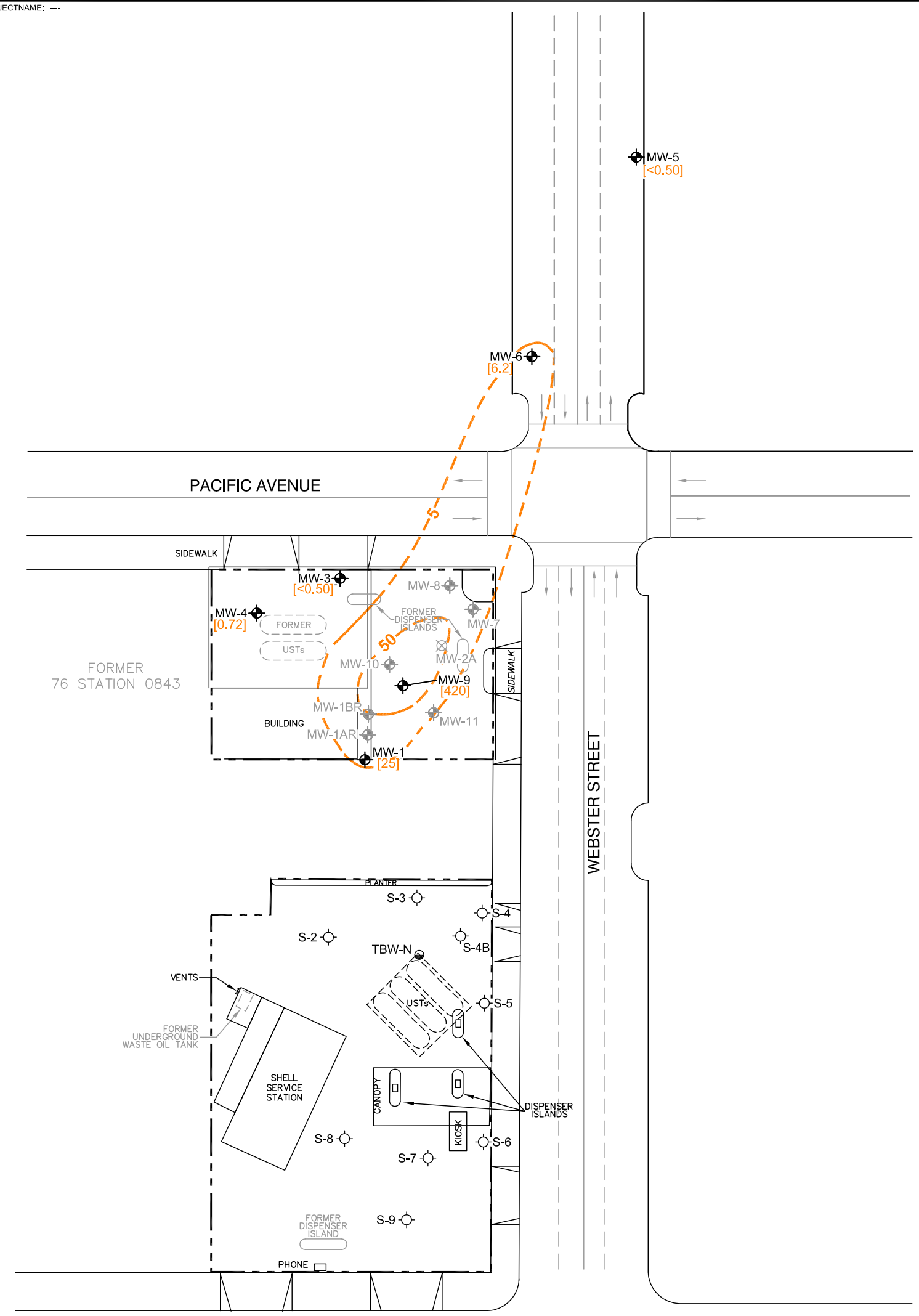

LEGEND

- PROPERTY BOUNDARY
- MW-1 FORMER 76 STATION SHALLOW ZONE MONITORING WELL
- MW-1AR FORMER 76 STATION SUBMERGED ZONE 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.
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ALAMEDA, CALIFORNIA

MTBE SHALLOW ZONE WELL CONCENTRATION MAP AUGUST 8, 2013

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FIGURE
7

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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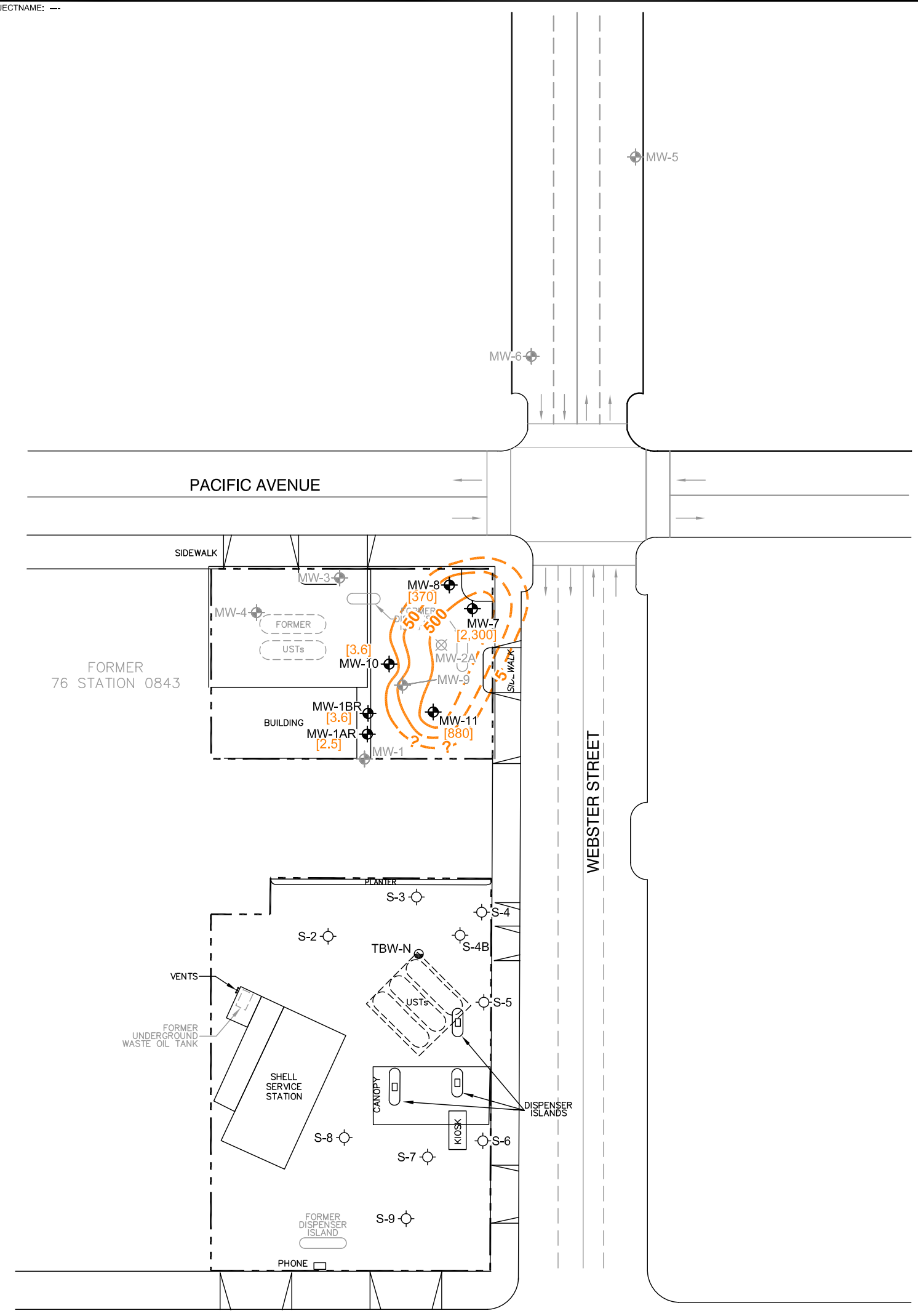

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER 76 STATION SHALLOW ZONE MONITORING WELL
- MW-1AR — FORMER 76 STATION SUBMERGED ZONE 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 SUBMERGED ZONE WELL CONCENTRATION MAP AUGUST 8, 2013

ARCADIS

FIGURE 8

ARCADIS

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	**8/8/2013**	**19.13**	**8.05**	**0.00**	**11.08**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**25**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-1AR	**8/8/2013**	**19.29**	**8.25**	**0.00**	**11.04**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.5**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-1BR	**8/8/2013**	**19.13**	**8.21**	**0.00**	**10.92**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.6**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-3	**8/8/2013**	**18.05**	**7.30**	**0.00**	**10.75**	**<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	**8/8/2013**	**18.14**	**7.22**	**0.00**	**10.92**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**0.72**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-5	**8/8/2013**	**16.45**	**6.70**	**0.00**	**9.75**	**<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	**8/8/2013**	**16.97**	**6.77**	**0.00**	**10.20**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**6.2**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-7	**8/8/2013**	**17.81**	**7.05**	**0.00**	**10.76**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2,300**	**1,600**	**2.7**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-8	**8/8/2013**	**18.13**	**7.40**	**0.00**	**10.73**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**370**	**180**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-9	**8/8/2013**	**18.75**	**7.80**	**0.00**	**10.95**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**420**	**190**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	**A01**
MW-10	**8/8/2013**	**18.84**	**7.93**	**0.00**	**10.91**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.6**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
MW-11	**8/8/2013**	**18.72**	**7.75**	**0.00**	**10.97**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**880**	**680**	**0.91**	**<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-1AR	**8/8/2013**	**373**	**5.6**	**192.2**	**18**	**30**	**<100**	**3.8**	**<2.0**	**<10**	**51**	**<3.0**	**<10**	**110**	**<3.0**	**S05**
MW-1BR	**8/8/2013**	**403**	**5.2**	**197.5**	**31**	**32**	**<100**	**2.7**	**<2.0**	**<10**	**80**	**<3.0**	**<10**	**300**	**5.9**	**S05**
MW-3	**8/8/2013**	**588**	**3.7**	**223.0**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-4	**8/8/2013**	**1,090**	**5.9**	**228.4**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-5	**8/8/2013**	**536**	**5.5**	**232.4**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**<10**	**--**	**--**	**S05**
MW-6	**8/8/2013**	**508**	**5.3**	**226.4**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**<10**	**--**	**--**	**S05**
MW-7	**8/8/2013**	**669**	**5.3**	**39.7**	**11.0**	**29**	**790**	**2.6**	**<2.0**	**<10**	**470**	**<3.0**	**12**	**640**	**<3.0**	**S05**
MW-8	**8/8/2013**	**555**	**5.5**	**78.3**	**12.0**	**38**	**200**	**2.4**	**<2.0**	**<10**	**470**	**<3.0**	**<10**	**580**	**4.8**	**S05**
MW-10	**8/8/2013**	**369**	**8.0**	**193.4**	**15**	**28**	**<100**	**2.7**	**5.0**	**<10**	**6.5**	**<3.0**	**<10**	**30**	**<3.0**	**S05**
MW-11	**8/8/2013**	**705**	**7.6**	**251.2**	**6.1**	**30**	**<100**	**4.7**	**<2.0**	**<10**	**430**	**<3.0**	**<10**	**590**	**<3.0**	**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
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-1	**8/8/2013**	**19.13**	**8.05**	**0.00**	**11.08**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**25**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**	
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	A90
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-1AR	**8/8/2013**	**19.29**	**8.25**	**0.00**	**11.04**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.5**	**<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	
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	A90
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-1BR	**8/8/2013**	**19.13**	**8.21**	**0.00**	**10.92**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.6**	**<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	A90
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-3	**8/8/2013**	**18.05**	**7.30**	**0.00**	**10.75**	**<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	A90
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-4	**8/8/2013**	**18.14**	**7.22**	**0.00**	**10.92**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**0.72**	**<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	

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	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	A90
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	
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-5	**8/8/2013**	**16.45**	**6.70**	**0.00**	**9.75**	**<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	
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	A90
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-6	**8/8/2013**	**16.97**	**6.77**	**0.00**	**10.20**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**6.2**	**<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
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-7	**8/8/2013**	**17.81**	**7.05**	**0.00**	**10.76**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2,300**	**1,600**	**2.7**	**<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
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	A90
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-8	**8/8/2013**	**18.13**	**7.40**	**0.00**	**10.73**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**370**	**180**	**<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	
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	A90
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-9	**8/8/2013**	**18.75**	**7.80**	**0.00**	**10.95**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**420**	**190**	**<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	A90
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	

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-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-10	**8/8/2013**	**18.84**	**7.93**	**0.00**	**10.91**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.6**	**<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
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	A90
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
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
MW-11	**8/8/2013**	**18.72**	**7.75**	**0.00**	**10.97**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**880**	**680**	**0.91**	**<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
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-1	**8/8/2013**	**252**	**4.4**	**182.3**	**6.9**	**13**	**110**	**1.7**	**<2.0**	**<10**	**2.5**	**<3.0**	**65**	**470**	**36**	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-1AR	**8/8/2013**	**373**	**5.6**	**192.2**	**18**	**30**	**<100**	**3.8**	**<2.0**	**<10**	**51**	**<3.0**	**<10**	**110**	**<3.0**	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	
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-1BR	**8/8/2013**	**403**	**5.2**	**197.5**	**31**	**32**	**<100**	**2.7**	**<2.0**	**<10**	**80**	**<3.0**	**<10**	**300**	**5.9**	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-3	**8/8/2013**	**588**	**3.7**	**223.0**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	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-4	**8/8/2013**	**1,090**	**5.9**	**228.4**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	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-5	**8/8/2013**	**536**	**5.5**	**232.4**	--	--	--	--	**<2.0**	**<10**	--	--	**<10**	--	--	S05
MW-6	8/4/2011	484	6.9	316.9	--	--	--	--	<2.0	<10	82	--	--	--	--	
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-6	**8/8/2013**	**508**	**5.3**	**226.4**	--	--	--	--	**<2.0**	**<10**	--	--	**<10**	--	--	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
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-7	**8/8/2013**	**669**	**5.3**	**39.7**	**11.0**	**29**	**790**	**2.6**	**<2.0**	**<10**	**470**	**<3.0**	**12**	**640**	**<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
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-8	**8/8/2013**	**555**	**5.5**	**78.3**	**12.0**	**38**	**200**	**2.4**	**<2.0**	**<10**	**470**	**<3.0**	**<10**	**580**	**4.8**	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	
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-9	**8/8/2013**	**571**	**7.1**	**165.2**	**15**	**40**	**<100**	**3.3**	**<2.0**	**<10**	**79**	**<3.0**	**<10**	**200**	**4.8**	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-10	**8/8/2013**	**369**	**8.0**	**193.4**	**15**	**28**	**<100**	**2.7**	**5.0**	**<10**	**6.5**	**<3.0**	**<10**	**30**	**<3.0**	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
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
MW-11	**8/8/2013**	**705**	**7.6**	**251.2**	**6.1**	**30**	**<100**	**4.7**	**<2.0**	**<10**	**430**	**<3.0**	**<10**	**590**	**<3.0**	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

ARCADIS

Attachment A

Field Data Sheets and General Procedures

GETTLER-RYAN INC.

TRANSMITTAL

August 16, 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 **Third Quarter Event of August 8, 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

10f2

Client/
Facility #: **Chevron #351849 / 0843**

Site Address: **1629 Webster Street**

City: **Alameda, CA**

Job #: **385600**

Event Date: 8/8/17

Sampler: JW

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-6	ok							Y	Y	8" Morrison	N
MW-7	ok										
MW-8	ok			1xD	ok						
MW-5	ok									12" emco	
MW-3	ok	M	ok							8" BL	
MW-4	ok										Y

Comments

WELL CONDITION STATUS SHEET

2 of 2

Client/ Facility #: Chevron #351849 / 0843
Job #: 385600
Site Address: 1629 Webster Street
Event Date: 8.8.13
City: Alameda, CA
Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/(N)
MW-1	OK	→	→	S=3	OK	→	→	Y	Y	LONG YEAR / 8" / 3	
MW-1AR	OK	→	→	B=1	OK	→	→	N	N	MORRISON / 8" / 2	
MW-1BR	OK	→					→	↓	↓	MORRISON / 8" / 2	
MW-9	OK	→					→	↓	↓	MORRISON / 8" / 2	
MW-10	OK	→					→	Y	Y	MORRISON / 12" / 2	
MW-11	OK	→	→	S=1 B=1	OK	→	→	Y	Y	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: 8.8.13 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW- 1 Date Monitored: 8-8-13
Well Diameter 2 in.
Total Depth 20.00 ft.
Depth to Water 8.05 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.

11.95 xVF .17 = 2.03 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.44

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): 1105 Weather Conditions: CLOUDY
Sample Time/Date: 1140 / 8-8-13 Water Color: BROWN Odor: Y / (N)
Approx. Flow Rate: ~ gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 8.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1109	2.0	7.46	517	19.2	PRE: 2.1	PRE: 75
1113	4.0	7.42	522	18.9		
1117	6.0	7.39	527	18.5		
					POST: 1.9	POST: 87

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 Ltr Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1 Ltr Amb.		NP		ORP (ASTM D1948)
	1 x 500ml Poly		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
	1 x 250ml Poly		HCL		FERROUS IRON (SM20 3500 Fe D)
	1 x 500ml Amb.		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1 x 500ml Poly		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1 x 500ml Poly		HNO3		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 8.8.13 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-1AR Date Monitored: 8.8.13
Well Diameter 2 in.
Total Depth 29.75 ft.
Depth to Water 8.25 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.

21.50 xVF .17 = 3.65 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.55

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): 1015 Weather Conditions: CLOUDY
Sample Time/Date: 1040 / 8.8.13 Water Color: CLOUDY Odor: Y / (N)
Approx. Flow Rate: 1.5 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 9.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1017	3.5	7.41	587	19.0	PRE: 2.3	PRE: 105
1019	7.0	7.39	592	18.7		
1022	11.0	7.34	598	18.4		
					POST: 2.0	POST: 94

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)
	1x 1Ltr. Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2x 1Ltr. Amb.		NP		ORP (ASTM D1948)
	1x 500ml Poly		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1x 250ml Poly		HCL		FERROUS IRON (SM20 3500 Fe D)
	1x 500ml Amb.		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1x 500ml Poly		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1x 500ml Poly		HNO3		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: 8.8.13 (inclusive)
City: Alameda, CA Sampler: ET

Well ID MW-1BR Date Monitored: 8-8-13
Well Diameter 2 in.
Total Depth 34.48 ft.
Depth to Water 8.21 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.

26.27 xVF .17 = 4.46 x3 case volume = Estimated Purge Volume: 13.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.46

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: CLOUDY
Sample Time/Date: 0945 / 8.8.13 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 1.5 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.24

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0923	4.5	7.50	531	18.8	PRE: 2.5	PRE: 68
0926	9.0	7.46	537	18.5		
0929	13.0	7.43	542	18.2		
					POST: 2.3	POST: 78

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 x 1 Ltr. Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1 Ltr. Amb.		NP		ORP (ASTM D1948)
	1 x 500 mL Poly		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
	1 x 250 mL Poly		HCL		FERROUS IRON (SM20 3500 Fe D)
	1 x 500 mL Amb.		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1 x 500 mL Poly		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1 x 500 mL Poly		HNO3		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: 8/8/15 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-3 Date Monitored: 8/8/15
Well Diameter 2 in.
Total Depth 19.83 ft.
Depth to Water 7.30 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.

12.53 xVF .17 = 2.13 x3 case volume = Estimated Purge Volume: 6.39 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.80

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

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

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

Start Time (purge): 0855 Weather Conditions: Cloudy
Sample Time/Date: 0935 / 8/8/15 Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 9.29

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0900	2	7.38	581	18.2	PRE: 1.3	PRE: 11
0905	4	7.26	595	18.0		
0910	6	7.11	604	17.9		
					POST: 1.0	POST: 5

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)
	(1) 1L P.G.				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	(2) 1L AMBER				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: 8/8/13 (inclusive)
City: Alameda, CA Sampler: SH

Well ID MW-4 Date Monitored: 8/8/13
Well Diameter 2 in.
Total Depth 16.57 ft.
Depth to Water 7.22 ft.

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

☐ Check if water column is less then 0.50 ft.

9.35 xVF .17 = 1.58 x3 case volume = Estimated Purge Volume: 4.76 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.09

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0755 Weather Conditions: Cloudy
Sample Time/Date: 0835 / 8/8/13 Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 8.75

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0800	1.5	7.49	975	18.6	PRE: 1.9	PRE: 35
0805	3.0	7.32	962	18.4		
0810	5.0	7.20	954	18.3		
					POST: 1.7	POST: 22

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)
	1 x 1L P-L				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1L Amb				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: 8/8/13 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-5 Date Monitored: 8/8/13
Well Diameter 2 in.
Total Depth 20.28 ft.
Depth to Water 6.70 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.

13.58 xVF .17 = 2.30 x3 case volume = Estimated Purge Volume: 6.92 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.41

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

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

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

Start Time (purge): 0600 Weather Conditions: Cloudy
Sample Time/Date: 0635 / 8/8/13 Water Color: cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: cloudy
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 8.27

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0606	2	7.65	469	18.4	PRE: 1.1	PRE: 125
0612	4	7.59	492	18.2		
0618	7	7.50	532	18.0		
					POST: 1.4	POST: 94

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) 1L Poly				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
✓	(2) 1L Amb				ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
✓	(1) 500 Poly NP				HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
✓	(1) 500 Poly HNO3				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: 8/8/13 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW- 6 Date Monitored: 8/8/13
Well Diameter 2 in.
Total Depth 20.15 ft.
Depth to Water 6.77 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.

13.38 xVF .17 = 2.27 x3 case volume = Estimated Purge Volume: 6.82 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.44

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0650 Weather Conditions: Cloudy
Sample Time/Date: 0730 / 8/8/13 Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: — gpm. Sediment Description: L, HC
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 8.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0656	2	7.61	539	18.6	PRE: 1.4	PRE: 182
0701	4	7.67	555	18.3		
0708	7	7.78	571	18.2		
					POST: 1.1	POST: 139

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) 1L Poly				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
✓	(2) 1L Amb				ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
✓	(1) 500 Poly UNP				HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
✓	(1) 500 Poly HNO3				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: 8/8/17 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-7 Date Monitored: 8/8/17
Well Diameter 2 in.
Total Depth 29.11 ft.
Depth to Water 7.05 ft. ☐ Check if water column is less then 0.50 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

22.06 xVF .17 = 3.75 x3 case volume = Estimated Purge Volume: 11.25 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.46

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

Sampling Equipment:
Disposable Bailer X
Pressure Bailer X
Metal Filters X
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): 1000 Weather Conditions: Cloudy
Sample Time/Date: 1040 / 8/8/17 Water Color: Clear Odor: Y / N
Approx. Flow Rate: 1 gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 9.75

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1004	4	7.59	681	18.7	PRE: 1.5	PRE: 131
1008	8	7.39	711	18.4		
1011	11	7.24	745	18.2		
					POST: 1.2	POST: 120

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 Poly	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O) ✓
			2	x 1L Amber	ORP (ASTM D1948) ✓
			1	HNO3 Poly	TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8) ✓
			250	HCL Poly	FERROUS IRON (SM20 3500 Fe D) ✓
			H2SO4	500 mL Amber	TOC (415.1) ✓
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
			1x 500ml	Poly NP	NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM ✓
			1x 500ml	Poly HNO3	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: 8/8/13 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-8 Date Monitored: 8/8/13
Well Diameter 2 in.
Total Depth 29.55 ft.
Depth to Water 7.40 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.

22.15 xVF .17 = 3.76 x3 case volume = Estimated Purge Volume: 11.29 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.83

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

Sampling Equipment:
Disposable Bailer X
Pressure Bailer X
Metal Filters X
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): 1100 Weather Conditions: Cloudy
Sample Time/Date: 1140 / 8/8/13 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 9.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1104	4	7.57	510	18.5	PRE: 1.6	PRE: 139
1108	8	7.52	539	18.4		
1111	11	7.45	581	18.1		
					POST: 1.2	POST: 101

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) 1L	x Poly	SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
			(2) 1L	AmBer	ORP (ASTM D1948)
			(1) 500 mL	HNO3 Poly	TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
			(1) 250	HCL Poly	FERROUS IRON (SM20 3500 Fe D)
			(1) 500 mL	H2SO4 AmBer	TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
			(1) 500 mL	Poly N/B	NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
			(1) 500 mL	Poly HNO3	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: 8.8.13 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-9 Date Monitored: 8.8.13
Well Diameter 2 in.
Total Depth 24.45 ft.
Depth to Water 7.80 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.

16.65 xVF .17 = 2.83 x3 case volume = Estimated Purge Volume: 8.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.13

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: Cloudy
Sample Time/Date: 0852 / 8.8.13 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: / gpm. Sediment Description: None
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 7.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0830	2.5	7.49	562	19.6	PRE: 2.5	PRE: 81
0835	5.0	7.45	569	19.3		
0841	8.0	7.42	576	19.0		
					POST: 2.3	POST: 92

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)
	1x1Lt. Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2x1Lt Amb.		NP		ORP (ASTM D1948)
	1x 500mL Poly		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
	1x250mL Poly		HCL		FERROUS IRON (SM20 3500 Fe D)
	1x 500mL Amb.		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1x 500mL Poly		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1x 500mL Poly		HNO3		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: 8-8-13 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-10 Date Monitored: 8-8-13
Well Diameter 2 in.
Total Depth 29.06 ft.
Depth to Water 7.93 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.

21.13 xVF .17 = 3.59 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.15

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: 0805 / 8.8.13 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: ≈1.5 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 8.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (S))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0747	3.5	7.53	575	19.5	PRE: 1.9	PRE: 125
0749	7.0	7.50	579	19.2		
0752	11.0	7.47	584	18.9		
					POST: 1.7	POST: 115

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)
	1x 1Lit. Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2x 40ml Amb.		NP		ORP (ASTM D1948)
	1x 500 ml. Poly		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
	1x 250 ml. Poly		HCL		FERROUS IRON (SM20 3500 Fe D)
	1x 500 ml Amb.		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1x 500 ml. Poly		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1x 500 ml. Poly		HNO3		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS: ____

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843 Job Number: 385600
Site Address: 1629 Webster Street Event Date: 8.8.13 (inclusive)
City: Alameda, CA Sampler: ET

Well ID MW-11 Date Monitored: 8.8.13
Well Diameter 2 in.
Total Depth 27.52 ft.
Depth to Water 7.75 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.

19.77 xVF .17 = 3.36 x3 case volume = Estimated Purge Volume: 10.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.70

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): 0700 Weather Conditions: CLOUDY
Sample Time/Date: 0725 / 8.8.13 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: ~ 1.5 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 7.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)
0703	3.5	7.69	603	19.2	PRE: 2.3	PRE: 119
0706	7.0	7.65	597	18.9		
0710	10.0	7.62	592	18.6		
					POST: 2.1	POST: 108

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)
	1x 1Lm. POLY		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2x 1Lm. AMB.		NP		ORP (ASTM D1948)
	1x 500mL Poly		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/ TOTAL VANADIUM(200.8)
	1x 250mL POLY		HCL		FERROUS IRON (SM20 3500 Fe D)
	1x 500mL AMB.		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/ DISSOLVED CHROMIUM (6010)
	[redacted]		[redacted]		TOTAL CHROMIUM(6010)
	1x 500mL Poly		NO		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1x 500mL Poly		HNO3		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS: MORRISON 8" (1SF, 1BF)

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

3-COCs

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

Site Global ID: T0600102263

Site Address: 1629 WEBSTER ST. ALAMEDA, CA

~~Union~~ Oil PM: TIMOTHY L. BISHOP

~~Union~~ Oil PM Phone No.: (925) 790-6463

Union Oil Consultant: ARCADIS

Consultant Contact: KATHERINE BRANDT

Consultant Phone No.: 510-596-9675

Sampling Company: GETTLER-RYAN

Sampled By (PRINT): FRANCE & JIMH.

Sampler Signature:

Charge Code: NWRTB-0 351849 **-0- LAB**

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

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

Special Instructions

SAMPLE ID						ANALYSES REQUIRED												
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	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	TBA/TAME/ETBE/DIPE/EDB/EDC (8260)	SM20 4500 SPECIFIC CONDUCTANCE (120.1)/D.O.	ORP (ASTM D1498)	TOTAL MANGANESE (200.8)	TOTAL CHROMIUM (6010)	TOTAL VANADIUM (200.8) (SM20 3500 Fe D) FERROUS IRON	Notes / Comments
QA	W-S-A		13.8.8		2		X	X									
MW-1	W-S-A			1140	11		X	X	X		X	X	X	X	X	X	
MW-1A IR	W-S-A			1040	11		X	X	X		X	X	X	X	X	X	
MW-1B R	W-S-A			0945	11		X	X	X		X	X	X	X	X	X	
MW-3	W-S-A			0935	9		X	X	X		X	X	X				
MW-4	W-S-A			0835	9		X	X	X		X	X	X				
MW-5	W-S-A			0635	9		X	X	X		X	X	X				
MW-6	W-S-A			0730	9		X	X	X		X	X	X				
MW-7	W-S-A			1040	11		X	X	X		X	X	X	X	X	X	
MW-8	W-S-A			1140	11		X	X	X		X	X	X	X	X	X	
MW-9	W-S-A			0852	11		X	X	X		X	X	X	X	X	X	
MW-10	W-S-A		"	0805	11		X	X	X		X	X	X	X	X	X	

Relinquished By	Company	Date / Time:
	G-R	8.8.13

Received By	Company	Date / Time:
Mary Bogan	BC Lab	8.8.13 1535

Relinquished By	Company	Date / Time :

Received By	Company	Date / Time :

Relinquished By	Company	Date / Time:

Received By	Company	Date / Time:

CHAIN OF CUSTODY FORM

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

COC 2 of 3

Union Oil Site ID: 0843

Site Global ID: T0600102263

Site Address: 1629 WEBSTER ST. ALAMEDA, CA

Union Oil PM: TIMOTHY L. BISHOP

Union Oil PM Phone No.: (925) 790-6463

Charge Code: NWRTB- 0 3 5 1 8 4 9 -0- LAB

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

Union Oil Consultant: ALLCADIS

Consultant Contact: KATHERINE BRANDT

Consultant Phone No.: (510) 596-9675

Sampling Company:

Sampled By (PRINT): FRANK T. & JIM H.

Sampler Signature:

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

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TOC (415.1)	NITRATE/SULFATE (300.0)	HEXAVALENT CHROMIUM (7196)	DISSOLVED MANGANESE (200.8)/ DISSOLVED VANADIUM (200.8)	DISSOLVED CHROMIUM (6010)	HEXAVALENT CHROMIUM (7196)	DISSOLVED CHROMIUM (6010)	TOTAL CHROMIUM (6010)	Notes / Comments
MW-1	W-S-A		130808	1140	3						X	X	X	X					
MW-1AR	W-S-A			1040	3						X	X	X	X					
MW-1BR	W-S-A			0945	3						X	X	X	X					
MW-5	W-S-A			0635	2											X	X		
MW-6	W-S-A			0730	2											X	X		
MW-7	W-S-A			1040	3						X	X	X	X					
MW-8	W-S-A			1140	3						X	X	X	X					
MW-9	W-S-A			0852	3						X	X	X	X					
MW-10	W-S-A			0805	3						X	X	X	X					
MW-11	W-S-A			0725	3						X	X	X	X					
	W-S-A																		
	W-S-A																		

ANALYSES REQUIRED

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

Special Instructions

Relinquished By	Company	Date / Time:
[signature]	G-R	8.8.13

Received By	Company	Date / Time:
Jesus Bogan	BCLab	8-8-13 1535

Relinquished By	Company	Date / Time :

Received By	Company	Date / Time :

Relinquished By	Company	Date / Time:

Received By	Company	Date / Time:

CHAIN OF CUSTODY FORM

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

COC 3 of 3

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~~ CHEVRON PM: TIMOTHY L. BISHOP	Sampled By (PRINT): FRANK T. & JIM H.
~~Union Oil~~ CHEVRON PM Phone No.: (925) 790-6463	Sampler Signature: [signature]
Charge Code: NWRTB- 0 351849 -0- LAB	**BC Laboratories, Inc.**
	Project Manager: Molly Meyers
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	4100 Atlas Court, Bakersfield, CA 93308
	Phone No. 661-327-4911

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

Special Instructions

ANALYSES REQUIRED

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	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	TBA, TAME, ETBE, DIPE, EDB, EDC (8260)	SPECIFIC CONDUCTANCE (120.1), D.O (SM 20 4500-O)	ORP (ASTM D 1498)	TOTAL MANGANESE (200.8), TOTAL CHROMIUM (6010)	TOTAL VANADIUM (200.8)	FERROUS IRON (SM 20 3500 Fe D)	Notes / Comments
MW-11	Ⓦ-S-A		130808	0725	11		X	X	X		X	X	X	X	X	X	
	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																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	G-R	8.8.13						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
[signature]	BC LAB	8-8-13 1535						

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: 08/26/2013

Kathy Brandt

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Project:	0843
BC Work Order:	1316834
Invoice ID:	B153618

Enclosed are the results of analyses for samples received by the laboratory on 8/8/2013. 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

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

CHAIN OF CUSTODY FORM

13-16834

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~~ CHEVRON Oil PM: TIMOTHY L. BISHOP	Sampled By (PRINT): FRANCT. & JIMH.
~~Union~~ CHEVRON Oil PM Phone No.: (925) 790-6463	Sampler Signature: [signature]
Charge Code: NWRTB- 0351849 -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.

ANALYSES REQUIRED

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

Special Instructions

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by [redacted] (8015)	BTEX/MTBE/[redacted] by EPA 8260[redacted]	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TBA/TAME/ETBE/DIPE/EDB/EDC (8260)	SM20 4500-O / D.O.; SPECIFIC CONDUCTANCE (120.1)	ORP (ASTM D1498)	TOTAL MANGANESE (200.8); TOTAL CHROMIUM (6010)	TOTAL VANADIUM (200.8)	(SM20 3500 Fe D) FERROUS IRON	Notes / Comments
QA	(W)-S-A	-1	13.8.8		2		X	X									
MW-1	W-S-A	-2		1140	11		X	X	X		X	X	X	X	X	X	
MW-1AR	W-S-A	-3		1040	11		X	X	X		X	X	X	X	X	X	
MW-1BR	W-S-A	-4		0945	11		X	X	X		X	X	X	X	X	X	
MW-3	W-S-A	-5		0935	9		X	X	X		X	X	X				
MW-4	W-S-A	-6		0835	9		X	X	X		X	X	X				
MW-5	W-S-A	-7		0635	9		X	X	X		X	X	X				
MW-6	W-S-A	-8		0730	9		X	X	X		X	X	X				
MW-7	W-S-A	-9		1040	11		X	X	X		X	X	X	X	X	X	
MW-8	W-S-A	-10		1140	11		X	X	X		X	X	X	X	X	X	
MW-9	W-S-A	-11		0852	11		X	X	X		X	X	X	X	X	X	
MW-10	W-S-A	-12	↓	0805	11		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]	G-R	8.8.13	Gary Bogen	BCLAB	8-8-13 1830	[signature]	BCLAB	8-8-13 23:05

Received By	Company	Date / Time:	Received By	Company	Date / Time:	Received By	Company	Date / Time:
Gary Bogen	BcLab	8-8-13 1535	[signature]	BCLAB	8-8-13	SAS	BcLab	8.8.13 2305

13-16834

CHAIN OF CUSTODY FORM

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

COC 2 of 3

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: TIMOTHY L. BISHOP	Sampling Company:
~~Union~~ Oil PM Phone No.: (925) 790-6463	Sampled By (PRINT): Frank T. & JIM H.
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

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

Special Instructions

SAMPLE ID						ANALYSES REQUIRED											
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TOC (415.1)	NITRATE/SULFATE (300.0)	HEXAVALENT CHROMIUM (7196)	DISSOLVED MANGANESE (6020)	DISSOLVED VANADIUM (6020)	DISSOLVED CHROMIUM (6010)	HEXAVALENT CHROMIUM (7196)	DISSOLVED MANGANESE (6010)	TOTAL CHROMIUM (6010)	Notes / Comments
-2 MW-1	W-S-A		130808	1140	3						X	X	X	X					
-3 MW-1AR	W-S-A			1040	3						X	X	X	X					
-4 MW-1BR	W-S-A			0945	3						X	X	X	X					
-7 MW-5	W-S-A			0635	2										X		X	X	
-8 MW-6	W-S-A			0730	2										X		X	X	
-9 MW-7	W-S-A			1040	3						X	X	X	X					
-10 MW-8	W-S-A			1140	3						X	X	X	X					
-11 MW-9	W-S-A			0852	3						X	X	X	X					
-12 MW-10	W-S-A			0805	3						X	X	X	X					
-13 MW-11	W-S-A			0725	3						X	X	X	X					
	W-S-A																		
	W-S-A																		

Relinquished By	Company	Date / Time:
[signature]	G-R	8.8.13
Received By	Company	Date / Time:
Gary Bogan	BCLab	8-8-13 1535

Relinquished By	Company	Date / Time :
Gary Bogan	BCLab	8-8-13 1830
Received By	Company	Date / Time :
[signature]	BCLAB	8-8-13 18:30

Relinquished By	Company	Date / Time:
[signature]	BCLAB	8-8-13 23:05
Received By	Company	Date / Time:
SAS	BCL	2305

13-16834

CHAIN OF CUSTODY FORM

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

COC 3 of 3

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~~ CHEVRON Oil PM: TIMOTHY L. BISHOP	Sampled By (PRINT): FRANK T. & JIM H.
~~Union~~ CHEVRON Oil PM Phone No.: (925) 790-6463	Sampler Signature: [signature]
Charge Code: NWRTB- 0351849 -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.

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	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	TBA/TAME/ETBE/DIPE/EDB/EDC (8260)	SPECIFIC CONDUCTANCE (120.1)/D.O (SM20 4500-O)	ORP (ASTM D 1498)	TOTAL MANGANESE (200.8)	TOTAL CHROMIUM (6010)	TOTAL VANADIUM (200.8)	(SM20 3500 FeD) FERROUS IRON	Notes / Comments
-13 MW-11	(W)-S-A		130808	0725	11		X	X	X		X	X	X	X	X	X	X	
	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																	
	W-S-A																	
	W-S-A																	

CHK BY SAS | DISTRIBUTION MAIN SUB PMF TOC | SUB-OUT ☐

SHORT HOLDING TIME: (Cr+6) NO$_2$ (NO$_3$) OP SS DO Cl$_2$ BOD MBAS COT

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
[signature]	G-R	8-8-13	Gary Bogan	BcLab	8-8-13 1830	[signature]	BCLAB	8-8-13 23:05
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
Gary Bogan	BcLab	8-8-13 1535	[signature]	BCLAB	8-8-13 18:30	SAS	BCL	2305

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1316834 Page 4 of 9

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page ___ Of ___

Submission #: 13-16834

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	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: 0.98 Container: Ot pe Thermometer ID: 207

Temperature: (A) 4.1 °C / (C) 4.2 °C

Date/Time 8/8/13

Analyst Init KIQ 2305

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	115	125	713	8	9	10
T GENERAL MINERAL/ GENERAL		B	B	B						
T PE UNPRESERVED		C	C	C						
T INORGANIC CHEMICAL METALS										
T INORGANIC CHEMICAL METALS		DE	DE	DE						
T CYANIDE										
T NITROGEN FORMS										
T TOTAL SULFIDE										
z. NITRATE / NITRITE										
T TOTAL ORGANIC CARBON										
T TOX										
T CHEMICAL OXYGEN DEMAND										
A PHENOLICS										
ml VOA VIAL TRAVEL BLANK	A (2)									
ml VOA VIAL	~~A (2)~~ KIQ	A (6)	A (6)	A (6)	A (6)	A (6)	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										
OZ. JAR										
OZ. JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
RROUS IRON										
CORE										
IART KIT										
mma Canister										

nments:_____

nple Numbering Completed By: KIQ Date/Time: 8/8/13 @ 2355

= Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1316834 Page 5 of 9

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page ___ Of ___

Submission #: 13-16834

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	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: Amber Thermometer ID: 207

Temperature: (A) 3.7 °C / (C) 3.8 °C

Date/Time 8/8/13

Analyst Init KIQ 2305

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	x2	x3	x4	4	5	6	7	8	9	10
T GENERAL MINERAL/ GENERAL										
T PE UNPRESERVED										
T INORGANIC CHEMICAL METALS										
T INORGANIC CHEMICAL METALS										
T CYANIDE										
T NITROGEN FORMS										
T TOTAL SULFIDE										
oz. NITRATE / NITRITE										
T TOTAL ORGANIC CARBON	F	F	F							
T TOX										
T CHEMICAL OXYGEN DEMAND										
A PHENOLICS										
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
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	HI	HI	HI							
OZ. JAR										
OZ. JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
ERROUS IRON	G	G	G							
NCORE										
MART KIT										
umma Canister										

mments:_____

mple Numbering Completed By: KIQ Date/Time: 8/8/13 @ 2355

= Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15]

Chain of Custody and Cooler Receipt Form for 1316834 Page 6 of 9

C LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page ___ Of ___

ubmission #: 13-16834

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
ederal Express ☐ UPS ☐ Hand Delivery C Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Amber Thermometer ID: 207

Temperature: (A) 26 °C / (C) 27 °C

Date/Time 8/8/13

Analyst Init KIQ 2305

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	15	16	17	18	5	6	7	8	9	10
GENERAL MINERAL/ GENERAL										
PE UNPRESERVED										
INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS										
CYANIDE										
NITROGEN FORMS										
TOTAL SULFIDE										
NITRATE / NITRITE										
TOTAL ORGANIC CARBON										
TOX										
CHEMICAL OXYGEN DEMAND										
PHENOLICS										
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL	A (6)	A (6)	A (6)	A (6)	( )	( )	( )	( )	( )	( )
EPA 413.1, 413.2, 418.1										
ODOR										
BIOLOGICAL										
CTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
EPA 548										
EPA 549										
EPA 632										
EPA 8015M										
AMBER	CD	CD	Ef	Ef						
Z. JAR										
OZ. JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
RROUS IRON										
CORE										
ART KIT										
mma Canister										

ments:_____

ple Numbering Completed By: KIQ Date/Time: 8/8/13 @ 2355

Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1316834 Page 7 of 9

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page ___ Of ___

Submission #: 13-16834

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	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: 0.98 Container: Ppe Thermometer ID: 207 Date/Time 8/8/13

Temperature: (A) 1-1 °C / (C) 1-2 °C Analyst Init KIQ 2305

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	5	20	7	8	9	6	7	8	9	10
)T GENERAL MINERAL/ GENERAL	B	B	B	B	B					
'T PE UNPRESERVED			C	C	C					
)T INORGANIC CHEMICAL METALS										
'T INORGANIC CHEMICAL METALS			D	D	DE					
'T CYANIDE										
'T NITROGEN FORMS										
'T TOTAL SULFIDE										
oz. NITRATE / NITRITE										
'T TOTAL ORGANIC CARBON										
'T TOX										
'T CHEMICAL OXYGEN DEMAND										
tA PHENOLICS										
0ml VOA VIAL TRAVEL BLANK										
0ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
)T EPA 413.1, 413.2, 418.1										
'T ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
0 ml VOA VIAL- 504										
)T EPA 508/608/8080										
)T EPA 515.1/8150										
)T EPA 525										
)T EPA 525 TRAVEL BLANK										
00ml EPA 547										
00ml EPA 531.1										
)T EPA 548										
)T EPA 549										
)T EPA 632										
)T EPA 8015M										
)T AMBER										
OZ. JAR										
2 OZ. JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
ERROUS IRON										
NCORE										
MART KIT										
umma Canister										

)mments:_____

mple Numbering Completed By: KIQ Date/Time: 8/8/13 @ 2355

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Chain of Custody and Cooler Receipt Form for 1316834 Page 8 of 9

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page ___ Of ___

Submission #: 13-16834

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	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: 0.97 Container: VOA Thermometer ID: 207

Temperature: (A) 2.5 °C / (C) 2.0 °C

Date/Time 8/8/13

Analyst Init KIQ 2305

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	9	10	11	12	13	6	7	8	9	10
T GENERAL MINERAL/ GENERAL										
T PE UNPRESERVED										
T INORGANIC CHEMICAL METALS										
T INORGANIC CHEMICAL METALS										
T CYANIDE										
T NITROGEN FORMS										
T TOTAL SULFIDE										
oz. NITRATE / NITRITE										
T TOTAL ORGANIC CARBON										
T TOX										
T CHEMICAL OXYGEN DEMAND										
IA PHENOLICS										
)ml VOA VIAL TRAVEL BLANK										
)ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
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	HI	HI	HI	HI	HI					
OZ. JAR										
OZ. JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
ERROUS IRON										
NCORE										
MART KIT										
umma Canister										

Comments:_____

Sample Numbering Completed By: KIQ Date/Time: 8/8/13 @ 2355

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1316834 Page 9 of 9

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page __ Of __

Submission #: 13-160834

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	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: 0.98 Container: UOG Thermometer ID: 207

Temperature: (A) 4.5 °C / (C) 4.0 °C

Date/Time 8/8/13

Analyst Init KIQ 2305

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	9	10	11	12	13	6	7	8	9	10
T GENERAL MINERAL/ GENERAL		B	B	B	B					
T PE UNPRESERVED		C	C	C	C					
T INORGANIC CHEMICAL METALS										
T INORGANIC CHEMICAL METALS		DE	DE	DE	DE					
T CYANIDE										
T NITROGEN FORMS										
T TOTAL SULFIDE										
z. NITRATE / NITRITE	KIQ									
T TOTAL ORGANIC CARBON	F	F	F	F	F					
T TOX										
T CHEMICAL OXYGEN DEMAND										
A PHENOLICS										
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL	A (6)	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										
OZ. JAR										
OZ. JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG	KIQ									
RROUS IRON	F G	G	G	G	G					
NCORE										
MART KIT										
mma Canister										

Comments:

Sample Numbering Completed By: KIQ Date/Time: 8/8/13 @ 2355

A = Actual / C = Corrected

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1316834-01	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 00:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	QA-W-130808	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): QA
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1316834-02	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 11:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1-W-130808	**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-1
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1316834-03	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 10:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1AR-W-130808	**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-1AR
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1316834-04	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 09:45
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1BR-W-130808	**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-1BR
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1316834-05	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 09:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3-W-130808	**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:
1316834-06	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 08:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-4-W-130808	**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:

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1316834-07	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 06:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-5-W-130808	**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:
1316834-08	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 07:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6-W-130808	**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:
1316834-09	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 10:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7-W-130808	**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-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1316834-10	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 11:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8-W-130808	**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-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1316834-11	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 08:52
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9-W-130808	**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-9
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1316834-12	**COC Number:**	---	**Receive Date:** 08/08/2013 23:05
	Project Number:	0843	**Sampling Date:** 08/08/2013 08:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10-W-130808	**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-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1316834-13	**COC Number:**	---	**Receive Date:**	08/08/2013 23:05
	Project Number:	0843	**Sampling Date:**	08/08/2013 07:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-W-130808	**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-11
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-01 | **Client Sample Name:** 0843, QA-W-130808, 8/8/2013 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)	98.1	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	90.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 19:42	EAR	MS-V12	1	BWH0775

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-01 | **Client Sample Name:** 0843, QA-W-130808, 8/8/2013 12:00:00AM

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)	114	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 12:38	jjh	GC-V9	1	BWH1240

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-02 | **Client Sample Name:** 0843, MW-1-W-130808, 8/8/2013 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	**25**	**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)	96.7	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 21:27	EAR	MS-V12	1	BWH0775

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-02 | **Client Sample Name:** 0843, MW-1-W-130808, 8/8/2013 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)	105	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 12:58	jjh	GC-V9	1	BWH1240

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-02 | **Client Sample Name:** 0843, MW-1-W-130808, 8/8/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	6.9	mg/L	0.44	EPA-300.0	ND		1
Sulfate	13	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	252	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	110	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	1.7	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	4.4	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	182.3	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 20:56	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 20:20	RML	MET-1	1	BWH0998
3	SM-3500-FeD	08/12/13	08/12/13 09:42	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/20/13 12:00	CDR	TOC2	1	BWH1476
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
6	ASTM-D1498	08/12/13	08/12/13 16:16	RML	MET-1	1	BWH0857

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-02 | **Client Sample Name:** 0843, MW-1-W-130808, 8/8/2013 11:40:00AM

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	**2.5**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	**65**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**470**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**36**	**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	08/09/13	08/09/13 08:24	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 08:43	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 19:56	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 10:54	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/13/13	08/16/13 20:35	SRM	PE-EL2	1	BWH0904
6	EPA-200.8	08/19/13	08/19/13 19:35	SRM	PE-EL2	1	BWH1487

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-03 | **Client Sample Name:** 0843, MW-1AR-W-130808, 8/8/2013 10:40:00AM

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	**2.5**	**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)	98.3	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 21:45	EAR	MS-V12	1	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-03 | **Client Sample Name:** 0843, MW-1AR-W-130808, 8/8/2013 10:40:00AM

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)	106	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 13:18	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-03 | **Client Sample Name:** 0843, MW-1AR-W-130808, 8/8/2013 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**18**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**30**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**373**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**3.8**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**5.6**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**192.2**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 21:13	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 20:25	RML	MET-1	1	BWH0998
3	SM-3500-FeD	08/12/13	08/12/13 09:42	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/19/13 20:13	CDR	TOC2	1	BWH1476
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
6	ASTM-D1498	08/12/13	08/12/13 16:20	RML	MET-1	1	BWH0857

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-03 | **Client Sample Name:** 0843, MW-1AR-W-130808, 8/8/2013 10:40:00AM

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	**51**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	**110**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
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	08/09/13	08/09/13 08:24	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 08:45	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 19:59	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 10:56	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/13/13	08/16/13 20:38	SRM	PE-EL2	1	BWH0904
6	EPA-200.8	08/19/13	08/19/13 19:38	SRM	PE-EL2	1	BWH1487

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-04 | **Client Sample Name:** 0843, MW-1BR-W-130808, 8/8/2013 9:45:00AM

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)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 22:03	EAR	MS-V12	1	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-04 | **Client Sample Name:** 0843, MW-1BR-W-130808, 8/8/2013 9:45:00AM

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)	118	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 13:38	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-04 | **Client Sample Name:** 0843, MW-1BR-W-130808, 8/8/2013 9:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**31**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**32**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**403**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**2.7**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**5.2**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**197.5**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 21:30	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 20:31	RML	MET-1	1	BWH0998
3	SM-3500-FeD	08/12/13	08/12/13 09:42	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/19/13 20:55	CDR	TOC2	1	BWH1477
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
6	ASTM-D1498	08/12/13	08/12/13 16:25	RML	MET-1	1	BWH0857

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-04 | **Client Sample Name:** 0843, MW-1BR-W-130808, 8/8/2013 9:45:00AM

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	**80**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	**300**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**5.9**	**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	08/09/13	08/09/13 08:24	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 08:50	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 20:02	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 10:58	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/13/13	08/16/13 20:42	SRM	PE-EL2	1	BWH0904
6	EPA-200.8	08/19/13	08/19/13 19:41	SRM	PE-EL2	1	BWH1487

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-05 | **Client Sample Name:** 0843, MW-3-W-130808, 8/8/2013 9:35:00AM

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)	100	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.3	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 22:20	EAR	MS-V12	1	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-05 | **Client Sample Name:** 0843, MW-3-W-130808, 8/8/2013 9:35:00AM

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)	108	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 15:39	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-05 | **Client Sample Name:** 0843, MW-3-W-130808, 8/8/2013 9:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**588**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**3.7**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**223.0**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	08/13/13	08/13/13 20:36	RML	MET-1	1	BWH0998
2	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
3	ASTM-D1498	08/12/13	08/12/13 16:30	RML	MET-1	1	BWH0857

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-06 | **Client Sample Name:** 0843, MW-4-W-130808, 8/8/2013 8:35:00AM

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	**0.72**	**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)	96.0	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 22:38	EAR	MS-V12	1	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-06 | **Client Sample Name:** 0843, MW-4-W-130808, 8/8/2013 8:35:00AM

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)	106	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 15:59	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-06 | **Client Sample Name:** 0843, MW-4-W-130808, 8/8/2013 8:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**1090**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**5.9**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**228.4**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	08/13/13	08/13/13 20:58	RML	MET-1	1	BWH0999
2	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
3	ASTM-D1498	08/12/13	08/12/13 16:34	RML	MET-1	1	BWH0857

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-07 | **Client Sample Name:** 0843, MW-5-W-130808, 8/8/2013 6:35:00AM

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)	97.6	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 22:56	EAR	MS-V12	1	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-07 | **Client Sample Name:** 0843, MW-5-W-130808, 8/8/2013 6:35:00AM

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)	108	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 16:20	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-07 | **Client Sample Name:** 0843, MW-5-W-130808, 8/8/2013 6:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**536**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**5.5**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**232.4**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	08/13/13	08/13/13 21:09	RML	MET-1	1	BWH0999
2	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
3	ASTM-D1498	08/12/13	08/12/13 16:38	RML	MET-1	1	BWH0857

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

Metals Analysis

BCL Sample ID: 1316834-07 | **Client Sample Name:** 0843, MW-5-W-130808, 8/8/2013 6:35:00AM

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	ND	ug/L	10	EPA-6010B	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/09/13	08/09/13 02:01	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/12/13	08/13/13 08:52	ARD	PE-OP2	1	BWH0823
3	EPA-6010B	08/14/13	08/15/13 11:00	ARD	PE-OP2	1	BWH1078

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-08 | **Client Sample Name:** 0843, MW-6-W-130808, 8/8/2013 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	**6.2**	**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)	100	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 23:13	EAR	MS-V12	1	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-08 | **Client Sample Name:** 0843, MW-6-W-130808, 8/8/2013 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)	97.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 16:40	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-08 | **Client Sample Name:** 0843, MW-6-W-130808, 8/8/2013 7:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**508**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**5.3**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**226.4**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	08/13/13	08/13/13 21:15	RML	MET-1	1	BWH0999
2	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
3	ASTM-D1498	08/12/13	08/12/13 16:42	RML	MET-1	1	BWH0857

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

Metals Analysis

BCL Sample ID: 1316834-08 | **Client Sample Name:** 0843, MW-6-W-130808, 8/8/2013 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
Total Chromium	ND	ug/L	10	EPA-6010B	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/09/13	08/09/13 02:01	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/12/13	08/13/13 08:53	ARD	PE-OP2	1	BWH0823
3	EPA-6010B	08/14/13	08/15/13 11:01	ARD	PE-OP2	1	BWH1078

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-09 | **Client Sample Name:** 0843, MW-7-W-130808, 8/8/2013 10:40:00AM

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	**2300**	**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	**2.7**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
t-Butyl alcohol	**1600**	**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)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.6	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 23:31	EAR	MS-V12	1	BWH0775
2	EPA-8260B	08/12/13	08/12/13 12:58	EAR	MS-V12	25	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-09 | **Client Sample Name:** 0843, MW-7-W-130808, 8/8/2013 10:40:00AM

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)	105	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 17:00	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-09 | **Client Sample Name:** 0843, MW-7-W-130808, 8/8/2013 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**11**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**29**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**669**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	**790**	**ug/L**	**100**	**SM-3500-FeD**	ND		3
Non-Volatile Organic Carbon	**2.6**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**5.3**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**39.65**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 21:47	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 21:20	RML	MET-1	1	BWH0999
3	SM-3500-FeD	08/12/13	08/12/13 09:42	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/19/13 22:20	CDR	TOC2	1	BWH1477
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0780
6	ASTM-D1498	08/12/13	08/12/13 16:48	RML	MET-1	1	BWH0857

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-09 | **Client Sample Name:** 0843, MW-7-W-130808, 8/8/2013 10:40:00AM

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		3
Total Chromium	**12**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**640**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
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	08/09/13	08/09/13 08:24	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 08:55	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 20:17	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 11:03	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/13/13	08/16/13 20:45	SRM	PE-EL2	1	BWH0904
6	EPA-200.8	08/19/13	08/19/13 19:45	SRM	PE-EL2	1	BWH1487

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-10 | **Client Sample Name:** 0843, MW-8-W-130808, 8/8/2013 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	**370**	**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	**180**	**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)	98.4	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.7	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/09/13 23:48	EAR	MS-V12	1	BWH0775
2	EPA-8260B	08/12/13	08/12/13 13:16	EAR	MS-V12	5	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-10 | **Client Sample Name:** 0843, MW-8-W-130808, 8/8/2013 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)	106	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 17:20	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-10 | **Client Sample Name:** 0843, MW-8-W-130808, 8/8/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**12**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**38**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**555**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	**200**	**ug/L**	**100**	**SM-3500-FeD**	ND		3
Non-Volatile Organic Carbon	**2.4**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**5.5**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**78.34**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 22:04	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 21:27	RML	MET-1	1	BWH0999
3	SM-3500-FeD	08/12/13	08/12/13 09:42	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/19/13 22:34	CDR	TOC2	1	BWH1477
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0781
6	ASTM-D1498	08/12/13	08/12/13 16:57	RML	MET-1	1	BWH0858

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-10 | **Client Sample Name:** 0843, MW-8-W-130808, 8/8/2013 11:40:00AM

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		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	**580**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**4.8**	**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	08/09/13	08/09/13 08:24	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 08:57	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 20:20	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 11:05	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/23/13	08/23/13 15:02	SRM	PE-EL1	1	BWH1917
6	EPA-200.8	08/15/13	08/21/13 02:20	JSS	PE-EL1	1	BWH1228

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-11 | **Client Sample Name:** 0843, MW-9-W-130808, 8/8/2013 8:52:00AM

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	**420**	**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	**190**	**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)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.6	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	99.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/10/13 00:06	EAR	MS-V12	1	BWH0775
2	EPA-8260B	08/12/13	08/12/13 13:33	EAR	MS-V12	5	BWH0775

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2000 Powell Street 7th Floor
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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-11 | **Client Sample Name:** 0843, MW-9-W-130808, 8/8/2013 8:52:00AM

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)	102	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 17:41	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-11 | **Client Sample Name:** 0843, MW-9-W-130808, 8/8/2013 8:52:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**15**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**40**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**571**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**3.3**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**7.1**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**165.2**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 22:21	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 21:33	RML	MET-1	1	BWH0999
3	SM-3500-FeD	08/12/13	08/12/13 10:08	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/19/13 22:48	CDR	TOC2	1	BWH1477
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0781
6	ASTM-D1498	08/12/13	08/12/13 17:06	RML	MET-1	1	BWH0858

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-11 | **Client Sample Name:** 0843, MW-9-W-130808, 8/8/2013 8:52:00AM

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	**79**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	**200**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**4.8**	**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	08/09/13	08/09/13 02:01	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 08:58	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 20:24	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 11:06	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/23/13	08/23/13 15:44	SRM	PE-EL1	1	BWH1917
6	EPA-200.8	08/15/13	08/21/13 02:23	JSS	PE-EL1	1	BWH1228

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-12 | **Client Sample Name:** 0843, MW-10-W-130808, 8/8/2013 8:05:00AM

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)	99.7	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/10/13 00:24	EAR	MS-V12	1	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-12 | **Client Sample Name:** 0843, MW-10-W-130808, 8/8/2013 8:05:00AM

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	08/15/13	08/16/13 18:01	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-12 | **Client Sample Name:** 0843, MW-10-W-130808, 8/8/2013 8:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**15**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**28**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**369**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**2.7**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**8.0**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**193.4**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 22:38	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 21:40	RML	MET-1	1	BWH0999
3	SM-3500-FeD	08/12/13	08/12/13 09:42	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/19/13 23:02	CDR	TOC2	1	BWH1477
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0781
6	ASTM-D1498	08/12/13	08/12/13 17:10	RML	MET-1	1	BWH0858

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-12 | **Client Sample Name:** 0843, MW-10-W-130808, 8/8/2013 8:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**5.0**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**6.5**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	**30**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
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	08/09/13	08/09/13 02:01	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 09:00	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 20:27	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 11:08	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/23/13	08/23/13 15:52	SRM	PE-EL1	1	BWH1917
6	EPA-200.8	08/15/13	08/21/13 02:26	JSS	PE-EL1	1	BWH1228

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1316834-13 | **Client Sample Name:** 0843, MW-11-W-130808, 8/8/2013 7:25:00AM

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	**880**	**ug/L**	**5.0**	**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	**0.91**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
t-Butyl alcohol	**680**	**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)	100	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	97.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/09/13	08/10/13 00:42	EAR	MS-V12	1	BWH0775
2	EPA-8260B	08/12/13	08/12/13 13:51	EAR	MS-V12	10	BWH0775

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1316834-13 | **Client Sample Name:** 0843, MW-11-W-130808, 8/8/2013 7:25:00AM

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)	102	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/15/13	08/16/13 18:22	jjh	GC-V9	1	BWH1240

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1316834-13 | **Client Sample Name:** 0843, MW-11-W-130808, 8/8/2013 7:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**6.1**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**30**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**705**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**4.7**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**7.6**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**251.2**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/09/13	08/09/13 22:55	LS1	IC1	1	BWH0752
2	EPA-120.1	08/13/13	08/13/13 21:45	RML	MET-1	1	BWH0999
3	SM-3500-FeD	08/12/13	08/12/13 11:01	TDC	KONE-1	1	BWH0910
4	EPA-415.1	08/19/13	08/19/13 23:16	CDR	TOC2	1	BWH1477
5	SM-4500OG	08/09/13	08/09/13 07:30	HPR	YSI-57	1	BWH0781
6	ASTM-D1498	08/12/13	08/12/13 17:15	RML	MET-1	1	BWH0858

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1316834-13 | **Client Sample Name:** 0843, MW-11-W-130808, 8/8/2013 7:25:00AM

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	**430**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	**590**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
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	08/09/13	08/09/13 02:01	TDC	KONE-1	1	BWH0839
2	EPA-6010B	08/08/13	08/13/13 09:02	ARD	PE-OP2	1	BWH0823
3	EPA-200.8	08/08/13	08/20/13 20:30	SRM	PE-EL2	1	BWH0958
4	EPA-6010B	08/14/13	08/15/13 11:10	ARD	PE-OP2	1	BWH1078
5	EPA-200.8	08/23/13	08/23/13 15:55	SRM	PE-EL1	1	BWH1917
6	EPA-200.8	08/15/13	08/21/13 02:29	JSS	PE-EL1	1	BWH1228

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Reported: 08/26/2013 17:09
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

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: BWH0775						
Benzene	BWH0775-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWH0775-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWH0775-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWH0775-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWH0775-BLK1	ND	ug/L	0.50		
Toluene	BWH0775-BLK1	ND	ug/L	0.50		
Total Xylenes	BWH0775-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BWH0775-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BWH0775-BLK1	ND	ug/L	10		
Diisopropyl ether	BWH0775-BLK1	ND	ug/L	0.50		
Ethanol	BWH0775-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BWH0775-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BWH0775-BLK1	96.5	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BWH0775-BLK1	93.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BWH0775-BLK1	104	%	80 - 120 (LCL - UCL)		

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

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: BWH0775										
Benzene	BWH0775-BS1	LCS	28.450	25.000	ug/L	114		70 - 130		
Toluene	BWH0775-BS1	LCS	26.140	25.000	ug/L	105		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BWH0775-BS1	LCS	9.4800	10.000	ug/L	94.8		75 - 125		
Toluene-d8 (Surrogate)	BWH0775-BS1	LCS	9.6800	10.000	ug/L	96.8		80 - 120		
4-Bromofluorobenzene (Surrogate)	BWH0775-BS1	LCS	10.730	10.000	ug/L	107		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: BWH0775	Used client sample: N										
Benzene	MS	1316245-12	ND	30.250	25.000	ug/L		121		70 - 130	
	MSD	1316245-12	ND	30.560	25.000	ug/L	1.0	122	20	70 - 130	
Toluene	MS	1316245-12	ND	25.890	25.000	ug/L		104		70 - 130	
	MSD	1316245-12	ND	29.890	25.000	ug/L	14.3	120	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1316245-12	ND	9.9200	10.000	ug/L		99.2		75 - 125	
	MSD	1316245-12	ND	8.9900	10.000	ug/L	9.8	89.9		75 - 125	
Toluene-d8 (Surrogate)	MS	1316245-12	ND	9.5900	10.000	ug/L		95.9		80 - 120	
	MSD	1316245-12	ND	10.180	10.000	ug/L	6.0	102		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1316245-12	ND	10.500	10.000	ug/L		105		80 - 120	
	MSD	1316245-12	ND	10.870	10.000	ug/L	3.5	109		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: BWH1240						
Gasoline Range Organics (C6 - C12)	BWH1240-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BWH1240-BLK1	105	%	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: BWH1240										
Gasoline Range Organics (C6 - C12)	BWH1240-BS1	LCS	997.95	1000.0	ug/L	99.8		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BWH1240-BS1	LCS	42.782	40.000	ug/L	107		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: BWH1240	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1316245-27	ND	1030.4	1000.0	ug/L		103		70 - 130	
	MSD	1316245-27	ND	913.11	1000.0	ug/L	12.1	91.3	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1316245-27	ND	42.117	40.000	ug/L		105		70 - 130	
	MSD	1316245-27	ND	41.729	40.000	ug/L	0.9	104		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: BWH0752						
Nitrate as NO3	BWH0752-BLK1	ND	mg/L	0.44		
Sulfate	BWH0752-BLK1	ND	mg/L	1.0		
QC Batch ID: BWH0910						
Iron (II) Species	BWH0910-BLK1	ND	ug/L	100		
QC Batch ID: BWH1476						
Non-Volatile Organic Carbon	BWH1476-BLK1	ND	mg/L	0.30		
QC Batch ID: BWH1477						
Non-Volatile Organic Carbon	BWH1477-BLK1	ND	mg/L	0.30		

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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: BWH0752										
Nitrate as NO3	BWH0752-BS1	LCS	21.868	22.134	mg/L	98.8		90 - 110		
Sulfate	BWH0752-BS1	LCS	98.415	100.00	mg/L	98.4		90 - 110		
QC Batch ID: BWH0910										
Iron (II) Species	BWH0910-BS1	LCS	2464.8	2500.0	ug/L	98.6		90 - 110		
QC Batch ID: BWH0998										
Electrical Conductivity @ 25 C	BWH0998-BS1	LCS	313.90	303.00	umhos/cm	104		90 - 110		
QC Batch ID: BWH0999										
Electrical Conductivity @ 25 C	BWH0999-BS1	LCS	318.70	303.00	umhos/cm	105		90 - 110		
QC Batch ID: BWH1476										
Non-Volatile Organic Carbon	BWH1476-BS1	LCS	5.1550	5.0000	mg/L	103		85 - 115		
QC Batch ID: BWH1477										
Non-Volatile Organic Carbon	BWH1477-BS1	LCS	5.1860	5.0000	mg/L	104		85 - 115		

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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: BWH0752	Used client sample: Y - Description: MW-1AR-W-130808, 08/08/2013 10:40										
Nitrate as NO3	DUP	1316834-03	17.720	18.455		mg/L	4.1		10		
	MS	1316834-03	17.720	40.391	22.358	mg/L		101		80 - 120	
	MSD	1316834-03	17.720	40.440	22.358	mg/L	0.1	102	10	80 - 120	
Sulfate	DUP	1316834-03	29.708	30.846		mg/L	3.8		10		
	MS	1316834-03	29.708	135.46	101.01	mg/L		105		80 - 120	
	MSD	1316834-03	29.708	135.20	101.01	mg/L	0.2	104	10	80 - 120	
QC Batch ID: BWH0780	Used client sample: N										
Dissolved Oxygen	DUP	1316800-01	4.9000	4.9000		mg O/L	0		10		
QC Batch ID: BWH0781	Used client sample: Y - Description: MW-8-W-130808, 08/08/2013 11:40										
Dissolved Oxygen	DUP	1316834-10	5.5000	5.5000		mg O/L	0		10		
QC Batch ID: BWH0857	Used client sample: N										
Oxidation Reduction Potential (Eobs_Ag/	DUP	1316760-01	126.70	128.08		mV	1.1		10		
QC Batch ID: BWH0858	Used client sample: Y - Description: MW-8-W-130808, 08/08/2013 11:40										
Oxidation Reduction Potential (Eobs_Ag/	DUP	1316834-10	78.340	81.300		mV	3.7		10		
QC Batch ID: BWH0910	Used client sample: Y - Description: MW-1-W-130808, 08/08/2013 11:40										
Iron (II) Species	DUP	1316834-02	108.37	ND		ug/L			10		A02
QC Batch ID: BWH0998	Used client sample: N										
Electrical Conductivity @ 25 C	DUP	1317165-01	1880.0	1867.0		umhos/cm	0.7		10		
QC Batch ID: BWH0999	Used client sample: Y - Description: MW-4-W-130808, 08/08/2013 08:35										
Electrical Conductivity @ 25 C	DUP	1316834-06	1087.0	1084.0		umhos/cm	0.3		10		
QC Batch ID: BWH1476	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1316709-01	0.38800	0.39100		mg/L	0.8		10		
	MS	1316709-01	0.38800	5.6884	5.0251	mg/L		105		80 - 120	
	MSD	1316709-01	0.38800	5.6834	5.0251	mg/L	0.1	105	10	80 - 120	
QC Batch ID: BWH1477	Used client sample: Y - Description: MW-1BR-W-130808, 08/08/2013 09:45										
Non-Volatile Organic Carbon	DUP	1316834-04	2.7060	2.8820		mg/L	6.3		10		
	MS	1316834-04	2.7060	7.7839	5.0251	mg/L		101		80 - 120	
	MSD	1316834-04	2.7060	7.9246	5.0251	mg/L	1.8	104	10	80 - 120	

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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: BWH0823						
Dissolved Chromium	BWH0823-BLK1	ND	ug/L	10		
QC Batch ID: BWH0839						
Hexavalent Chromium	BWH0839-BLK1	ND	ug/L	2.0		
QC Batch ID: BWH0904						
Total Recoverable Manganese	BWH0904-BLK1	ND	ug/L	1.0		
QC Batch ID: BWH0958						
Dissolved Manganese	BWH0958-BLK1	ND	ug/L	1.0		
Dissolved Vanadium	BWH0958-BLK1	ND	ug/L	3.0		
QC Batch ID: BWH1078						
Total Chromium	BWH1078-BLK1	ND	ug/L	10		
QC Batch ID: BWH1228						
Total Recoverable Vanadium	BWH1228-BLK1	ND	ug/L	3.0		
QC Batch ID: BWH1487						
Total Recoverable Vanadium	BWH1487-BLK1	ND	ug/L	3.0		
QC Batch ID: BWH1917						
Total Recoverable Manganese	BWH1917-BLK1	ND	ug/L	1.0		

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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: BWH0823										
Dissolved Chromium	BWH0823-BS1	LCS	183.10	200.00	ug/L	91.5		85 - 115		
QC Batch ID: BWH0839										
Hexavalent Chromium	BWH0839-BS1	LCS	51.665	50.000	ug/L	103		85 - 115		
QC Batch ID: BWH0904										
Total Recoverable Manganese	BWH0904-BS1	LCS	103.31	100.00	ug/L	103		85 - 115		
QC Batch ID: BWH0958										
Dissolved Manganese	BWH0958-BS1	LCS	101.99	100.00	ug/L	102		85 - 115		
Dissolved Vanadium	BWH0958-BS1	LCS	39.349	40.000	ug/L	98.4		85 - 115		
QC Batch ID: BWH1078										
Total Chromium	BWH1078-BS1	LCS	207.06	200.00	ug/L	104		85 - 115		
QC Batch ID: BWH1228										
Total Recoverable Vanadium	BWH1228-BS1	LCS	39.863	40.000	ug/L	99.7		85 - 115		
QC Batch ID: BWH1487										
Total Recoverable Vanadium	BWH1487-BS1	LCS	40.084	40.000	ug/L	100		85 - 115		
QC Batch ID: BWH1917										
Total Recoverable Manganese	BWH1917-BS1	LCS	105.45	100.00	ug/L	105		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: BWH0823	Used client sample: N										
Dissolved Chromium	DUP	1316832-20	ND	ND		ug/L			20		
	MS	1316832-20	ND	191.79	204.08	ug/L		94.0		75 - 125	
	MSD	1316832-20	ND	193.48	204.08	ug/L	0.9	94.8	20	75 - 125	
QC Batch ID: BWH0839	Used client sample: Y - Description: MW-5-W-130808, 08/08/2013 06:35										
Hexavalent Chromium	DUP	1316834-07	1.3220	ND		ug/L			10		A02
	MS	1316834-07	1.3220	54.428	52.632	ug/L		101		85 - 115	
	MSD	1316834-07	1.3220	54.691	52.632	ug/L	0.5	101	10	85 - 115	
QC Batch ID: BWH0904	Used client sample: N										
Total Recoverable Manganese	DUP	1316805-01	1372.4	1452.5		ug/L	5.7		20		
	MS	1316805-01	1372.4	1362.3	100.00	ug/L		-10.0		70 - 130	A03
	MSD	1316805-01	1372.4	1416.4	100.00	ug/L	3.9	44.1	20	70 - 130	A03
QC Batch ID: BWH0958	Used client sample: N										
Dissolved Manganese	DUP	1317743-01	0.34100	ND		ug/L			20		
	MS	1317743-01	0.34100	99.090	102.04	ug/L		96.8		70 - 130	
	MSD	1317743-01	0.34100	98.305	102.04	ug/L	0.8	96.0	20	70 - 130	
Dissolved Vanadium	DUP	1317743-01	4.8310	4.4540		ug/L	8.1		20		
	MS	1317743-01	4.8310	45.112	40.816	ug/L		98.7		70 - 130	
	MSD	1317743-01	4.8310	44.894	40.816	ug/L	0.5	98.2	20	70 - 130	
QC Batch ID: BWH1078	Used client sample: N										
Total Chromium	DUP	1316943-02	13.345	13.470		ug/L	0.9		20		
	MS	1316943-02	13.345	217.16	200.00	ug/L		102		75 - 125	
	MSD	1316943-02	13.345	217.99	200.00	ug/L	0.4	102	20	75 - 125	
QC Batch ID: BWH1228	Used client sample: N										
Total Recoverable Vanadium	DUP	1317210-01	6.4200	6.2870		ug/L	2.1		20		
	MS	1317210-01	6.4200	43.982	40.000	ug/L		93.9		70 - 130	
	MSD	1317210-01	6.4200	43.220	40.000	ug/L	1.7	92.0	20	70 - 130	
QC Batch ID: BWH1487	Used client sample: N										
Total Recoverable Vanadium	DUP	1316941-04	18.260	ND		ug/L			20		
	MS	1316941-04	18.260	ND	40.000	ug/L		71.0		70 - 130	
	MSD	1316941-04	18.260	60.480	40.000	ug/L	25.8	106	20	70 - 130	Q02
QC Batch ID: BWH1917	Used client sample: Y - Description: MW-8-W-130808, 08/08/2013 11:40										
Total Recoverable Manganese	DUP	316834-10RE1	577.69	582.02		ug/L	0.7		20		
	MS	316834-10RE1	577.69	661.07	100.00	ug/L		83.4		70 - 130	
	MSD	316834-10RE1	577.69	701.58	100.00	ug/L	5.9	124	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.
A03	The sample concentration is more than 4 times the spike level.
Q02	Matrix spike precision is not within the control limits.
S05	The sample holding time was exceeded.