



Nicole Arceneaux
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
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Tel (925) 790-6912
Nicole.Arceneaux@chevron.com

April 29, 2016

Ms. Dilan Roe
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health 3:48 pm, Apr 29, 2016

RE: First Half 2016 Semi-Annual Groundwater Monitoring Report

800, 726, and 706 Harrison Street, Oakland, California 94607
Fuel Leak Case No.: RO0000231, RO0000321, and RO0000484
Comingled Plume Claim No. 6678

Dear Ms. Roe,

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

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

Sincerely,

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

Nicole Arceneaux
Project Manager

Attachment
First Half 2016 Semi-Annual Groundwater Monitoring Report

Ms. Dilan Roe
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject:
First Half 2016 Semi-Annual Groundwater Monitoring Report Submittal

ENVIRONMENT

Dear Ms. Roe:

On behalf of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), Arcadis is submitting the enclosed Semi-Annual Groundwater Monitoring Report for the following facility:

Date:
April 29, 2016

Contact:
Tamera Rogers

<u>Facility No.</u>	<u>Case No.</u>	<u>Location</u>
0752/YEE/GIN Comingled Plume	RO0000231	706/726/800 Harrison St Oakland, California

Phone:
408.797.2013

Email:
Tamera.Rogers@
arcadis.com

If you have any questions or comments regarding the contents of this document, please contact Ms. Nicole Arceneaux of Chevron at 925.790.6912 or by e-mail at Nicole.Arceneaux@Chevron.com. Alternatively, you may contact Tamera Rogers of ARCADIS at 408.797.2013 or by e-mail at Tamera.Rogers@arcadis.com.

Our ref:
B0047339.2015

Sincerely,

ARCADIS



Tamera Rogers
Project Manager



Katherine Brandt, P.G.
Senior Geologist



Copies:

Ms. Dilan Roe April 29, 2016



Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, California 94612 (Geotracker)

Ms. Nicole Arceneaux, Union Oil of California (electronic copy only)

Mr. Muhammad Usman and Mr. Mahmood M. Ali, Property Owners - 800 Harrison Street, Oakland, California

Mr. Peter Yee and Mr. Kin Chan, 726 Harrison Street Property Owners

Mr. Bo Gin, 726 Harrison Street Property Owner – 342 Lester Avenue, Oakland, California 94606

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2016
April 29, 2016**

Facility No.: 0752/Yee/Gin Address: 706/726/800 Harrison Street, Oakland, California
Comingled Plume

Consulting Company/Contact Person/Phone No.: ARCADIS / Tamera Rogers / 408.797.2013
Primary Agency/Contact Person/Regulatory ID No.: Alameda County Environmental Health (ACEH) / Ms. Dilan Roe / Case No. RO0000231

WORK PERFORMED DURING THIS REPORTING PERIOD (First Quarter – 2016) :

1. Gettler-Ryan, Inc. (G-R) conducted groundwater monitoring and sampling on February 11, 2016. Field data sheets and general procedures are included as **Attachment A**. Eight (8) groundwater monitoring wells associated with the former Unocal station no. 0752, five (5) wells associated with 706 Harrison Street (GIN), and eight (8) groundwater monitoring wells associated with 726 Harrison Street (YEE) were gauged and sampled during this monitoring event. Air sparge well AS-1 was neither gauged nor sampled during this monitoring event. MW-4 and MW-6 on 706 Harrison Street were neither gauged nor sampled due to a parked car that blocked off access to MW-4, and well MW-6 being paved over.

Groundwater samples were analyzed for total purgeable petroleum hydrocarbons (TPPH) by Environmental Protection Agency (EPA) Method 8015B-GC/MS; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), methyl tert-butyl ether (MTBE) by Environmental Protection Agency (EPA) Method 8260B.

The site location map, the site plan, and the groundwater contour map are presented on **Figures 1** through **3**. Concentration maps for TPPH, benzene, and MTBE are on **Figures 4** through **6**. Current Groundwater Gauging and Analytical Results are summarized in **Table 1**, Historical Groundwater Gauging and Analytical Results are summarized in **Table 2**, 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**.

On August 21, 2013, Muir Consulting, Inc. (Muir) completed a survey of all the well locations for 726 Harrison Street in Oakland, California. The updated survey elevations are presented in **Tables 1** and **2**. A survey discrepancy prevented the conversion of the elevations for 706 Harrison Street. Therefore the elevations for 706 Harrison remained the same for this quarter's groundwater contouring and are presented on the groundwater contour map separately. The wells on the three sites will be resurveyed following system installation.

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Second Quarter – 2016):

1. Perform groundwater monitoring and related reporting during second quarter 2016.

Current Phase of Project:	<u>Groundwater Monitoring/ Remedial Action Implementation</u>
Site Use:	<u>Active 76 branded service station/parking lots (YEE/GIN)</u>
Frequency of Sampling:	<u>Groundwater – Semi-Annually</u>
Frequency of Monitoring:	<u>Groundwater – Semi-Annually</u>
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:	<u>No</u>
Cumulative SPH Recovered to Date:	<u>None</u>
SPH Recovered This Quarter:	<u>None</u>
Bulk Soil Removed to Date:	<u>Unknown</u>
Bulk Soil Removed this Quarter:	<u>None</u>
Water Wells or Surface Waters within a 2000' Radius and Their Respective Directions:	<u>San Francisco Bay (approximately 300 ft west)</u>

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2016
April 29, 2016**

Facility No.: 0752/Yee/Gin Address: 706/726/800 Harrison Street, Oakland, California
Comingled Plume

Groundwater Use Designation: Potential Drinking Water Source – Santa Clara Valley – East Bay Plain

Current Remediation Techniques: Planned Air Sparge with Vapor Extraction

Permits for Discharge (No.): None

Approximate Depth to Groundwater (at Unocal 0752 and 726 Harrison Street): 18.14 (Unocal 0752 MW-6) – 25.69 (726 Harrison Street MW-6) feet below top of casing
Measured Estimated

Approximate Groundwater Elevation (at Unocal 0752 and 726 Harrison Street): 8.84 (726 Harrison Street MW-6) – 17.45 (Unocal 0752 MW-2) feet relative to mean sea level

Approximate Depth to Groundwater (at 706 Harrison Street): Measured Estimated
15.92 (MW-5) - 17.69 (MW-2) feet below top of casing

Approximate Groundwater Elevation (at 706 Harrison Street): Measured Estimated
11.80 (MW-1) – 12.84 (MW-2) feet relative to mean sea level
Measured Estimated

Groundwater Gradient (at Unocal 0752 and 726 Harrison Street): 0.006 ft/ft (Magnitude) Southwest (Direction)

Groundwater Gradient (at 706 Harrison Street): 0.005 ft/ft (Magnitude) Southwest (Direction)

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2016
April 29, 2016**

Facility No.: 0752/Yee/Gin Address: 706/726/800 Harrison Street, Oakland, California
Comingled Plume

DISCUSSION:

Groundwater conditions during the First quarter 2016 remained relatively consistent with previous quarters.

706 Harrison Street:

The maximum dissolved concentration of TPPH (42,000 micrograms per liter [$\mu\text{g/L}$]), benzene (680 $\mu\text{g/L}$), toluene (2,400 $\mu\text{g/L}$), ethylbenzene (550 $\mu\text{g/L}$), total xylenes (2,200 $\mu\text{g/L}$), and MTBE (1,600 $\mu\text{g/L}$) were detected in the sample collected from MW-2.

726 Harrison Street:

The maximum dissolved concentrations of benzene (820 $\mu\text{g/L}$), toluene (83 $\mu\text{g/L}$), ethylbenzene (130 $\mu\text{g/L}$), total xylenes (180 $\mu\text{g/L}$) and MTBE (1,400 $\mu\text{g/L}$) were detected in the sample collected from MW-5. The maximum dissolved concentrations of TPPH (2,800 $\mu\text{g/L}$) and MTBE (1,400 $\mu\text{g/L}$) were detected in the sample collected from MW-1.

800 Harrison Street:

The maximum dissolved concentrations of TPPH (2,500 $\mu\text{g/L}$), ethylbenzene (3.1 $\mu\text{g/L}$), Total xylenes (3.7 $\mu\text{g/L}$) and MTBE (54 $\mu\text{g/L}$) were detected in the sample collected from MW-3. The maximum dissolved concentration of benzene (10 $\mu\text{g/L}$) was detected in the sample collected from MW-7. The maximum dissolved concentrations of toluene (2.1 $\mu\text{g/L}$) were detected in the sample collected from MW-5.

Groundwater elevations at the site for 726 and 800 Harrison Street vary by approximately eight feet, due to a low groundwater elevation at MW-6. MW-6 and MW-1 groundwater elevation was not used in calculating the hydraulic gradient. The remaining wells create a relatively gentle hydraulic gradient of 0.006 foot per foot (ft/ft) in the southwest direction. Groundwater elevations at the site for 706 Harrison Street vary by approximately one foot, creating a relatively gentle hydraulic gradient of 0.005 ft/ft in the southwest direction.

CONCLUSIONS AND RECOMMENDATIONS:

TPPH, Benzene, Toluene, Ethyl-Benzene, Total Xylenes and MTBE concentrations at 726 Harrison Street have significantly decreased from the fourth quarter 2015 monitoring event. With the exception of MW-5 and the TPPH concentration at MW-7, the concentrations of contaminants of concern have slightly increased since the fourth quarter 2015 sampling event at 800 Harrison Street. With the exception of TPPH concentration at MW-2, the contaminants of concern have decreased since the fourth quarter 2015 sampling event at 706 Harrison Street. Arcadis recommends continued groundwater monitoring. Arcadis has submitted a Remedial Action Plan (RAP) and RAP Addendum to address the elevated concentrations on 706 and 726 Harrison Street. Arcadis has begun implementation of the RAP and RAP addendum.

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2016
April 29, 2016**

Facility No.: 0752/Yee/Gin Address: 706/726/800 Harrison Street, Oakland, California
Comingled Plume

ATTACHMENTS:

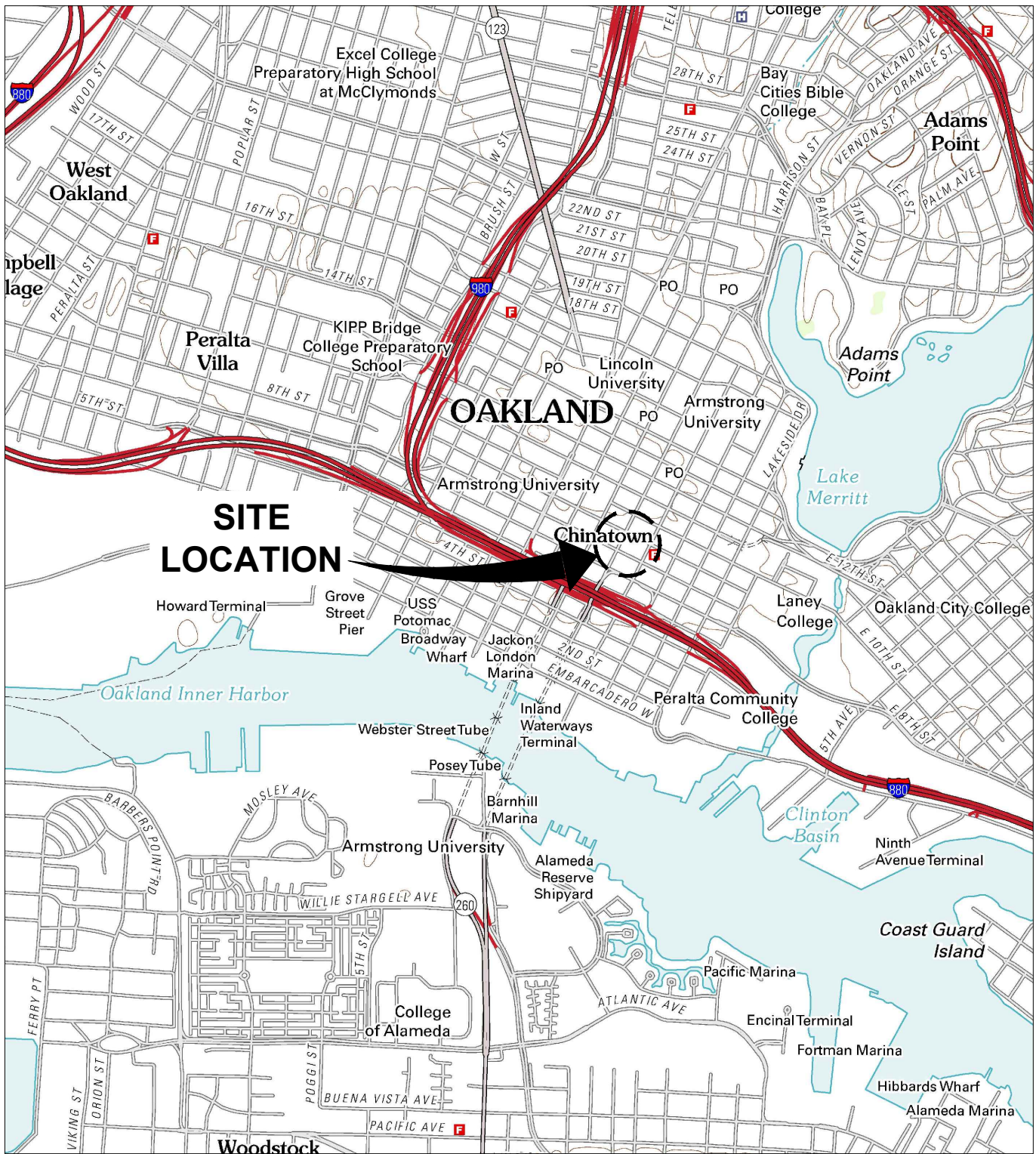
- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Contour Map
- Figure 4: TPPH Isoconcentration Map
- Figure 5: Benzene Isoconcentration Map
- Figure 6: MTBE Isoconcentration Map

- Table 1: Current Groundwater Gauging and Analytical Results
- Table 1A: Additional Groundwater Analytical Results-MNA Parameters
- Table 1B: Additional Groundwater Analytical Results-Metals
- Table 2: Historical Groundwater Gauging and Analytical Results
- Table 2A: Historical Additional Groundwater Analytical Results – MNA Parameters
- Table 2B: Historical Additional Groundwater Analytical Results – Metals

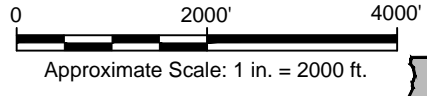
- Attachment A: Field Data Sheets and General Procedures
- Attachment B: Historical Groundwater Results from TRC
- Attachment C: Laboratory Reports and Chain-of-Custody Documentation

Figures

CITY: SAN RAFAEL, CA DIV/GROUP: ENV DB: J. HARRIS
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 XREFS: Oakland West 2012.rpg



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 2012.



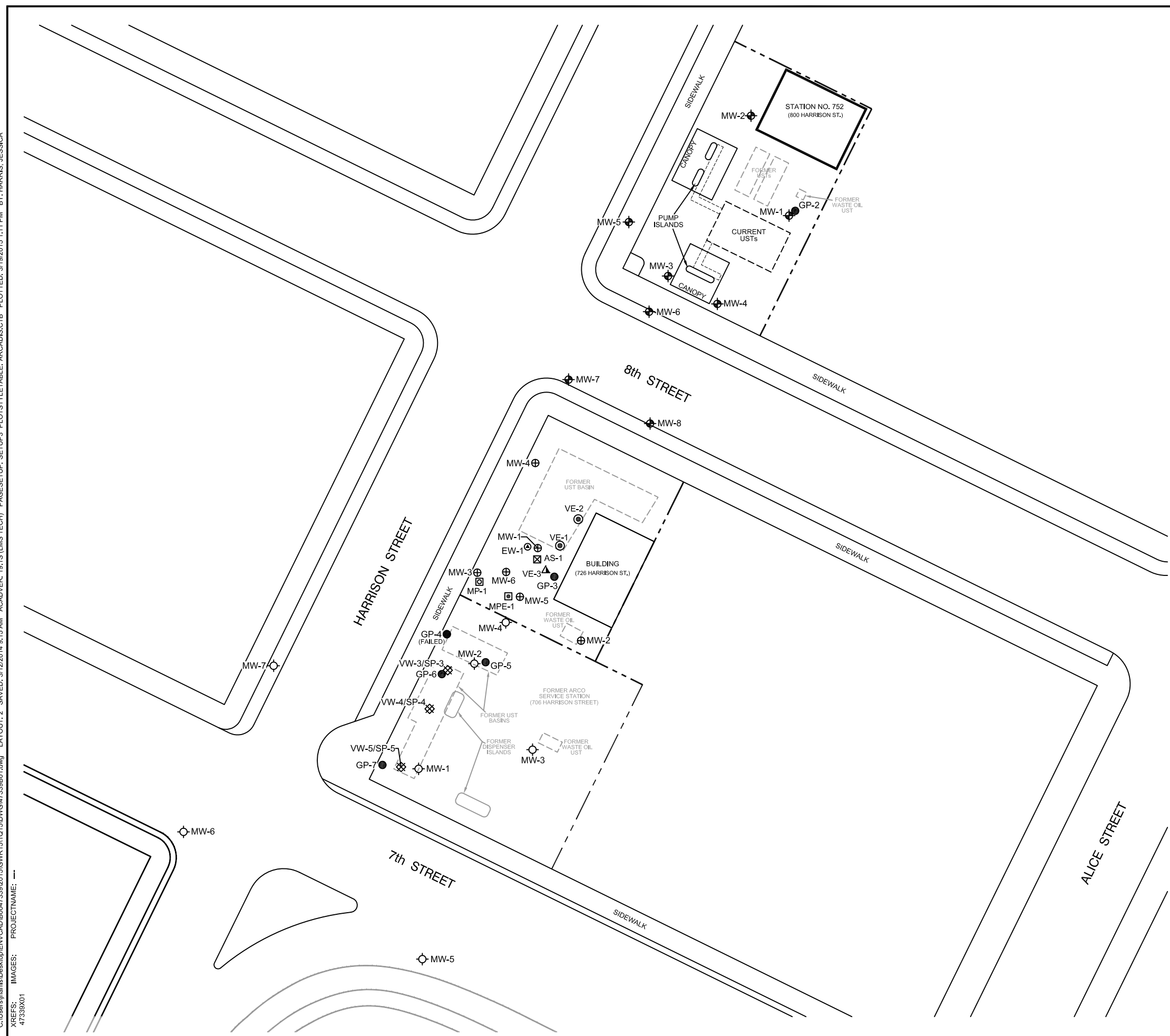
UNION OIL OF CALIFORNIA
 STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRISON STREET
 OAKLAND, CALIFORNIA

SITE LOCATION MAP



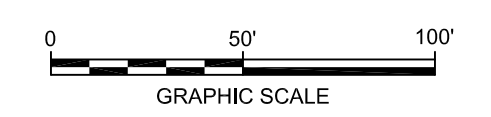
FIGURE
1

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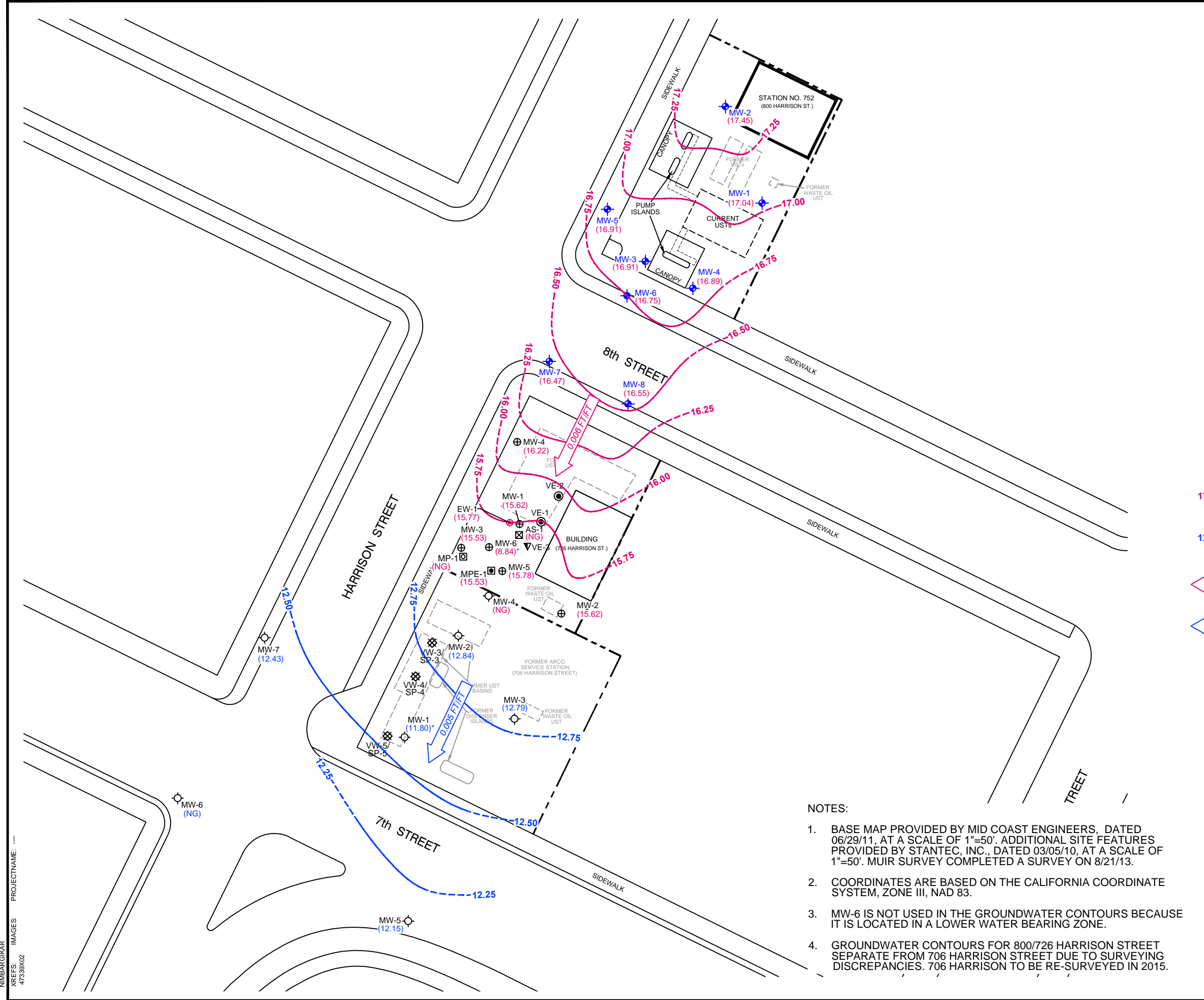
- LEGEND**
- PROPERTY BOUNDARY
 - PRODUCT PIPING
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL)
 - MW-1 ⊙ GROUNDWATER MONITORING WELL (GIN)
 - VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE)
 - AS-1 ⊠ AIR SPARGE WELL (YEE)
 - EW-1 ⊕ EXTRACTION WELL (YEE)
 - GP-2 ● GEOPROBE™ (JUNE 2011)
 - MPE-1 ⊠ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE)
 - MP-1 ⊠ PILOT TEST MONITORING POINT
 - VE-1 ⊙ VAPOR EXTRACTION WELL
 - VE-3 ▲ PILOT TEST VAPOR EXTRACTION WELL

- NOTE:**
1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
 2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.

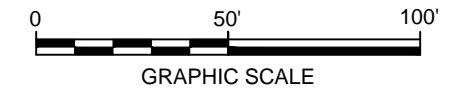


UNION OIL OF CALIFORNIA STATION NO. 0752/YEE/GIN COMMINGLED 706/726/800 HARRISON STREET OAKLAND, CALIFORNIA	
SITE PLAN	
	FIGURE 2

CITY: SAN RAFAEL, CA (PETA LUMA) DIV: GROUP: ENV/CAAD DB: J. HARRIS, R. HUBBARD, J. HARRIS
 CLIENT: Arcadis US/CA/US/CA PROJECTS: CHEVRON/Chertron 351646/E-Drawings/47339/01.dwg LAYOUT: 3
 XREFS: IMAGES: PROJECTNAME: 47339X02



- LEGEND**
- PROPERTY BOUNDARY
 - PRODUCT PIPING
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
 - EW-1 ⊕ EXTRACTION WELL (YEE SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (GIN SITE)
 - VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
 - MPE-1 ⊕ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE) (YEE SITE)
 - MP-1 ⊕ PILOT TEST MONITORING POINT (YEE SITE)
 - VE-1 ⊕ VAPOR EXTRACTION WELL (YEE SITE)
 - VE-3 ⊕ PILOT TEST VAPOR EXTRACTION WELL (YEE SITE)
 - AS-1 ⊕ AIR SPARGE WELL (YEE SITE)
 - (17.45) --- GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL) (UNOCAL AND YEE SITE)
 - (12.84) --- GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL) (GIN SITE)
 - 17.25 --- GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED) (UNOCAL AND YEE SITE)
 - 12.75 --- GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED) (GIN SITE)
 - ← 0.006 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT) (UNOCAL AND YEE SITE)
 - ← 0.005 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT) (GIN SITE)
 - (NG) NOT GAUGED
 - (NG) NOT GAUGED
 - NOT USED IN GROUNDWATER CONTOURING AND GRADIENT CALCULATION



- NOTES:**
- BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'. MUIR SURVEY COMPLETED A SURVEY ON 8/21/13.
 - COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
 - MW-6 IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.
 - GROUNDWATER CONTOURS FOR 800/726 HARRISON STREET SEPARATE FROM 706 HARRISON STREET DUE TO SURVEYING DISCREPANCIES. 706 HARRISON TO BE RE-SURVEYED IN 2015.

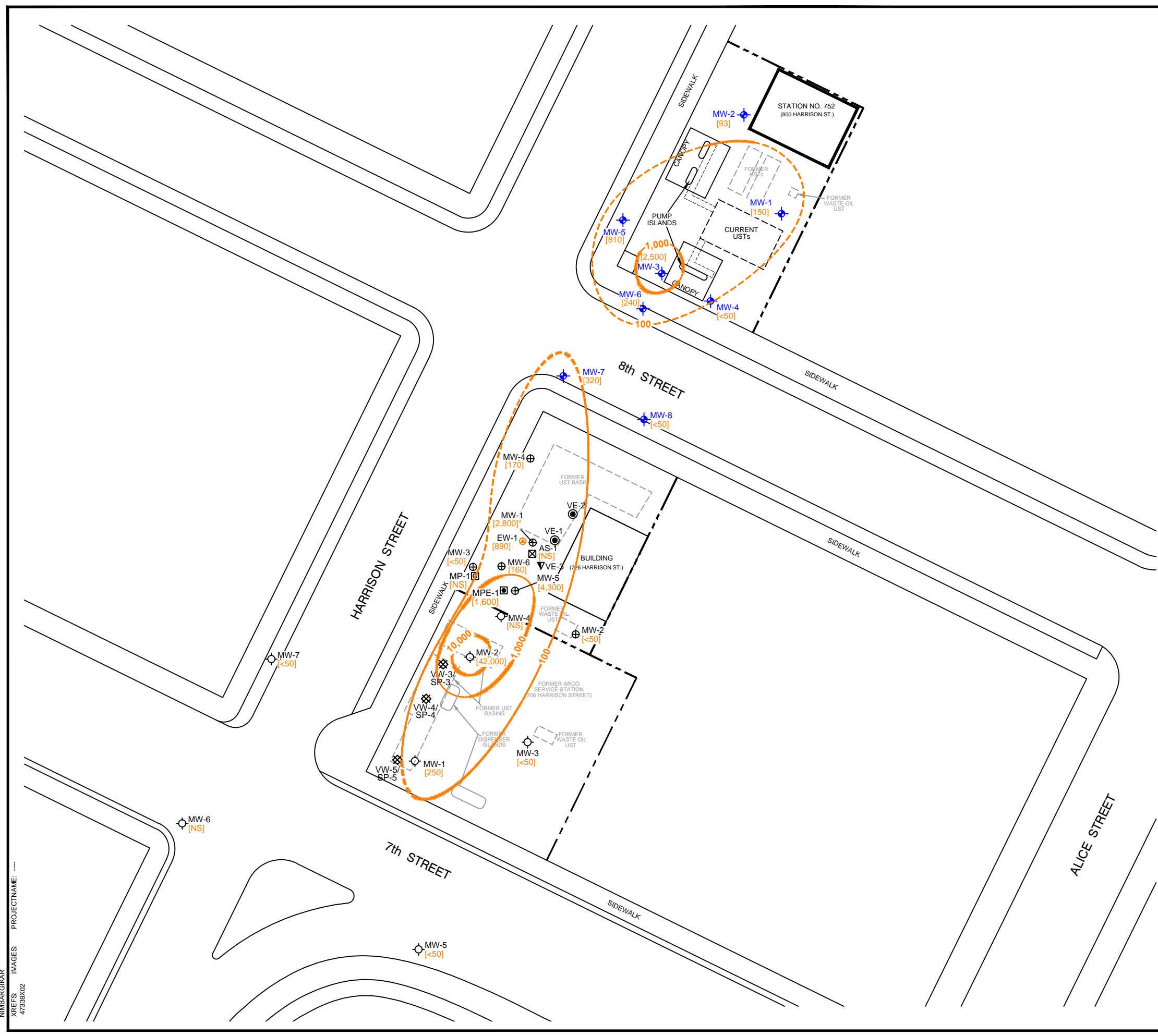
UNION OIL OF CALIFORNIA STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRISON STREET OAKLAND, CALIFORNIA

**SEMI-ANNUAL SITE STATUS REPORT
 FIRST QUARTER 2016**

**GROUNDWATER ELEVATION
 CONTOUR MAP**

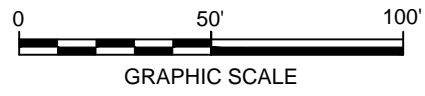
ARCADIS | FIGURE 3

CITY: SAN RAFAEL, CA (PETA LUMA) DIV: GROUP: ENV/CAAD DB: J. HARRIS, R. HUBBATCH, J. HARRIS
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- LEGEND**
- PROPERTY BOUNDARY
 - PRODUCT PIPING
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
 - EW-1 ⊕ EXTRACTION WELL (YEE SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (GIN SITE)
 - VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
 - MPE-1 ⊕ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE) (YEE SITE)
 - MP-1 ⊕ PILOT TEST MONITORING POINT (YEE SITE)
 - VE-1 ⊕ VAPOR EXTRACTION WELL (YEE SITE)
 - VE-3 ⊕ PILOT TEST VAPOR EXTRACTION WELL (YEE SITE)
 - AS-1 ⊗ AIR SPARGE WELL (YEE SITE)
 - [330] TOTAL PURGEABLE PETROLEUM HYDROCARBONS (TPPH) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
 - 100 ——— TPH ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
 - < DENOTES LESS THAN LABORATORY REPORTING LIMIT
 - [NS] NOT SAMPLED
 - WELL NOT USED IN CONCENTRATION CONTOURING

- NOTES:**
- BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'. MUIR SURVEY COMPLETED A SURVEY ON 8/21/13.
 - COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
 - MW-6 IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.



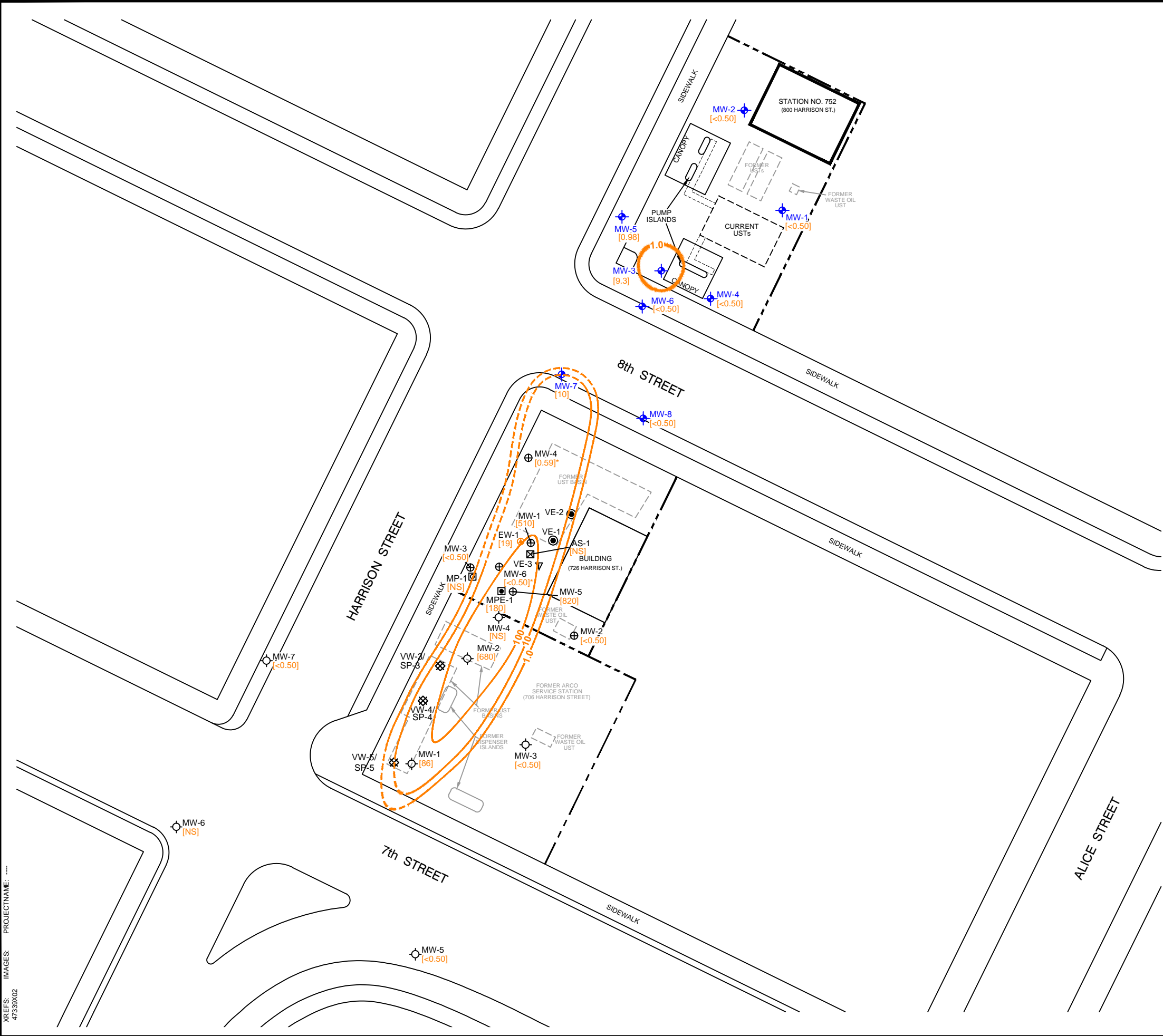
UNION OIL OF CALIFORNIA STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRISON STREET OAKLAND, CALIFORNIA
SEMI-ANNUAL SITE STATUS REPORT
FIRST QUARTER 2016

TPPH ISOCONCENTRATION MAP



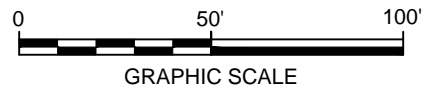
FIGURE
4

CITY: SAN RAFAEL, CA (PETALUMA) DIV: GROUP: ENV/CAD DB: J. HARRIS, R. HUBBACH, J. HARRIS
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- LEGEND**
- PROPERTY BOUNDARY
 - - - - - PRODUCT PIPING
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
 - EW-1 ⊕ EXTRACTION WELL (YEE SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (GIN SITE)
 - VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
 - MPE-1 ⊕ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE) (YEE SITE)
 - MP-1 ⊕ PILOT TEST MONITORING POINT (YEE SITE)
 - VE-1 ⊕ VAPOR EXTRACTION WELL (YEE SITE)
 - VE-3 ⊕ PILOT TEST VAPOR EXTRACTION WELL (YEE SITE)
 - AS-1 ⊕ AIR SPARGE WELL (YEE SITE)
 - [820] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
 - 100 — BENZENE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
 - < DENOTES LESS THAN LABORATORY REPORTING LIMIT
 - [NS] NOT SAMPLED
 - WELL NOT USED IN CONCENTRATION CONTOURING

- NOTES:**
- BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'. MUIR SURVEY COMPLETED A SURVEY ON 8/21/13.
 - COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
 - MW-6 IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.



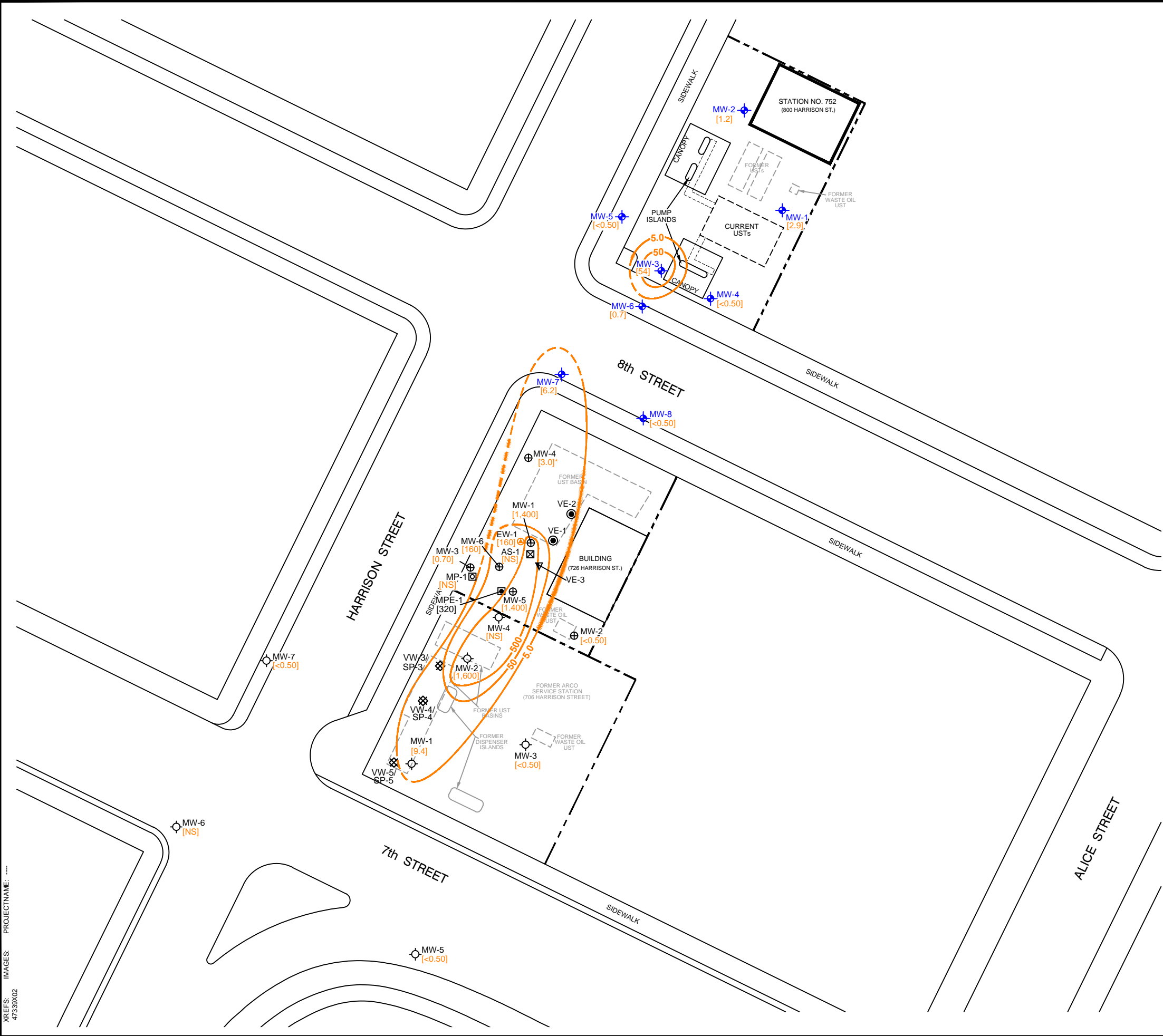
UNION OIL OF CALIFORNIA STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRISON STREET OAKLAND, CALIFORNIA

**SEMI-ANNUAL SITE STATUS REPORT
 FIRST QUARTER 2016**

BENZENE ISOCONCENTRATION MAP

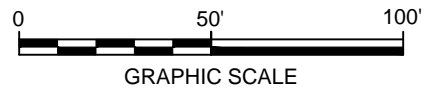
ARCADIS | FIGURE 5

CITY: SAN RAFAEL, CA (PETALUMA) DIV: GROUP: ENV/CAD DB: J. HARRIS, R. HUBBACH, J. HARRIS
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 XREFS: IMAGES: PROJECTNAME: 4733902



- LEGEND**
- PROPERTY BOUNDARY
 - - - - - PRODUCT PIPING
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
 - EW-1 ⊕ EXTRACTION WELL (YEE SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (GIN SITE)
 - VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
 - MPE-1 ⊕ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE) (YEE SITE)
 - MP-1 ⊕ PILOT TEST MONITORING POINT (YEE SITE)
 - VE-1 ⊕ VAPOR EXTRACTION WELL (YEE SITE)
 - VE-3 ⊕ PILOT TEST VAPOR EXTRACTION WELL (YEE SITE)
 - AS-1 ⊕ AIR SPARGE WELL (YEE SITE)
 - [54] METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
 - 500 ——— MTBE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
 - < DENOTES LESS THAN LABORATORY REPORTING LIMIT
 - [NS] NOT SAMPLED
 - WELL NOT USED IN CONCENTRATION CONTOURING

- NOTES:**
1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'. MUIR SURVEY COMPLETED A SURVEY ON 8/21/13.
 2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
 3. MW-6 IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.



UNION OIL OF CALIFORNIA STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRISON STREET OAKLAND, CALIFORNIA

**SEMI-ANNUAL SITE STATUS REPORT
 FIRST QUARTER 2016**

MTBE ISOCONCENTRATION MAP

ARCADIS | FIGURE 6

Tables

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet)	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet AMSL)	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
800 Harrison Street																	
MW-1	2/11/2016	37.22	20.18	0.00	17.04	16.39	0.65	150	<0.50	<0.50	<0.50	<1.0	2.9	--	--	--	
MW-2	2/11/2016	37.44	19.99	0.00	17.45	16.90	0.55	93	<0.50	<0.50	<0.50	<1.0	1.2	--	--	--	
MW-3	2/11/2016	35.88	18.97	0.00	16.91	16.15	0.76	2,500	9.3	1.9	3.1	3.7	54	--	--	--	
MW-4	2/11/2016	35.42	18.53	0.00	16.89	16.18	0.71	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-5	2/11/2016	35.68	18.77	0.00	16.91	16.30	0.61	810	0.98	2.1	0.77	2.6	<0.50	--	--	--	
MW-6	2/11/2016	34.89	18.14	0.00	16.75	16.04	0.71	240	<0.50	<0.50	<0.50	<1.0	0.7	--	--	--	
MW-7	2/11/2016	34.92	18.45	0.00	16.47	15.76	0.71	320	10	1.2	0.6	2.4	6.2	--	--	--	
MW-8	2/11/2016	34.73	18.18	0.00	16.55	15.77	0.78	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
706 Harrison Street																	
MW-1	2/11/2016	29.17	17.37	0.00	11.80	--	--	250	86	3.6	5.6	8.8	9.4	--	--	--	
MW-2	2/11/2016	30.53	17.69	0.00	12.84	11.88	0.96	42,000	680	2,400	550	2,200	1,600	--	--	--	A01
MW-3	2/11/2016	29.79	17.00	0.00	12.79	11.76	1.03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-4	2/11/2016	31.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-5	2/11/2016	28.07	15.92	0.00	12.15	10.97	1.18	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-6	2/11/2016	29.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
MW-7	2/11/2016	29.70	17.27	0.00	12.43	11.59	0.84	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
726 Harrison Street																	
AS-1	2/11/2016	34.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-1	2/11/2016	34.37	18.60	0.00	15.77	14.92	0.85	890	19	1.2	1.8	1.8	160	--	--	--	A01
MP-1	2/11/2016	34.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked over
MPE-1	2/11/2016	34.36	18.83	0.00	15.53	14.64	0.89	1,600	180	14	21	24	320	--	--	--	A01
MW-1	2/11/2016	34.45	18.83	0.00	15.62	14.82	0.80	2,800	510	20	68	72	1,400	--	--	--	A01
MW-2	2/11/2016	34.91	19.29	0.00	15.62	14.68	0.94	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-3	2/11/2016	34.12	18.59	0.00	15.53	14.71	0.82	<50	<0.50	<0.50	<0.50	<1.0	0.70	--	--	--	
MW-4	2/11/2016	35.05	18.83	0.00	16.22	12.09	4.13	170	0.59	<0.50	<0.50	<1.0	3	--	--	--	
MW-5	2/11/2016	34.76	18.98	0.00	15.78	14.89	0.89	4,300	820	83	130	180	1,400	--	--	--	A01
MW-6	2/11/2016	34.53	25.69	0.00	8.84	7.73	1.11	160	<0.50	<0.50	<0.50	<1.0	160	--	--	--	A01, A90

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Notes

Analytical results given in micrograms per liter.

Muir Consulting, Inc. completed a survey of 726 Harrison well locations on August 21, 2013. Elevation data for 800 Harrison Street was converted by using the National Geodetic Survey (NGS) online conversion calculator NAV29 to NAV88. The 706 Harrison Street data was not converted due to discrepancies with the data.

EPA Method 8260B for Volatile Organic Compounds.

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
AMSL	above mean sealevel
btoc	below top of casing
DTW	depth to water
GC/MS	gas chromatography–mass spectrometry for TPPH
GW	groundwater
GWE	groundwater elevation
LPH	liquid-phase hydrocarbons
TOC	top of casing (surveyed reference elevation)
A01	PQL's and MDL's are raised due to sample dilution
A90	TPPH does not exhibit "gasoline" pattern, TPPH is entirely due to MTBE
S09	the surrogate recovery on the sample was not within the control limits

Analytes

TPPH	total purgeable petroleum hydrocarbons (C6-C12)
MTBE	methyl tertiary butyl ether
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane (same as ethylene dichloride)

Table 2
Historical Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet)	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet AMSL)	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MS)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
800 Harrison Street																	
MW-1	2/7/2012	34.72	20.00	0.00	14.72	15.22	-0.50	97	<0.50	<0.50	<0.50	<1.0	8.6	<0.50	<0.50	--	
MW-1	8/9/2012	34.72	19.14	0.00	15.58	14.72	0.86	140	<0.50	<0.50	<0.50	<1.0	18	<0.50	<0.50	<250	
MW-1	2/27/2013	34.72	19.41	0.00	15.31	15.58	-0.27	50	<0.50	<0.50	<0.50	<1.0	6.7	<0.50	<0.50	<250	
MW-1	8/15/2013	37.22	20.20	0.00	17.02	15.31	1.71	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-1	2/6/2014	37.22	21.09	0.00	16.13	17.02	-0.89	<50	<0.50	<0.50	<0.50	<1.0	1.6	<0.50	<0.50	<250	
MW-1	8/14/2014	37.22	20.98	0.00	16.24	16.13	0.11	<50	<0.50	<0.50	<0.50	<1.0	2	--	--	--	
MW-1	2/17/2015	37.22	20.03	0.00	17.19	16.24	0.95	110	<0.50	<0.50	<0.50	<1.0	5.0	--	--	--	
MW-1	8/6/2015	37.22	20.83	0.00	16.39	17.19	-0.80	67	<0.50	<0.50	<0.50	<1.0	1.1	--	--	--	
MW-1	2/11/2016	37.22	20.18	0.00	17.04	16.39	0.65	150	<0.50	<0.50	<0.50	<1.0	2.9	--	--	--	
MW-2	2/7/2012	34.74	19.77	0.00	14.97	15.42	-0.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-2	8/9/2012	34.74	18.89	0.00	15.85	14.97	0.88	<50	<0.50	<0.50	<0.50	<1.0	4.7	<0.50	<0.50	<250	
MW-2	2/27/2013	34.74	19.16	0.00	15.58	15.85	-0.27	<50	<0.50	<0.50	<0.50	<1.0	9.6	<0.50	<0.50	<250	
MW-2	8/15/2013	37.44	19.99	0.00	17.45	15.58	1.87	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-2	2/6/2014	37.44	20.82	0.00	16.62	17.45	-0.83	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-2	8/14/2014	37.44	20.68	0.00	16.76	16.62	0.14	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-2	2/17/2015	37.44	19.79	0.00	17.65	16.76	0.89	57	<0.50	<0.50	<0.50	<1.0	1.4	--	--	--	
MW-2	8/6/2015	37.44	20.54	0.00	16.90	17.65	-0.75	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-2	2/11/2016	37.44	19.99	0.00	17.45	16.90	0.55	93	<0.50	<0.50	<0.50	<1.0	1.2	--	--	--	
MW-3	2/7/2012	33.18	18.88	0.00	14.30	14.88	-0.58	1,800	6.7	<1.0	1.9	<2.0	1,600	<0.50	<0.50	--	A01
MW-3	8/9/2012	33.18	18.02	0.00	15.16	14.30	0.86	1,400	1.8	<0.50	1.5	<1.0	370	<0.50	<0.50	<250	A01
MW-3	2/27/2013	33.18	18.36	0.00	14.82	15.16	-0.34	1,600	4.4	0.69	2.8	<1.0	820	<0.50	<0.50	<250	A01
MW-3	8/15/2013	35.88	19.17	0.00	16.71	14.82	1.89	410	4.0	<0.50	1.4	<1.0	340	<0.50	<0.50	<250	A01
MW-3	2/6/2014	35.88	19.96	0.00	15.92	16.71	-0.79	1,300	7.9	0.87	1.7	5.2	760	<0.50	<0.50	<250	A01
MW-3	8/14/2014	35.88	19.30	0.00	16.58	15.92	0.66	1,800	9.8	1.5	2.3	3.7	490	--	--	--	A01
MW-3	2/17/2015	35.88	18.88	0.00	17.00	16.58	0.42	1,900	6.7	2.2	2.2	3.2	60	--	--	--	A01, S09
MW-3	8/6/2015	35.88	19.73	0.00	16.15	17.00	-0.85	2,100	7.6	1.8	3.5	4.2	130	--	--	--	A01, S09
MW-3	2/11/2016	35.88	18.97	0.00	16.91	16.15	0.76	2500	9.3	1.9	3.1	3.7	54	--	--	--	0.00
MW-4	2/7/2012	32.72	18.38	0.00	14.34	14.87	-0.53	<50	<0.50	<0.50	<0.50	<1.0	1.5	<0.50	<0.50	--	
MW-4	8/9/2012	32.72	17.55	0.00	15.17	14.34	0.83	<50	<0.50	<0.50	<0.50	<1.0	1.3	<0.50	<0.50	<250	
MW-4	2/27/2013	32.72	17.83	0.00	14.89	15.17	-0.28	<50	<0.50	<0.50	<0.50	<1.0	1.1	<0.50	<0.50	<250	
MW-4	8/15/2013	35.42	18.70	0.00	16.72	14.89	1.83	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-4	2/6/2014	35.42	19.48	0.00	15.94	16.72	-0.78	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-4	8/14/2014	35.42	19.33	0.00	16.09	15.94	0.15	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-4	2/17/2015	35.42	18.40	0.00	17.02	16.09	0.93	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-4	8/6/2015	35.42	19.24	0.00	16.18	17.02	-0.84	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-4	2/11/2016	35.42	18.53	0.00	16.89	16.18	0.71	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-5	2/7/2012	32.98	18.59	0.00	14.39	14.93	-0.54	1,600	58	11	3.0	25	10	<0.50	<0.50	--	A01
MW-5	8/9/2012	32.98	17.73	0.00	15.25	14.39	0.86	1,900	81	18	10	22	19	<0.50	<0.50	<250	A01
MW-5	2/27/2013	32.98	17.98	0.00	15.00	15.25	-0.25	1,300	58	11	2.4	13	8.0	<0.50	<0.50	<250	
MW-5	8/15/2013	35.68	18.88	0.00	16.80	15.00	1.80	50	24	6.1	2.0	9.2	6.7	<0.50	<0.50	<250	
MW-5	2/6/2014	35.68	19.63	0.00	16.05	16.80	-0.75	1,400	13	7.4	2.3	13	1.8	<0.50	<0.50	<250	
MW-5	8/14/2014	35.68	19.48	0.00	16.20	16.05	0.15	1,300	7.2	5.8	2.2	10	1.0	--	--	--	A01
MW-5	2/17/2015	35.68	18.58	0.00	17.10	16.20	0.90	1,200	4.6	4.3	2.4	8.0	<0.50	--	--	--	
MW-5	8/6/2015	35.68	19.38	0.00	16.30	17.10	-0.80	890	4.6	3.2	1.2	5.5	1.7	--	--	--	
MW-5	2/11/2016	35.68	18.77	0.00	16.91	16.30	0.61	810	0.98	2.1	0.77	2.6	<0.50	--	--	--	

Table 2
Historical Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet)	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet AMSL)	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-6	2/7/2012	32.19	18.02	0.00	14.17	14.71	-0.54	450	<0.50	<0.50	<0.50	<1.0	29	<0.50	<0.50	--	
MW-6	8/9/2012	32.19	17.17	0.00	15.02	14.17	0.85	180	<0.50	<0.50	<0.50	<1.0	10	<0.50	<0.50	<250	
MW-6	2/27/2013	32.19	17.48	0.00	14.71	15.02	-0.31	77	<0.50	<0.50	<0.50	<1.0	2.4	<0.50	<0.50	<250	
MW-6	8/15/2013	34.89	18.35	0.00	16.54	14.71	1.83	<50	<0.50	<0.50	<0.50	<1.0	0.82	<0.50	<0.50	<250	
MW-6	2/6/2014	34.89	19.10	0.00	15.79	16.54	-0.75	150	<0.50	<0.50	<0.50	<1.0	0.81	<0.50	<0.50	<250	
MW-6	8/14/2014	34.89	18.93	0.00	15.96	15.79	0.17	150	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-6	2/17/2015	34.89	18.03	0.00	16.86	15.96	0.90	65	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-6	8/6/2015	34.89	18.85	0.00	16.04	16.86	-0.82	180	<0.50	<0.50	<0.50	<1.0	1.4	--	--	--	
MW-6	2/11/2016	34.89	18.14	0.00	16.75	16.04	0.71	240	<0.50	<0.50	<0.50	<1.0	0.7	--	--	--	
MW-7	2/7/2012	32.22	18.40	0.00	13.82	14.39	-0.57	310	25	2	<0.50	3.2	9.0	<0.50	<0.50	--	
MW-7	8/9/2012	32.22	17.53	0.00	14.69	13.82	0.87	280	11	1.2	<0.50	<1.0	24	<0.50	<0.50	<250	
MW-7	2/27/2013	32.22	17.85	0.00	14.37	14.69	-0.32	<50	<0.50	<0.50	<0.50	<1.0	3.8	<0.50	<0.50	<250	
MW-7	8/15/2013	34.92	18.70	0.00	16.22	14.37	1.85	95	11	1.3	<0.50	<1.0	5.0	<0.50	<0.50	<250	
MW-7	2/6/2014	34.92	19.45	0.00	15.47	16.22	-0.75	790	66	10	2.5	17	47	<0.50	<0.50	<250	A01
MW-7	8/14/2014	34.92	19.27	0.00	15.65	15.47	0.18	580	96	5.6	2.5	13	12	--	--	--	A01
MW-7	2/17/2015	34.92	18.25	0.00	16.67	15.65	1.02	350	36	2.8	2.1	1.2	10	--	--	--	
MW-7	8/6/2015	34.92	19.16	0.00	15.76	16.67	-0.91	330	31	2.8	0.72	3.6	14	--	--	--	
MW-7	2/11/2016	34.92	18.45	0.00	16.47	15.76	0.71	320	10	1.2	0.6	2.4	6.2	--	--	--	
MW-8	2/7/2012	32.03	18.15	0.00	13.88	14.50	-0.62	<50	<0.50	<0.50	<0.50	<1.0	0.75	<0.50	<0.50	--	
MW-8	8/9/2012	32.03	17.29	0.00	14.74	13.88	0.86	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-8	2/27/2013	32.03	17.58	0.00	14.45	14.74	-0.29	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-8	8/15/2013	34.73	18.46	0.00	16.27	14.45	1.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-8	2/6/2014	34.73	19.24	0.00	15.49	16.27	-0.78	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-8	8/14/2014	34.73	19.06	0.00	15.67	15.49	0.18	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-8	2/17/2015	34.73	18.04	0.00	16.69	15.67	1.02	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-8	8/6/2015	34.73	18.96	0.00	15.77	16.69	-0.92	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-8	2/11/2016	34.73	18.18	0.00	16.55	15.77	0.78	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
706 Harrison Street																	
MW-1	2/7/2012	29.17	17.33	0.00	11.84	15.22	-3.38	8,900	1,000	260	230	610	420	<0.50	<0.50	--	A01
MW-1	8/9/2012	29.17	16.58	0.00	12.59	11.84	0.75	2,200	850	110	42	120	84	<5.0	<5.0	<2,500	A01
MW-1	2/27/2013	29.17	17.03	0.00	12.14	12.59	-0.45	--	--	--	--	--	--	--	--	--	Parked Car
MW-1	8/15/2013	29.17	17.89	0.00	11.28	12.14	-0.86	5,800	840	100	93	160	790	<5.0	<5.0	<2,500	A01
MW-1	2/6/2014	29.17	--	0.00	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-1	8/14/2014	29.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Accident
MW-1	2/17/2015	29.17	17.30	0.00	11.87	--	--	550	260	3.7	7.0	4.1	15	--	--	--	A01
MW-1	8/6/2015	29.17	--	0.00	--	11.87	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-1	2/11/2016	29.17	17.37	0.00	11.80	--	--	250	86	3.6	5.6	8.8	9.4	--	--	--	
MW-2	2/7/2012	30.53	17.90	0.00	12.63	15.42	-2.79	36,000	1,100	3,600	990	4,200	1,600	<5.0	<5.0	--	A01
MW-2	8/9/2012	30.53	16.90	0.00	13.63	12.63	1.00	5,100	810	1,800	440	1,900	4,100	<5.0	<5.0	<25,000	A01
MW-2	2/27/2013	30.53	17.36	0.00	13.17	13.63	-0.46	45,000	1,700	2,500	1,200	4,900	2,700	<5.0	1.0	<250	A01
MW-2	8/15/2013	30.53	18.20	0.00	12.33	13.17	-0.84	1,500	1,200	5,600	820	4,400	1,700	<5.0	<5.0	<2,500	A01
MW-2	2/6/2014	30.53	20.20	0.00	10.33	12.33	-2.00	5,200	1,400	5,200	1,300	5,000	3,000	<0.50	<0.50	<250	A01
MW-2	8/14/2014	30.53	18.70	0.00	11.83	10.33	1.50	31,000	1,200	1,800	1,000	4,300	2,400	--	--	--	A01
MW-2	2/17/2015	30.53	17.66	0.00	12.87	11.83	1.04	28,000	1,200	4,600	1,300	5,600	1,900	--	--	--	A01
MW-2	8/6/2015	30.53	18.65	0.00	11.88	12.87	-0.99	37,000	1,900	6,700	1,900	8,700	3,800	--	--	--	A01
MW-2	2/11/2016	30.53	17.69	0.00	12.84	11.88	0.96	42,000	680	2,400	550	2,200	1,600	--	--	--	A01
MW-3	2/7/2012	29.79	17.23	0.00	12.56	14.88	-2.32	<50	<0.50	<0.50	<0.50	<1.0	110	<0.50	<0.50	--	A01
MW-3	8/9/2012	29.79	16.32	0.00	13.47	12.56	0.91	<50	<0.50	<0.50	<0.50	<1.0	0.80	<0.50	<0.50	<250	
MW-3	2/27/2013	29.79	16.75	0.00	13.04	13.47	-0.43	<50	<0.50	<0.50	<0.50	<1.0	1.2	<0.50	<0.50	<250	
MW-3	8/15/2013	29.79	17.60	0.00	12.19	13.04	-0.85	86	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-3	2/6/2014	29.79	18.36	0.00	11.43	12.19	-0.76	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-3	8/14/2014	29.79	18.07	0.00	11.72	11.43	0.29	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-3	2/17/2015	29.79	17.00	0.00	12.79	11.72	1.07	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-3	8/6/2015	29.79	18.03	0.00	11.76	12.79	-1.03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-3	2/11/2016	29.79	17.00	0.00	12.79	11.76	1.03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	

Table 2
Historical Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet)	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet AMSL)	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-4	2/7/2012	31.20	18.43	0.00	12.77	14.87	-2.10	1,800	140	15	21	32	430	<0.50	<0.50	--	A01
MW-4	8/9/2012	31.20	--	--	--	12.77	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-4	2/27/2013	31.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-4	8/15/2013	31.20	18.70	0.00	12.50	--	--	1,100	620	38	62	67	1,200	<2.5	<2.5	<1,200	A01
MW-4	2/6/2014	31.20	20.68	0.00	10.52	12.50	--	620	850	29	54	62	600	<0.50	<0.50	<250	A01
MW-4	8/14/2014	31.20	19.17	0.00	12.03	10.52	--	3,200	210	47	72	100	480	--	--	--	A01
MW-4	2/17/2015	31.20	--	--	--	12.03	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-4	8/6/2015	31.20	19.11	0.00	12.09	--	--	4,800	1900	94	67	110	1,200	--	--	--	A01,S09
MW-4	2/11/2016	31.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-5	2/7/2012	28.07	16.45	0.00	11.62	14.93	-3.31	<50	<0.50	<0.50	<0.50	1.6	190	<0.50	<0.50	--	A01
MW-5	8/9/2012	28.07	15.22	0.00	12.85	11.62	1.23	<50	<0.50	<0.50	<0.50	<1.0	13	<0.50	<0.50	<250	
MW-5	2/27/2013	28.07	15.68	0.00	12.39	12.85	-0.46	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-5	8/15/2013	28.07	16.55	0.00	11.52	12.39	-0.87	<50	<0.50	<0.50	<0.50	<1.0	0.72	<0.50	<0.50	<250	
MW-5	2/6/2014	28.07	17.37	0.00	10.70	11.52	-0.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-5	8/14/2014	28.07	17.01	0.00	11.06	10.70	0.36	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-5	2/17/2015	28.07	15.97	0.00	12.10	11.06	1.04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-5	8/6/2015	28.07	17.10	0.00	10.97	12.10	-1.13	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-5	2/11/2016	28.07	15.92	0.00	12.15	10.97	1.18	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-6	2/7/2012	29.13	17.51	0.00	11.62	14.71	-3.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-6	8/9/2012	29.13	16.41	0.00	12.72	11.62	1.10	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-6	2/27/2013	29.13	16.93	0.00	12.20	12.72	-0.52	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-6	8/15/2013	29.13	17.78	0.00	11.35	12.20	-0.85	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-6	2/6/2014	29.13	18.48	0.00	10.65	11.35	-0.70	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-6	8/14/2014	29.13	18.24	0.00	10.89	10.65	0.24	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	S05
MW-6	2/17/2015	29.13	17.22	0.00	11.91	10.89	1.02	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-6	8/6/2015	29.13	--	--	--	11.91	--	--	--	--	--	--	--	--	--	--	Paved Over
MW-6	2/11/2016	29.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
MW-7	2/7/2012	29.70	17.40	0.00	12.30	14.39	-2.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-7	8/9/2012	29.70	16.38	0.00	13.32	12.30	1.02	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	2/27/2013	29.70	16.83	0.00	12.87	13.32	-0.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	8/15/2013	29.70	17.67	0.00	12.03	12.87	-0.84	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	2/6/2014	29.70	18.42	0.00	11.28	12.03	-0.75	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	8/14/2014	29.70	18.15	0.00	11.55	11.28	0.27	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-7	2/17/2015	29.70	17.16	0.00	12.54	11.55	0.99	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-7	8/6/2015	29.70	18.11	0.00	11.59	12.54	-0.95	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-7	2/11/2016	29.70	17.27	0.00	12.43	11.59	0.84	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
SP-3	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-3	8/14/2014	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-3	2/17/2015	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-3	8/6/2015	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-3	2/11/2016	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate

Table 2
Historical Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet)	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet AMSL)	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
SP-4	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-4	8/14/2014	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-4	2/17/2015	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-4	8/6/2015	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-4	2/11/2016	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-5	8/14/2014	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-5	2/17/2015	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-5	8/6/2015	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-5	2/11/2016	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
726 Harrison Street																	
AS-1	8/15/2013	34.50	18.17	0.00	16.33	--	--	--	--	--	--	--	--	--	--	--	
AS-1	8/14/2014	34.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AS-1	2/17/2015	34.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AS-1	8/6/2015	34.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AS-1	2/11/2016	34.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-1	2/27/2013	*--	18.17	0.00	*--	--	--	960	180	6.0	3.6	12	170	<0.50	<0.50	<250	A01
EW-1	8/15/2013	34.37	18.98	0.00	15.39	--	--	290	67	1.7	1.3	3.3	57	<0.50	<0.50	<250	
EW-1	2/6/2014	34.37	19.69	0.00	14.68	15.39	-0.71	640	68	1.2	7.9	7.0	180	<0.50	<0.50	<250	A01
EW-1	8/14/2014	34.37	19.48	0.00	14.89	14.68	0.21	8,000	63	7.5	83	57.0	340	--	--	--	A01
EW-1	2/17/2015	34.37	18.45	0.00	15.92	14.89	1.03	1,200	27	3.3	5.0	5.2	180	--	--	--	A01
EW-1	8/6/2015	34.37	19.45	0.00	14.92	15.92	-1.00	1,900	180	8.2	58.0	41.0	590	--	--	--	A01
EW-1	2/11/2016	34.37	18.60	0.00	15.77	14.92	0.85	890	19	1.2	1.8	1.8	160	--	--	--	A01
MP-1	8/15/2013	34.16	19.03	0.00	15.13	--	--	<50	<0.50	<0.50	<0.50	<1.0	2.4	<0.50	<0.50	<250	
MP-1	2/6/2014	34.16	21.07	0.00	13.09	15.13	-2.04	<50	<0.50	<0.50	<0.50	<1.0	1.8	<0.50	<0.50	<250	
MP-1	8/14/2014	34.16	19.56	0.00	14.60	13.09	1.51	93	<0.50	<0.50	<0.50	<1.0	1.6	--	--	--	
MP-1	2/17/2015	34.16	--	--	--	14.60	--	--	--	--	--	--	--	--	--	--	Parked Car
MP-1	8/6/2015	34.16	19.49	0.00	14.67	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MP-1	2/11/2016	34.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MPE-1	8/15/2013	34.36	19.24	0.00	15.12	--	--	820	110	23	17	45	610	<0.50	<0.50	<250	A01
MPE-1	2/6/2014	34.36	20.00	0.00	14.36	15.12	-0.76	460	93	24	13	29	410	<0.50	<0.50	<250	A01
MPE-1	8/14/2014	34.36	19.78	0.00	14.58	14.36	0.22	150	24	1.7	3.2	5.5	470	--	--	--	A01
MPE-1	2/17/2015	34.36	18.70	0.00	15.66	14.58	1.08	4,400	540	30	87	89	3,400	--	--	--	A01
MPE-1	8/6/2015	34.36	19.72	0.00	14.64	15.66	-1.02	2,100	400	30	51	37	2,600	--	--	--	A01
MPE-1	2/11/2016	34.36	18.83	0.00	15.53	14.64	0.89	1,600	180	14	21	24	320	--	--	--	A01
MW-1	2/7/2012	31.98	18.77	0.00	13.21	15.22	-2.01	370	46	1.7	4.2	4.5	3,800	<0.50	<0.50	--	A01
MW-1	8/9/2012	31.98	17.82	0.00	14.16	13.21	0.95	6,600	760	27	58	60	6,700	<0.50	<0.50	--	A01
MW-1	2/27/2013	31.98	18.21	0.00	13.77	14.16	-0.39	3,000	480	26	52	56	2,600	<0.50	<0.50	<250	A01
MW-1	8/15/2013	34.45	19.03	0.00	15.42	13.77	1.65	7,200	820	50	65	99	7,300	<5.0	<5.0	<2,500	A01
MW-1	2/6/2014	34.45	19.87	0.00	14.58	15.42	-0.84	2,600	1,800	86	400	250	10,000	<0.50	<0.50	<250	A01
MW-1	8/14/2014	34.45	19.67	0.00	14.78	14.58	0.20	9,100	1,700	53	340	320	7,600	--	--	--	A01
MW-1	2/17/2015	34.45	17.84	0.00	16.61	14.78	1.83	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-1	8/6/2015	34.45	19.63	0.00	14.82	16.61	-1.79	14,000	2,600	100	370	340	6,600	--	--	--	
MW-1	2/11/2016	34.45	18.83	0.00	15.62	14.82	0.80	2,800	510	20	68	72	1,400	--	--	--	A01

Table 2
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76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet)	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet AMSL)	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-2	2/7/2012	32.44	19.52	0.00	12.92	15.42	-2.50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-2	8/9/2012	32.44	18.55	0.00	13.89	12.92	0.97	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-2	2/27/2013	32.44	18.95	0.00	13.49	13.89	-0.40	<50	<0.50	<0.50	<0.50	<1.0	1.7	<0.50	<0.50	<250	
MW-2	8/15/2013	34.91	19.77	0.00	15.14	13.49	1.65	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-2	2/6/2014	34.91	21.20	0.00	13.71	15.14	-1.43	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-2	8/14/2014	34.91	20.28	0.00	14.63	13.71	0.92	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-2	2/17/2015	34.91	19.15	0.00	15.76	14.63	1.13	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-2	8/6/2015	34.91	20.23	0.00	14.68	15.76	-1.08	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-2	2/11/2016	34.91	19.29	0.00	15.62	14.68	0.94	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-3	2/7/2012	31.64	18.71	0.00	12.93	14.88	-1.95	25	<0.50	<0.50	<0.50	<1.0	2.1	<0.50	<0.50	--	J
MW-3	8/9/2012	31.64	17.74	0.00	13.90	12.93	0.97	39	<0.50	<0.50	<0.50	<1.0	9.2	<0.50	<0.50	--	J
MW-3	2/27/2013	31.64	18.12	0.00	13.52	13.90	-0.38	<50	<0.50	<0.50	<0.50	<1.0	2.8	<0.50	<0.50	<250	
MW-3	8/15/2013	34.12	18.95	0.00	15.17	13.52	1.65	<50	<0.50	<0.50	<0.50	<1.0	1.1	<0.50	<0.50	<250	
MW-3	2/6/2014	34.12	19.70	0.00	14.42	15.17	-0.75	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-3	8/14/2014	34.12	19.48	0.00	14.64	14.42	0.22	<50	<0.50	<0.50	<0.50	<1.0	<0.05	--	--	--	
MW-3	2/17/2015	34.12	18.46	0.00	15.66	14.64	1.02	<50	<0.50	<0.50	<0.50	<1.0	1.3	--	--	--	
MW-3	8/6/2015	34.12	19.41	0.00	14.71	15.66	-0.95	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-3	2/11/2016	34.12	18.59	0.00	15.53	14.71	0.82	<50	<0.50	<0.50	<0.50	<1.0	0.70	--	--	--	
MW-4	2/7/2012	32.56	19.09	0.00	13.47	14.87	-1.40	210	<0.50	<0.50	<0.50	<1.0	17	<0.50	<0.50	--	
MW-4	8/9/2012	32.56	18.16	0.00	14.40	13.47	0.93	280	2	<0.50	<0.50	<1.0	21	<0.50	<0.50	--	
MW-4	2/27/2013	32.56	18.50	0.00	14.06	14.40	-0.34	170	1.8	<0.50	<0.50	<1.0	22	<0.50	<0.50	<250	
MW-4	8/15/2013	35.05	19.34	0.00	15.71	14.06	1.65	98	<0.50	<0.50	<0.50	<1.0	25	<0.50	<0.50	<250	
MW-4	2/6/2014	35.05	20.09	0.00	14.96	15.71	-0.75	<50	<0.50	<0.50	<0.50	<1.0	9.4	<0.50	<0.50	<250	
MW-4	8/14/2014	35.05	19.90	0.00	15.15	14.96	0.19	160	0.7	<0.50	<0.50	<1.0	9.4	--	--	--	
MW-4	2/17/2015	35.05	18.85	0.00	16.20	15.15	1.05	180	<0.50	<0.50	<0.50	<1.0	12	--	--	--	
MW-4	8/6/2015	35.05	19.81	0.00	15.24	16.20	-0.96	210	<0.50	<0.50	<0.50	<1.0	12	--	--	--	
MW-4	2/11/2016	35.05	18.83	0.00	16.22	12.09	4.13	170	0.59	<0.50	<0.50	<1.0	3	--	--	--	
MW-5	2/7/2012	32.06	19.16	0.00	12.90	14.93	-2.03	19,000	890	410	360	990	17,000	<6.2	<6.2	--	A01
MW-5	8/9/2012	32.06	18.24	0.00	13.82	12.90	0.92	16,000	1,400	580	470	960	16,000	<5.0	<5.0	--	A01
MW-5	2/27/2013	32.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-5	8/15/2013	34.76	19.40	0.00	15.36	--	--	8,000	1,900	590	390	1,100	20,000	<0.50	<0.50	<250	A01
MW-5	2/6/2014	34.76	21.45	0.00	13.31	15.36	-2.05	3,400	1,900	150	240	220	7,600	<0.50	<0.50	<250	A01
MW-5	8/14/2014	34.76	19.92	0.00	14.84	13.31	1.53	2,100	720	150	260	370	7,300	--	--	--	A01
MW-5	2/17/2015	34.76	18.92	0.00	15.84	14.84	1.00	16,000	1,600	360	390	950	5,300	--	--	--	A01
MW-5	8/6/2015	34.76	19.87	0.00	14.89	15.84	-0.95	9,500	2,700	380	500	900	3,800	--	--	--	A01
MW-5	2/11/2016	34.76	18.98	0.00	15.78	14.89	0.89	4,300	820	83	130	180	1,400	--	--	--	A01
MW-6	2/7/2012	32.04	26.53	0.00	5.51	14.71	-9.20	410	<0.50	<0.50	<0.50	<1.0	970	<0.50	0.79	--	A01
MW-6	8/9/2012	32.04	28.27	0.00	3.77	5.51	-1.74	830	<0.50	<0.50	<0.50	<1.0	970	<0.50	1.2	--	A01
MW-6	2/27/2013	32.04	26.48	0.00	5.56	3.77	1.79	<50	<0.50	<0.50	<0.50	<1.0	970	<0.50	0.70	<250	A01
MW-6	8/15/2013	34.53	28.85	0.00	5.68	5.56	0.12	58	<0.50	<0.50	<0.50	<1.0	1,000	<0.50	0.79	<250	A01
MW-6	2/6/2014	34.53	27.50	0.00	7.03	5.68	1.35	<50	<0.50	<0.50	<0.50	<1.0	1,100	<0.50	<0.50	<250	A01
MW-6	8/14/2014	34.53	27.92	0.00	6.61	7.03	-0.42	<50	<0.50	<0.50	<0.50	<1.0	900	--	--	--	A01
MW-6	2/17/2015	34.53	25.64	0.00	8.89	6.61	2.28	490	<0.50	<0.50	<0.50	<1.0	850	--	--	--	A01, A90
MW-6	8/6/2015	34.53	26.80	0.00	7.73	8.89	-1.16	340	<0.50	<0.50	<0.50	<1.0	300	--	--	--	A01
MW-6	2/11/2016	34.53	25.69	0.00	8.84	7.73	1.11	160	<0.50	<0.50	<0.50	<1.0	160	--	--	--	A01, A90

Table 2A
Historical Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Notes

Analytical results given in milligrams per liter.

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
A01	PQL's and MDL's are raised due to sample dilution
A10	PQL's and MDL's were raised due to matrix interference
S01	sample result is not within the quantitation range of the method

Analytes

CaCO3	calcium carbonate
NO3	nitrate
NO2	nitrogen dioxide
EDC	1,2-dichloroethane (same as ethylene dichloride)
PQL	practical quantitation limit
MDL	method detection limit

Table 2A
Historical Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Methane	Alkalinity as CaCO3	Nitrate as NO3	Nitrite as NO2	Sulfate	Non-Volatile Organic Carbon	Comments
800 Harrison Street								
MW-1	8/9/2012	0.026	69	1.9	<0.17	10	1.6	
MW-1	2/27/2013	0.0019	56	1.2	<0.17	9.0	0.87	
MW-1	8/15/2013	<0.0010	45	1.9	<0.17	12	0.75	
MW-1	2/6/2014	0.010	34	1.6	<0.17	7.9	1.1	
MW-1	8/14/2014	0.0035	37	2.0	<0.17	9.4	--	
MW-2	8/9/2012	0.076	190	19	0.38	130	1.4	
MW-2	2/27/2013	0.055	320	16	0.24	160	2.1	
MW-2	8/15/2013	<0.0010	68	10	<0.17	60	0.88	
MW-2	2/6/2014	0.014	110	6.4	<0.17	110	0.70	
MW-2	8/14/2014	0.0060	120	1.0	<0.17	79	--	
MW-3	8/9/2012	6.3	290	<0.44	<0.17	3.5	2.9	A01, S01
MW-3	2/27/2013	4.4	390	<0.44	<0.17	4.5	4	A01
MW-3	8/15/2013	1.6	230	<0.44	<0.17	11	3.7	A01
MW-3	2/6/2014	8.7	420	<0.44	<0.17	4.6	5.1	
MW-3	8/14/2014	17	450	0.55	<0.17	2.2	--	A01
MW-4	8/9/2012	0.031	98	4.3	<0.17	22	0.90	
MW-4	2/27/2013	0.0023	130	9.7	<0.17	25	0.89	
MW-4	8/15/2013	0.0017	68	2.2	<0.17	14	1.2	
MW-4	2/6/2014	0.0053	81	3.1	<0.17	17	1.3	
MW-4	8/14/2014	0.0016	84	4.4	<0.17	24	--	
MW-5	8/9/2012	2.9	140	<0.44	<0.17	2.5	1.7	A01
MW-5	2/27/2013	1.9	200	<0.44	<0.17	24	2.1	A01
MW-5	8/15/2013	0.0040	150	<0.44	<0.17	7.4	2.9	
MW-5	2/6/2014	3.3	190	<0.44	<0.17	<1.0	2.4	
MW-5	8/14/2014	0.79	170	<0.44	<0.17	<1.0	--	A01
MW-6	8/9/2012	0.18	130	<0.44	<0.17	16	1.0	A01
MW-6	2/27/2013	0.19	99	0.45	<0.17	13	0.75	
MW-6	8/15/2013	<0.0010	110	0.71	<0.17	13	2.0	
MW-6	2/6/2014	1.8	170	<0.44	<0.17	26	2.9	
MW-6	8/14/2014	<0.0010	140	<0.44	<0.17	25	--	
MW-7	8/9/2012	0.43	180	<0.44	<0.17	17	2.7	A01
MW-7	2/27/2013	0.13	140	<0.44	<0.17	38	1.1	
MW-7	8/15/2013	<0.0010	100	<0.44	<0.17	17	2.1	
MW-7	2/6/2014	1.3	74	<0.44	<0.17	4.3	1.8	
MW-7	8/14/2014	0.44	73	<0.44	<0.17	4.3	--	A01
MW-8	8/9/2012	0.0041	130	1.3	<0.17	37	1.6	
MW-8	2/27/2013	0.0027	190	<0.44	<0.17	49	2.7	
MW-8	8/15/2013	<0.0010	98	1.0	<0.17	17	1.9	
MW-8	2/6/2014	0.0035	180	<0.44	<0.17	20	1.5	
MW-8	8/14/2014	0.0059	200	<0.44	<0.17	28	--	

Table 2A
Historical Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Methane	Alkalinity as CaCO3	Nitrate as NO3	Nitrite as NO2	Sulfate	Non-Volatile Organic Carbon	Comments
706 Harrison Street								
MW-1	8/9/2012	0.28	250	<0.44	<0.17	51	7.3	A01
MW-1	2/27/2013	--	--	--	--	--	--	Parked Car
MW-1	8/15/2013	0.32	430	<0.44	<0.17	34	12	A01
MW-1	2/6/2014	--	--	--	--	--	--	Parked Car
MW-1	8/14/2014	--	--	--	--	--	--	Car Accident
MW-2	8/9/2012	6.8	500	<0.44	<0.17	<1.0	15	A01, S01
MW-2	2/27/2013	4.9	530	<0.44	<0.17	4.1	16	A01, A10
MW-2	8/15/2013	3.3	520	<0.44	<0.17	<1.0	24	A01
MW-2	2/6/2014	6.5	490	<0.44	<0.17	<1.0	20	A01
MW-2	8/14/2014	18.0	520	<0.44	<0.17	<1.0	--	A01
MW-3	8/9/2012	<0.0010	130	43	<0.17	61	1.4	
MW-3	2/27/2013	0.0029	130	39	<0.17	52	1.1	
MW-3	8/15/2013	0.0036	120	34	<0.17	44	1.4	
MW-3	2/6/2014	0.0072	110	33	<0.17	37	1.7	
MW-3	8/14/2014	0.0018	110	38	<0.17	42	--	
MW-4	8/9/2012	--	--	--	--	--	--	Parked Car
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-4	8/15/2013	0.45	510	<0.44	<0.17	4.0	15	A01
MW-4	2/6/2014	2.1	440	<0.44	<0.17	9.8	12	A01
MW-4	8/14/2014	1.6	480	<0.44	<0.17	3.8	--	
MW-5	8/9/2012	<0.0010	150	19	<0.17	49	2.0	
MW-5	2/27/2013	0.0026	150	17	<0.17	46	2.1	
MW-5	8/15/2013	0.0010	150	19	<0.17	51	2.6	
MW-5	2/6/2014	0.0023	160	15	<0.17	51	2.8	
MW-5	8/14/2014	0.0010	160	16	<0.17	55	--	
MW-6	8/9/2012	0.0082	140	<0.44	<0.17	27	1.9	
MW-6	2/27/2013	0.0019	190	<0.44	<0.17	60	2.4	
MW-6	8/15/2013	<0.0010	180	<0.44	<0.17	62	3.4	
MW-6	2/6/2014	0.0017	150	<0.44	<0.17	38	2.7	
MW-6	8/14/2014	<0.0010	150	<0.44	<0.17	36	--	
MW-7	8/9/2012	0.0045	230	<0.44	<0.17	49	3.0	
MW-7	2/27/2013	0.0012	260	<0.44	<0.17	56	3.4	
MW-7	8/15/2013	<0.0010	250	<0.44	<0.17	58	4.4	
MW-7	2/6/2014	0.030	220	<0.44	<0.17	38	3.6	
MW-7	8/14/2014	0.023	230	<0.44	<0.17	48	--	
SP-3	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-3	8/14/2014	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-4	8/14/2014	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-5	8/14/2014	--	--	--	--	--	--	Unable to Locate

Table 2A
Historical Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Methane	Alkalinity as CaCO3	Nitrate as NO3	Nitrite as NO2	Sulfate	Non-Volatile Organic Carbon	Comments
726 Harrison Street								
AS-1	8/15/2013	--	--	--	--	--	--	
AS-1	8/14/2014	--	--	--	--	--	--	
EW-1	2/27/2013	0.91	210	0.5	<0.17	10	3.2	A01
EW-1	8/15/2013	<0.0010	150	1.1	<0.17	13	2.5	
EW-1	2/6/2014	1.2 A01	230	<0.44	<0.17	12	5.0	
EW-1	8/14/2014	0.57	220	<0.44	<0.17	2.8	--	A01
MP-1	8/15/2013	0.51	230	<0.44	<0.17	14	6.4	
MP-1	8/14/2014	--	--	--	--	--	--	
MPE-1	8/15/2013	<0.0010	82	66	<0.17	27	1.1	
MPE-1	8/14/2014	--	--	--	--	--	--	
MW-1	8/9/2012	--	--	--	--	--	--	
MW-1	2/27/2013	0.51	230	<0.44	<0.17	14	6.4	
MW-1	8/15/2013	1.7	430	<0.44	<0.17	<1.0	29	A01
MW-1	2/6/2014	6.3	370	<0.44	<0.17	<1.0	33	A01
MW-1	8/14/2014	2.0	380	<0.44	<0.17	<1.0	--	A01
MW-2	8/9/2012	--	--	--	--	--	--	
MW-2	2/27/2013	<0.0010	82	66	<0.17	27	1.1	
MW-2	8/15/2013	0.0021	97	62	<0.17	32	2.6	
MW-2	2/6/2014	0.0058	150	38	<0.17	38	1.9	
MW-2	8/14/2014	0.0016	130	47	<0.17	41	--	
MW-3	8/9/2012	--	--	--	--	--	--	
MW-3	2/27/2013	0.0012	160	<0.44	<0.17	22	2.0	
MW-3	8/15/2013	<0.0010	160	<0.44	<0.17	19	1.9	
MW-3	2/6/2014	0.0062	140	<0.44	<0.17	18	1.7	
MW-3	8/14/2014	<0.0010	140	<0.44	<0.17	13	--	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	0.32	400	<0.44	<0.17	13	4.8	
MW-4	8/15/2013	<0.0010	290	<0.44	<0.17	15	3.9	
MW-4	2/6/2014	2.4	310	<0.44	<0.17	17	4.0	
MW-4	8/14/2014	0.21	300	<0.44	<0.17	17	--	A01
MW-5	8/9/2012	--	--	--	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car
MW-5	8/15/2013	2.2	670	<0.44	<0.17	<1.0	28	A01
MW-5	2/6/2014	11	430	<0.44	<0.17	<1.0	11	A01
MW-5	8/14/2014	1.7	440	<0.44	<0.17	<1.0	--	A01
MW-6	8/9/2012	--	--	--	--	--	--	
MW-6	2/27/2013	0.0033	170	6.2	<0.17	25	0.70	
MW-6	8/15/2013	0.0051	180	6.3	<0.17	26	7.4	A01
MW-6	2/6/2014	0.0019	170	3.9	<0.17	24	0.91	
MW-6	8/14/2014	0.0015	170	4.3	<0.17	26	--	

Table 2A
Historical Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Notes

Analytical results given in milligrams per liter.

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
A01	PQL's and MDL's are raised due to sample dilution
A10	PQL's and MDL's were raised due to matrix interference
S01	sample result is not within the quantitation range of the method

Analytes

CaCO3	calcium carbonate
NO3	nitrate
NO2	nitrogen dioxide
EDC	1,2-dichloroethane (same as ethylene dichloride)
PQL	practical quantitation limit
MDL	method detection limit

Table 2B
Historical Additional Groundwater Analytical Results - Metals
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Iron	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
800 Harrison Street								
MW-1	2/7/2012	<10	<10	--	<50	<10	<10	
MW-1	8/9/2012	<10	<10	<50	<50	<10	<10	
MW-1	2/27/2013	<10	<10	<50	<50	<10	<10	
MW-1	8/15/2013	<10	<10	52	<50	<10	<10	
MW-1	2/6/2014	<10	<10	56	<50	<10	14	
MW-1	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-2	2/7/2012	--	--	--	--	--	--	
MW-2	8/9/2012	--	--	2,200	--	--	--	
MW-2	2/27/2013	--	--	56	--	--	--	
MW-2	8/15/2013	--	--	<50	--	--	--	
MW-2	2/6/2014	--	--	<50	--	--	--	
MW-2	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-3	2/7/2012	--	--	--	--	--	--	
MW-3	8/9/2012	--	--	5,700	--	--	--	
MW-3	2/27/2013	--	--	8,400	--	--	--	
MW-3	8/15/2013	--	--	4,200	--	--	--	
MW-3	2/6/2014	--	--	2,600	--	--	--	
MW-3	8/14/2014	<10	<10	810	<50	<10	<10	
MW-4	2/7/2012	--	--	--	--	--	--	
MW-4	8/9/2012	--	--	<50	--	--	--	
MW-4	2/27/2013	--	--	<50	--	--	--	
MW-4	8/15/2013	--	--	61	--	--	--	
MW-4	2/6/2014	--	--	480	--	--	--	
MW-4	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-5	2/7/2012	--	--	--	--	--	--	
MW-5	8/9/2012	--	--	860	--	--	--	
MW-5	2/27/2013	--	--	860	--	--	--	
MW-5	8/15/2013	--	--	580	--	--	--	
MW-5	2/6/2014	--	--	410	--	--	--	
MW-5	8/14/2014	<10	<10	160	<50	<10	<10	
MW-6	2/7/2012	--	--	--	--	--	--	
MW-6	8/9/2012	--	--	160	--	--	--	
MW-6	2/27/2013	--	--	<50	--	--	--	
MW-6	8/15/2013	--	--	100	--	--	--	
MW-6	2/6/2014	--	--	110	--	--	--	
MW-6	8/14/2014	<10	<10	<50	<50	<10	<10	

Table 2B
Historical Additional Groundwater Analytical Results - Metals
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Iron	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
MW-7	2/7/2012	--	--	--	--	--	--	
MW-7	8/9/2012	--	--	670	--	--	--	
MW-7	2/27/2013	--	--	1,000	--	--	--	
MW-7	8/15/2013	--	--	260	--	--	--	
MW-7	2/6/2014	--	--	480	--	--	--	
MW-7	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-8	2/7/2012	--	--	--	--	--	--	
MW-8	8/9/2012	--	--	680	--	--	--	
MW-8	2/27/2013	--	--	1,400	--	--	--	
MW-8	8/15/2013	--	--	71	--	--	--	
MW-8	2/6/2014	--	--	130	--	--	--	
MW-8	8/14/2014	<10	<10	<50	<50	<10	<10	
706 Harrison Street								
MW-1	8/9/2012	--	--	830	--	--	--	
MW-1	2/27/2013	--	--	--	--	--	--	Parked Car
MW-1	8/15/2013	--	--	3,100	--	--	--	
MW-1	2/6/2014	--	--	--	--	--	--	Parked Car
MW-1	8/14/2014	--	--	--	--	--	--	
MW-2	8/9/2012	--	--	6,900	--	--	--	
MW-2	2/27/2013	--	--	9,500	--	--	--	
MW-2	8/15/2013	--	--	7,800	--	--	--	
MW-2	2/6/2014	--	--	4,600	--	--	--	
MW-2	8/14/2014	<10	<10	3,600	<50	<10	<10	
MW-3	8/9/2012	--	--	<50	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-3	8/15/2013	--	--	<50	--	--	--	
MW-3	2/6/2014	--	--	<50	--	--	--	
MW-3	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-4	8/15/2013	--	--	3,300	--	--	--	
MW-4	2/6/2014	--	--	340	--	--	--	
MW-4	8/14/2014	<10	<10	180	<50	<10	<10	
MW-5	8/9/2012	--	--	<50	--	--	--	
MW-5	2/27/2013	--	--	<50	--	--	--	
MW-5	8/15/2013	--	--	<50	--	--	--	
MW-5	2/6/2014	--	--	<50	--	--	--	
MW-5	8/14/2014	<10	<10	<50	<50	<10	<10	

Table 2B
Historical Additional Groundwater Analytical Results - Metals
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Iron	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
MW-6	8/9/2012	--	--	<50	--	--	--	
MW-6	2/27/2013	--	--	94	--	--	--	
MW-6	8/15/2013	--	--	120	--	--	--	
MW-6	2/6/2014	--	--	75	--	--	--	
MW-6	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-7	8/9/2012	--	--	860	--	--	--	
MW-7	2/27/2013	--	--	2,600	--	--	--	
MW-7	8/15/2013	--	--	340	--	--	--	
MW-7	2/6/2014	--	--	760	--	--	--	
MW-7	8/14/2014	<10	<10	1,200	<50	<10	<10	
SP-3	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-3	8/14/2014	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-4	8/14/2014	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-5	8/14/2014	--	--	--	--	--	--	Unable to Locate
726 Harrison Street								
AS-1	8/15/2013	--	--	--	--	--	--	
AS-1	8/14/2014	--	--	--	--	--	--	
EW-1	2/27/2013	--	--	3,100	--	--	--	
EW-1	8/15/2013	--	--	1,300	--	--	--	
EW-1	2/6/2014	--	--	1,700	--	--	--	
EW-1	8/14/2014	<10	<10	2,600	<50	<10	<10	
MP-1	8/15/2013	--	--	3,500	--	--	--	
MP-1	8/14/2014	<10	<10	--	<50	<10	<10	
MPE-1	8/15/2013	--	--	<50	--	--	--	
MPE-1	8/14/2014	<10	<10	--	<50	<10	<10	
MW-1	8/9/2012	--	--	--	--	--	--	
MW-1	2/27/2013	--	--	2,000	--	--	--	
MW-1	8/15/2013	--	--	3,500	--	--	--	
MW-1	2/6/2014	--	--	950	--	--	--	
MW-1	8/14/2014	<10	<10	1,900	<50	<10	<10	

Table 2B
Historical Additional Groundwater Analytical Results - Metals
76 Station 0752/YEE/GIN Comingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Iron	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
MW-2	8/9/2012	--	--	--	--	--	--	
MW-2	2/27/2013	--	--	<50	--	--	--	
MW-2	8/15/2013	--	--	<50	--	--	--	
MW-2	2/6/2014	--	--	<50	--	--	--	
MW-2	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-3	8/9/2012	--	--	--	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-3	8/15/2013	--	--	110	--	--	--	
MW-3	2/6/2014	--	--	<50	--	--	--	
MW-3	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	4,300	--	--	--	
MW-4	8/15/2013	--	--	1,300	--	--	--	
MW-4	2/6/2014	--	--	<50	--	--	--	
MW-4	8/14/2014	<10	<10	380	<50	<10	<10	
MW-5	8/9/2012	--	--	--	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car
MW-5	8/15/2013	--	--	7,300	--	--	--	
MW-5	2/6/2014	--	--	4,200	--	--	--	
MW-5	8/14/2014	<10	<10	1,200	<50	<10	<10	
MW-6	8/9/2012	--	--	--	--	--	--	
MW-6	2/27/2013	--	--	<50	--	--	--	
MW-6	8/15/2013	--	--	<50	--	--	--	
MW-6	2/6/2014	--	--	<50	--	--	--	
MW-6	8/14/2014	<10	<10	<50	<50	<10	<10	

Notes

Analytical results given in micrograms per liter.

Attachment A

Field Data Sheets and General Procedures



GETTLER-RYAN INC.



TRANSMITTAL

February 19, 2016
G-R #385647

TO: Ms. Tamera Rogers
Arcadis
6296 San Ignacio Ave, Suite C & D
San Jose, CA 95119

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

RE: Chevron Facility
#351646/0752
800 Harrison Street
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package First Semi-Annual Event of February 11, 2016

COMMENTS:

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

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

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

trans/351646 0752

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #351646 / 0752

Site Address: 800 Harrison Street

City: Oakland, CA

Job #: 385647

Event Date: 2/11/16

Sampler: AW

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	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
A-MW-1	OK										
A-MW-2	OK							N	N	metson / 8" 1/2	N
A-MW-3	OK							N	N	BL / 8" 1/3	
A-MW-4				UTA						Brainard / 8" 1/3	↓
SP-3					UTL					Brainard / 8" 1/3	Y
SP-4					UTL						N
SP-5					UTL						↓
S-MW-2	OK							N	N	metson / 8" 1/2	↓
MPIZ-1	OK							N	N	Temco / 12" 1/2	↓

Comments _____

WELL CONDITION STATUS SHEET

Client/
 Facility #: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job #: 385647
 Event Date: 2/11/16
 Sampler: G. Medina

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-7	OK	→	→	S(3)	OK	→	→	NO	NO	B. KILLMANS / 3 / 3	
MW-8	OK	→	→	B(1)	OK	→	→			EMCO / 12 / 2	
S-MW-3	OK	→	→	S(2)	OK	→	→			MORRISON / 3 / 2	
S-MW-5	OK	→	→			→	→			↓ 12 ↓	
S-MW-6	OK	→	→			→	→			↓ 12 ↓	
MP-1	UNABLE TO ACCESS	→	→			→	→			EMCO / 12 / 2	Y
Comments											

WELL CONDITION STATUS SHEET

Client/ Facility #: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job #: 385647
 Event Date: 2-11-16
 Sampler: FR

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	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										
MW-2	OK		→	S22	OK					EMCO/12"12	
MW-3	OK									UNIVERSAL/8"12	
MW-4	OK									EMCO/12"12	
MW-5	OK									" " "	
MW-6	OK		→	S23	OK					" " "	
										" " "	
										Bottom L-18"13	
Comments											

WELL CONDITION STATUS SHEET

Client/
 Facility #: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job #: 385647
 Event Date: 2-11-16
 Sampler: JH

WELL ID	Vault Frame Condition	Gasket/O-Ring <small>(M) Missing (R) Replaced</small>	Bolts <small>(M) Missing (R) Replaced</small>	Bolt Flanges <small>B=Broken S=Stripped R=Retaped</small>	Apron Condition <small>C=Cracked B=Broken G=Gone</small>	Grout Seal <small>(Deficient) Inches from TOC</small>	Casing <small>(Condition prevents tight cap seal)</small>	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT <small>Manufacture/Size/ # of Bolts</small>	Pictures Taken Y/N
SMW-1	ok	—	—	—	—	—	—			8" MORAN	
SEW-1	ok	—	—	—	—	—	—			12" MORRIS	
SMW-4	ok	—	—	—	—	—	—			8" MORRIS	
A-MW-6	—	—	—	—	—	—	—			UTL / UTA P/O	
A-MW-5	ok	N/A	—	—	ok	—	—			CHRISTY	
A-MW-7	ok	N/A	—	—	ok	—	—				

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2.11.16 (inclusive)
 Sampler: FT

Well ID: MW-1
 Well Diameter: 1 1/2" / 4" / 6" in.
 Total Depth: 33.44 ft.
 Depth to Water: 20.18 ft.

Date Monitored: 2.11.16

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.93
 $13.26 \times VF .17 = 2.25 \times 3 \text{ case volume} = \text{Estimated Purge Volume: } 7.0 \text{ gal.}$

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0550
 Sample Time/Date: 0616 / 2.11.16
 Approx. Flow Rate: — gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: CLOUDY
 Water Color: CLEAN Odor: ① / N SLIGHT
 Sediment Description: NONE
 DTW @ Sampling: 20.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0555	2.5	6.63	335	19.7	PRE: 1.5	PRE: -45	PRE: 93
0600	5.0	6.67	342	20.1			
0606	7.0	6.70	349	20.5			
					POST: 1.6	POST: -53	POST: 107

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

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 #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2.11.16 (inclusive)
 City: Oakland, CA Sampler: FR

Well ID: MW-2 Date Monitored: 2.11.16
 Well Diameter: 1 1/4 / 1 1/2 in.
 Total Depth: 30.73 ft.
 Depth to Water: 19.99 ft. Check if water column is less than 0.50 ft.
10.74 xVF .17 = 1.82 x3 case volume = Estimated Purge Volume: 5.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.13

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

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0515 Weather Conditions: CLOUDY
 Sample Time/Date: 0535 / 2.11.16 Water Color: CLEAR Odor: D/N SLIGHT
 Approx. Flow Rate: _____ gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0518</u>	<u>1.5</u>	<u>6.81</u>	<u>224</u>	<u>18.5</u>	<u>PRE: 1.7</u>	<u>PRE: 85</u>	<u>PRE: 121</u>
<u>0521</u>	<u>3.0</u>	<u>6.83</u>	<u>229</u>	<u>18.8</u>			
<u>0525</u>	<u>5.0</u>	<u>6.85</u>	<u>234</u>	<u>19.0</u>	<u>POST: 1.6</u>	<u>POST: 92</u>	<u>POST: 135</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2.11.16 (inclusive)
 Sampler: FT

Well ID: MW-3
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: 30.45 ft.
 Depth to Water: 18.97 ft.
11.48 xVF .17 = 1.95

Date Monitored: 2.11.16

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.26

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0835
 Sample Time/Date: 0900 / 2.11.16
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Cloudy / Sunny
 Water Color: LT. grey Odor: ⊕ / N MODERATE
 Sediment Description: S-SILTY
 DTW @ Sampling: 19.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0839</u>	<u>2.0</u>	<u>6.46</u>	<u>351</u>	<u>20.3</u>	<u>PRE: 1.6</u>	<u>PRE: -85</u>	<u>PRE: 195</u>
<u>0843</u>	<u>4.0</u>	<u>6.49</u>	<u>358</u>	<u>20.7</u>			
<u>0847</u>	<u>6.0</u>	<u>6.52</u>	<u>364</u>	<u>21.0</u>			
					<u>POST: 1.4</u>	<u>POST: -93</u>	<u>POST: 221</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2-11-16 (inclusive)
 City: Oakland, CA Sampler: FR

Well ID: MW-4 Date Monitored: 2-11-16
 Well Diameter: 1 1/4 / 1 1/2 in.
 Total Depth: 32.01 ft.
 Depth to Water: 18.53 ft. Check if water column is less than 0.50 ft.
13.48 xVF .17 = 2.29 x3 case volume = Estimated Purge Volume: 7.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.22

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

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0715 Weather Conditions: CLOUDY
 Sample Time/Date: 0741 / 2-11-16 Water Color: Bur. Odor: Y / (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: S. SILTY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0720</u>	<u>2.5</u>	<u>6.42</u>	<u>362</u>	<u>20.9</u>	PRE: <u>2.1</u>	PRE: <u>80</u>	PRE: <u>215</u>
<u>0725</u>	<u>5.0</u>	<u>6.44</u>	<u>370</u>	<u>21.2</u>			
<u>0731</u>	<u>7.0</u>	<u>6.47</u>	<u>379</u>	<u>21.6</u>	POST: <u>1.9</u>	POST: <u>93</u>	POST: <u>231</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3</u> x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2.11.16 (inclusive)
 Sampler: FR

Well ID: MW-5
 Well Diameter: 1 1/4 / 1 1/2 in.
 Total Depth: 31.55 ft.
 Depth to Water: 18.77 ft.
12.78 xVF .17 = 2.17

Date Monitored: 2.11.16

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.32

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0632
 Sample Time/Date: 0700 / 2.11.16
 Approx. Flow Rate: gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: CLOUDY
 Water Color: 6.0 Odor: Y/N MODERATE
 Sediment Description: S. SILTY
 DTW @ Sampling: 19.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°/F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0637</u>	<u>2.5</u>	<u>6.39</u>	<u>302</u>	<u>21.0</u>	<u>PRE: 1.4</u>	<u>PRE: -62</u>	<u>PRE: 225</u>
<u>0642</u>	<u>5.0</u>	<u>6.41</u>	<u>312</u>	<u>21.5</u>	_____	_____	_____
<u>0648</u>	<u>7.0</u>	<u>6.43</u>	<u>320</u>	<u>21.8</u>	<u>POST: 1.2</u>	<u>POST: -71</u>	<u>POST: 236</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2-11-16 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-6 Date Monitored: 2-11-16
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: 30.84 ft.
 Depth to Water: 18.14 ft. Check if water column is less than 0.50 ft.
12.70 xVF .17 = 2.15 x3 case volume = Estimated Purge Volume: 6.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.68

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

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0756 Weather Conditions: Cloudy / Windy
 Sample Time/Date: 0818 / 2-11-16 Water Color: gray Odor: Y / (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: S-Silty
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0800</u>	<u>1.0</u>	<u>6.61</u>	<u>237</u>	<u>20.9</u>	<u>PRE: 1.9</u>	<u>PRE: 135</u>	<u>PRE: 251</u>
<u>0804</u>	<u>4.0</u>	<u>6.65</u>	<u>243</u>	<u>21.3</u>			
<u>0808</u>	<u>6.0</u>	<u>6.68</u>	<u>251</u>	<u>21.7</u>	<u>POST: 1.8</u>	<u>POST: 144</u>	<u>POST: 276</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: GM

Well ID: MW-7 Date Monitored: 2/11/16
 Well Diameter: 1 1/2 in. Volume 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
Factor (VF) 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80
 Total Depth: 31.35 ft.
 Depth to Water: 18.45 ft. Check if water column is less than 0.50 ft.
12.90 xVF 0.17 = 2.19 x3 case volume = Estimated Purge Volume: 7 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.03

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer X
 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: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0455 Weather Conditions: CLEAR
 Sample Time/Date: 0540 12/11/16 Water Color: CLW w/ Odor (YDN) MODERATE
 Approx. Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.14

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0500</u>	<u>2.5</u>	<u>7.20</u>	<u>314</u>	<u>15.1</u>	<u>PRE: 2.0</u>	<u>PRE: -39</u>	<u>PRE: 118</u>
<u>0506</u>	<u>5</u>	<u>7.17</u>	<u>311</u>	<u>14.9</u>			
<u>0514</u>	<u>7</u>	<u>7.15</u>	<u>310</u>	<u>14.8</u>	<u>POST: 2.3</u>	<u>POST: -31</u>	<u>POST: 269</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: GM

Well ID: MW-8
 Well Diameter: 1 1/4 in.
 Total Depth: 26.33 ft.
 Depth to Water: 18.18 ft.
8.15 xVF 0.17 = 1.38

Date Monitored: 2/11/16

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.81

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0555
 Sample Time/Date: 0630 / 2/11/16
 Approx. Flow Rate: - gpm.
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

Weather Conditions: CLEAR
 Water Color: CLON/OY Odor: YN STRONG
 Sediment Description: SILT
 DTW @ Sampling: 18.69

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0558</u>	<u>1.5</u>	<u>7.09</u>	<u>519</u>	<u>15.1</u>	<u>PRE: 1.9</u>	<u>PRE: -51</u>	<u>PRE: 112</u>
<u>0601</u>	<u>3</u>	<u>7.04</u>	<u>515</u>	<u>14.9</u>	_____	_____	_____
<u>0606</u>	<u>4.5</u>	<u>6.99</u>	<u>512</u>	<u>14.7</u>	<u>POST: 2.4</u>	<u>POST: -42</u>	<u>POST: 247</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: Aw

Well ID: A-MW-1
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: 2440 ft.
 Depth to Water: 17.37 ft.

Date Monitored: 2-11-16

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.77
 xVF 0.17 = 1.19 x3 case volume = Estimated Purge Volume: 4.0 gal.

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0500
 Sample Time/Date: 0525 / 2-11-16
 Approx. Flow Rate: - gpm.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Dark
 Water Color: Cloudy Odor: DN Slight
 Sediment Description: cloudy
 DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0505</u>	<u>1.5</u>	<u>7.88</u>	<u>442</u>	<u>17.8</u>	PRE: <u>1.2</u>	PRE: <u>143</u>	PRE: <u>359</u>
<u>0510</u>	<u>3.0</u>	<u>7.82</u>	<u>450</u>	<u>18.2</u>			
<u>0515</u>	<u>4.0</u>	<u>7.78</u>	<u>461</u>	<u>18.4</u>	POST: <u>1.1</u>	POST: <u>120</u>	POST: <u>404</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>A-MW-1</u>	<u>3</u> x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

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 #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2-11-16 (inclusive)
 City: Oakland, CA Sampler: BW

Well ID: A-MW-2 Date Monitored: 2-11-16
 Well Diameter: 1 1/2" / 4 / 6 in.
 Total Depth: 24.86 ft.
 Depth to Water: 17.69 ft. Check if water column is less than 0.50 ft.
7.17 xVF .17 = 1.21 x3 case volume = Estimated Purge Volume: 4.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.12

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

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0615 Weather Conditions: Dawn
 Sample Time/Date: 0640 / 2-11-16 Water Color: Cloudy Odor: (N) Slight
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.79

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (°F / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0620</u>	<u>1.5</u>	<u>6.61</u>	<u>538</u>	<u>19.8</u>	<u>PRE: 1.3</u>	<u>PRE: 133</u>	<u>PRE: 446</u>
<u>0625</u>	<u>3.0</u>	<u>6.69</u>	<u>566</u>	<u>20.1</u>			
<u>0630</u>	<u>4.0</u>	<u>6.75</u>	<u>604</u>	<u>20.3</u>	<u>POST: 1.2</u>	<u>POST: 174</u>	<u>POST: 519</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>A-MW-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: pw

Well ID: A-MW-3
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: 27.27 ft.
 Depth to Water: 17.00 ft.

Date Monitored: 2-11-16

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

Depth to Water: 10.27 xVF .17 = 1.74 x3 case volume = Estimated Purge Volume: 5.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.05

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0540 Weather Conditions: Dark
 Sample Time/Date: 0605 / 2-11-16 Water Color: Cloudy Odor: Y
 Approx. Flow Rate: - gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW@ Sampling: 18.85

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0545</u>	<u>2.0</u>	<u>6.95</u>	<u>284</u>	<u>19.1</u>	<u>PRE: 1.4</u>	<u>PRE: 139</u>	<u>PRE: 279</u>
<u>0550</u>	<u>4.0</u>	<u>7.02</u>	<u>315</u>	<u>19.3</u>			
<u>0555</u>	<u>5.5</u>	<u>7.09</u>	<u>355</u>	<u>19.5</u>			
					<u>POST: 1.2</u>	<u>POST: 166</u>	<u>POST: 316</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>A-MW-3</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: BW

Well ID: A-MW-4
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: _____ ft.
 Depth to Water: _____ ft.

Date Monitored: _____

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

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

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

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
_____	_____	_____	_____	_____	PRE: _____	PRE: _____	PRE: _____
_____	_____	_____	_____	_____	POST: _____	POST: _____	POST: _____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

COMMENTS: Unable to access, well parked over, unable to locate owner.

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2/11/16 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: A-MW-5 Date Monitored: 2/11/16
 Well Diameter: 10 1/4 in. Volume Factor (VF) table:
 Total Depth: 28.16 ft.

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

 Depth to Water: 15.92 ft. Check if water column is less than 0.50 ft.
12.24 xVF .17 = 2.08 x3 case volume = Estimated Purge Volume: 6.24 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.36

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

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

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

Start Time (purge): 0500 Weather Conditions: DARK
 Sample Time/Date: 0540 / 2/11/16 Water Color: Cloudy Odor: Y 1 (M)
 Approx. Flow Rate: _____ gpm. Sediment Description: L.S.W
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS w/100/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)	TURBIDITY <u>NTU</u>
<u>0506</u>	<u>2</u>	<u>7.63</u>	<u>719</u>	<u>20.3</u>	<u>PRE: 1.3</u>	<u>PRE: 58</u>	<u>PRE: 67.4</u>
<u>0512</u>	<u>4</u>	<u>7.51</u>	<u>704</u>	<u>20.1</u>			
<u>0518</u>	<u>6.5</u>	<u>7.38</u>	<u>688</u>	<u>20.0</u>	<u>POST: 1.1</u>	<u>POST: 37</u>	<u>POST: 91.7</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>A-MW-5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: JH

Well ID A-MW-6
 Well Diameter 1 1/2 in.
 Total Depth 25.83 ft.
 Depth to Water _____ ft.

Date Monitored: 2/11/16

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

Check if water column is less than 0.50 ft.

_____ xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

COMMENTS: Well still paved over - UTA



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2/11/16 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: A-MW-7 Date Monitored: 2/11/16
 Well Diameter: 11 1/2 4/6 in.
 Total Depth: 27.60 ft.
 Depth to Water: 17.27 ft. Check if water column is less than 0.50 ft.
10.33 xVF .17 = 1.75 x3 case volume = Estimated Purge Volume: 5.26 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.33

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

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

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

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

Start Time (purge): 0600 Weather Conditions: DARK
 Sample Time/Date: 0645 / 2/11/16 Water Color: cloudy Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: L.M.V.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS cmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY <u>NTU</u>
<u>0605</u>	<u>2</u>	<u>7.05</u>	<u>599</u>	<u>20.2</u>	PRE: <u>1.5</u>	PRE: <u>27</u>	PRE: <u>53.7</u>
<u>0610</u>	<u>4</u>	<u>6.93</u>	<u>582</u>	<u>19.9</u>			
<u>0615</u>	<u>5.5</u>	<u>6.81</u>	<u>573</u>	<u>19.6</u>	POST: <u>1.2</u>	POST: <u>51</u>	POST: <u>94.1</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>A-MW-7</u>	<u>3</u> x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: AW

Well ID: SP-3
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: _____ ft.
 Depth to Water: _____ ft.

Date Monitored: _____

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

Check if water column is less than 0.50 ft.

_____ xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N _____
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
_____	_____	_____	_____	_____	PRE: _____	PRE: _____	PRE: _____
_____	_____	_____	_____	_____	POST: _____	POST: _____	POST: _____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

COMMENTS: UTL - Paved over

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2-11-16 (inclusive)
 Sampler: BW

Well ID: SP-4
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: _____ ft.
 Depth to Water: _____ ft.

Date Monitored: _____

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

Check if water column is less than 0.50 ft.

_____ xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: **Y / N** _____
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
_____	_____	_____	_____	_____	PRE: _____	PRE: _____	PRE: _____
_____	_____	_____	_____	_____	POST: _____	POST: _____	POST: _____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

COMMENTS: Unable to locate - Paved over

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: AW

Well ID: SP-5
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: _____ ft.
 Depth to Water: _____ ft.

Date Monitored: _____

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

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N _____
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
_____	_____	_____	_____	_____	PRE: _____	PRE: _____	PRE: _____
_____	_____	_____	_____	_____	POST: _____	POST: _____	POST: _____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

COMMENTS: Unable to locate - Paved over

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: JH

Well ID: S-MW-1
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: 27.36 ft.
 Depth to Water: 18.83 ft.
8.53 xVF .17 = 1.45

Date Monitored: 2/11/16

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 than 0.50 ft.

x3 case volume = Estimated Purge Volume: 4.35 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.53

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0815
 Sample Time/Date: 0900 / 2/11/16
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Clear
 Water Color: Cloudy Odor: (Y) / L₁₀ H₅
 Sediment Description: L₁₀ H₅
 DTW @ Sampling: 20.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS (umhos/cm))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0820</u>	<u>1.5</u>	<u>7.64</u>	<u>694</u>	<u>20.4</u>	<u>PRE: 1.1</u>	<u>PRE: 54</u>	<u>PRE: 98.6</u>
<u>0825</u>	<u>3.0</u>	<u>7.48</u>	<u>681</u>	<u>20.1</u>			
<u>0830</u>	<u>4.5</u>	<u>7.37</u>	<u>669</u>	<u>20.2</u>	<u>POST: 1.5</u>	<u>POST: 90</u>	<u>POST: 125.1</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-1</u>	<u>3</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2-11-16 (inclusive)
 Sampler: AW

Well ID: S-MW-2
 Well Diameter: 1 1/4 / 1 1/6 in.
 Total Depth: 28.00 ft.
 Depth to Water: 19.29 ft.
8.71 xVF .17 = 1.48

Date Monitored: 2-11-16

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 than 0.50 ft.

x3 case volume = Estimated Purge Volume: 4.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.03

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0655
 Sample Time/Date: 0720 / 2-11-16
 Approx. Flow Rate: _____ gpm.
 Did well de-water? ✓ If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Dawn
 Water Color: Cloudy Odor: CO / N Slight
 Sediment Description: Cloudy
 DTW @ Sampling: 20.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0700	1.5	6.88	255	19.1	PRE: 1.2	PRE: 53	PRE: 280
0705	3.0	6.92	280	19.2			
0710	4.5	6.97	304	19.4	POST: 1.4	POST: 109	POST: 300

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-2	3 x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

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 #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2/11/16 (inclusive)
 City: Oakland, CA Sampler: GM

Well ID: S-MW-3 Date Monitored: 2/11/16
 Well Diameter: 1 1/2 4/16 in.
 Total Depth: 26.82 ft.
 Depth to Water: 18.59 ft. Check if water column is less than 0.50 ft.
8.23 xVF 0.17 = 1.39 x3 case volume = Estimated Purge Volume: 4.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.23

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

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

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

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

Start Time (purge): 0835 Weather Conditions: SUNNY
 Sample Time/Date: 0915 12/11/16 Water Color: CLOUDY Odor: DIN SLIGHT
 Approx. Flow Rate: _____ gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.49

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0838</u>	<u>1.5</u>	<u>7.06</u>	<u>309</u>	<u>16.8</u>	<u>PRE: 1.6</u>	<u>PRE: -14</u>	<u>PRE: 199</u>
<u>0841</u>	<u>3</u>	<u>6.99</u>	<u>304</u>	<u>16.5</u>			
<u>0844</u>	<u>4.5</u>	<u>6.95</u>	<u>301</u>	<u>16.4</u>	<u>POST: 2.0</u>	<u>POST: -9</u>	<u>POST: 297</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-3</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: JH

Well ID: S-MW-4
 Well Diameter: 11 1/4 / 16 in.
 Total Depth: 29.30 ft.
 Depth to Water: 18.83 ft.
10.47 xVF .17 = 1.77

Date Monitored: 2/11/16

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 5.33 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.92

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0710
 Sample Time/Date: 0750 / 2/11/16
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: Clear
 Water Color: Cloudy Odor: Y 10
 Sediment Description: ACU HO
 Volume: _____ gal. DTW @ Sampling: 20.37

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0715</u>	<u>2</u>	<u>6.94</u>	<u>678</u>	<u>20.1</u>	<u>PRE: 1.0</u>	<u>PRE: 31</u>	<u>PRE: 71.1</u>
<u>0720</u>	<u>4</u>	<u>6.90</u>	<u>691</u>	<u>20.3</u>			
<u>0725</u>	<u>5.5</u>	<u>6.82</u>	<u>704</u>	<u>20.4</u>	<u>POST: 1.3</u>	<u>POST: 68</u>	<u>POST: 105.3</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: GM

Well ID: S-MW-5
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: 28.86 ft.
 Depth to Water: 18.98 ft.
9.88 xVF 0.17 = 1.67

Date Monitored: 2/11/16

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 5.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.95

Purge Equipment:

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

Sampling Equipment:

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

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>6</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0645
 Sample Time/Date: 0725 / 2/11/16
 Approx. Flow Rate: — gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: CLEAR
 Water Color: Cloudy Odor: SPN STRONG
 Sediment Description: SL SILT
 DTW @ Sampling: 19.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0650</u>	<u>2</u>	<u>7.09</u>	<u>1170</u>	<u>16.1</u>	<u>PRE: 1.7</u>	<u>PRE: -50</u>	<u>PRE: 190</u>
<u>0655</u>	<u>4</u>	<u>7.01</u>	<u>1056</u>	<u>16.0</u>			
<u>0700</u>	<u>5.5</u>	<u>6.99</u>	<u>1048</u>	<u>15.9</u>	<u>POST: 2.0</u>	<u>POST: -44</u>	<u>POST: 207</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-5</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: GM

Well ID: S-MW-6
 Well Diameter: 1 1/2" / 4 1/6 in.
 Total Depth: 49.30 ft.
 Depth to Water: 25.69 ft.
23.61 xVF 0.17 = 4.01

Date Monitored: 2/11/16

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 13 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.41

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0745
 Sample Time/Date: 0820 / 2/11/16
 Approx. Flow Rate: 1 gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SLIGHTLY
 Water Color: CLEAR Odor: YIN
 Sediment Description: NONE
 DTW @ Sampling: 28.45

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US) mS (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0750</u>	<u>5</u>	<u>7.81</u>	<u>416</u>	<u>16.9</u>	<u>PRE: 2.2</u>	<u>PRE: -69</u>	<u>PRE: 114</u>
<u>0754</u>	<u>9</u>	<u>7.74</u>	<u>410</u>	<u>16.7</u>			
<u>0758</u>	<u>13</u>	<u>7.69</u>	<u>404</u>	<u>16.6</u>	<u>POST: 2.4</u>	<u>POST: -61</u>	<u>POST: 189</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-6</u>	<u>3 x vva vial</u>	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2/11/16 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: S-EW-1 Date Monitored: 2/11/16
 Well Diameter: 1 1/2 / 4 / 10 in.
 Total Depth: 28.66 ft.
 Depth to Water: 18.60 ft. Check if water column is less than 0.50 ft.
10.06 xVF 1.50 = 15.09 x3 case volume = Estimated Purge Volume: 45.27 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.61

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0915 Weather Conditions: Clean
 Sample Time/Date: 1025 / 2/11/16 Water Color: Cloudy Odor: Oil N Lush
 Approx. Flow Rate: 1 gpm. Sediment Description: Lush
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.38

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0930</u>	<u>15</u>	<u>7.63</u>	<u>737</u>	<u>20.2</u>	PRE: <u>1.3</u>	PRE: <u>25</u>	PRE: <u>73.5</u>
<u>0945</u>	<u>30</u>	<u>7.48</u>	<u>711</u>	<u>20.1</u>			
<u>1000</u>	<u>45</u>	<u>7.21</u>	<u>703</u>	<u>19.8</u>	POST: <u>1.8</u>	POST: <u>61</u>	POST: <u>104.8</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-EU-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPPH(8260)/BTEX+MTBE(8260)</u>

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 #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 2-11-16 (inclusive)
 City: Oakland, CA Sampler: AW

Well ID: MPE-1 Date Monitored: 2-11-16
 Well Diameter: 1 1/2 (4) 6 in.
 Total Depth: 32.10 ft.
 Depth to Water: 18.83 ft. Check if water column is less than 0.50 ft.
13.27 xVF -66 = 8.75 x3 case volume = Estimated Purge Volume: 26.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.48

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

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 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:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0735 Weather Conditions: Sunny
 Sample Time/Date: 0810 / 2-11-16 Water Color: Cloudy Odor: DN moderate
 Approx. Flow Rate: 1-2 gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS / μ mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0741</u>	<u>9.0</u>	<u>6.71</u>	<u>260</u>	<u>19.3</u>	PRE: <u>1.2</u>	PRE: <u>59</u>	PRE: <u>236</u>
<u>0747</u>	<u>18.0</u>	<u>6.80</u>	<u>299</u>	<u>19.8</u>			
<u>0755</u>	<u>27.0</u>	<u>6.86</u>	<u>314</u>	<u>19.6</u>	POST: <u>1.3</u>	POST: <u>76</u>	POST: <u>300</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MPE-1</u>	<u>3</u> x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

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 #351646 / 0752
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 2/11/16 (inclusive)
 Sampler: GM

Well ID: MP-1
 Well Diameter: 12 1/4 in.
 Total Depth: _____ ft.
 Depth to Water: UTA ft.

Date Monitored: 2/11/16 (UTA)

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

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N _____
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
_____	_____	_____	_____	_____	PRE: _____	PRE: _____	PRE: _____
_____	_____	_____	_____	_____	POST: _____	POST: _____	POST: _____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

COMMENTS: PARKED OVER, UNABLE TO ACCESS.

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: <u>0752</u>				Union Oil Consultant: <u>Arcadis</u>		ANALYSES REQUIRED																
Site Global ID: <u>T0600101486</u>				Consultant Contact: <u>Tamera Rogers</u>		TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/ <u> </u> by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TPH (<u>8260B</u>)										Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>	
Site Address: <u>800 Harrison St. Oakland CA</u>				Consultant Phone No.: <u>408-797-2013</u>																		
Union Oil PM: <u>Nicole Arreoneaux</u>				Sampling Company: <u>Greiner-Ryan</u>																		
Union Oil PM Phone No.:				Sampled By (PRINT): <u>Alex Wong</u>		Special Instructions																
Charge Code: <u>NWRTB-0 351646-0-LAB</u>				Sampler Signature: _____																		
<p><i>This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.</i></p>				<p>BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911</p>		Notes / Comments																
SAMPLE ID																						
Field Point Name	Matrix	Depth	Date (yyymmdd)	Sample Time	# of Containers																	
QA	W-S-A		160211		2			X														
MW-1	W-S-A			0616	3			X														
MW-2	W-S-A			0535																		
MW-3	W-S-A			0900																		
MW-4	W-S-A			0741																		
MW-5	W-S-A			0700																		
MW-6	W-S-A			0818																		
MW-7	W-S-A			0540																		
MW-8	W-S-A			0630																		
A-MW-1	W-S-A			0525																		
A-MW-2	W-S-A			0640																		
A-MW-3	W-S-A			0605																		
Relinquished By _____ Company _____ Date / Time: <u>2/11/16 1325</u>				Relinquished By _____ Company _____ Date / Time: _____				Relinquished By _____ Company _____ Date / Time: _____														
Received By <u>Ross Dickson</u> Company <u>BC LABS</u> Date / Time: <u>2/11/16 1325</u>				Received By _____ Company _____ Date / Time: _____				Received By _____ Company _____ Date / Time: _____														

ARCADIS

Attachment B

Historical Groundwater Results from TRC

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

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														
6/5/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
9/30/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
12/30/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
4/2/1992	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
6/30/1992	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
9/15/1992	34.94	--	--	--	--	76	--	1.0	ND	ND	ND	--	--	
12/21/1992	34.94	21.17	0.00	13.77	--	95	--	0.69	ND	ND	1.0	--	--	
4/28/1993	34.94	--	--	--	--	920	--	3.1	2.3	1.2	9.7	--	--	
7/23/1993	34.94	20.13	0.00	14.81	--	ND	--	0.5	0.66	ND	ND	--	--	
10/5/1993	34.69	20.30	0.00	14.39	-0.42	92	--	1.5	ND	ND	0.72	--	--	
1/3/1994	34.69	20.52	0.00	14.17	-0.22	ND	--	ND	ND	ND	ND	--	--	
4/2/1994	34.69	20.16	0.00	14.53	0.36	ND	--	ND	ND	ND	ND	--	--	
7/5/1994	34.69	19.27	0.00	15.42	0.89	250	--	4.8	13	1.2	7.3	--	--	
10/6/1994	34.69	20.87	0.00	13.82	-1.60	540	--	1.4	ND	0.66	11	--	--	
1/2/1995	34.69	19.67	0.00	15.02	1.20	140	--	ND	ND	ND	ND	--	--	
4/3/1995	34.69	17.61	0.00	17.08	2.06	580	--	3.6	0.8	ND	4.0	--	--	
7/14/1995	34.69	18.58	0.00	16.11	-0.97	260	--	2.1	ND	ND	1.2	--	--	
10/10/1995	34.69	19.60	0.00	15.09	-1.02	220	--	2.0	ND	25	5.6	29	--	
1/3/1996	34.69	19.69	0.00	15.00	-0.09	190	--	2.4	ND	0.71	1.2	--	--	
4/10/1996	34.69	17.65	0.00	17.04	2.04	540	--	8.9	1.7	1.5	7.4	50	--	
7/9/1996	34.69	18.52	0.00	16.17	-0.87	490	--	3.0	1.4	1.3	2.5	150	--	
1/24/1997	34.69	17.72	0.00	16.97	0.80	760	--	27	0.89	5.2	10	510	--	
7/23/1997	34.69	19.42	0.00	15.27	-1.70	ND	--	ND	ND	ND	ND	550	--	
1/26/1998	34.69	17.46	0.00	17.23	1.96	1800	--	ND	ND	ND	ND	4800	--	
7/3/1998	34.69	18.61	0.00	16.08	-1.15	ND	--	ND	ND	ND	ND	1800	--	
1/14/1999	34.69	18.92	0.00	15.77	-0.31	83	--	ND	ND	ND	ND	230	--	
7/15/1999	34.69	17.84	0.00	16.85	1.08	110	--	ND	ND	ND	1.0	290	--	
1/7/2000	34.69	19.13	0.00	15.56	-1.29	ND	--	ND	ND	ND	ND	260	--	
7/19/2000	34.69	20.27	0.00	14.42	-1.14	ND	--	ND	ND	ND	ND	648	--	
1/2/2001	34.69	20.04	0.00	14.65	0.23	ND	--	ND	ND	ND	ND	119	--	
5/23/2001	34.69	18.27	0.00	16.42	1.77	84	--	ND	ND	ND	ND	760	--	
7/30/2001	34.69	18.56	0.00	16.13	-0.29	<50	--	<0.50	<0.50	<0.50	<0.50	350	--	
10/15/2001	34.69	18.72	0.00	15.97	-0.16	96	--	<0.50	<0.50	<0.50	<0.50	160	--	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
1/14/2002	34.69	16.78	0.00	17.91	1.94	450	--	<2.5	<2.5	<2.5	3.3	4100	--	
4/15/2002	34.69	17.35	0.00	17.34	-0.57	<1000	--	<10	<10	<10	<10	10000	--	
7/15/2002	34.69	17.63	0.00	17.06	-0.28	2100	--	<10	<10	<10	<20	--	2100	
1/18/2003	34.69	17.04	0.00	17.65	0.59	<25000	--	<250	<250	<250	<500	--	29000	
7/11/2003	34.69	17.91	0.00	16.78	-0.87	4000	--	<25	<25	<25	<50	--	6300	
2/4/2004	34.69	17.98	0.00	16.71	-0.07	--	8000	<50	<50	<50	<100	--	8500	
8/11/2004	34.69	17.84	0.00	16.85	0.14	--	1100	<10	<10	<10	<20	--	1500	
3/31/2005	34.69	15.71	0.00	18.98	2.13	--	<2000	<0.50	<0.50	0.54	2.2	--	4900	
9/30/2005	34.69	17.65	0.00	17.04	-1.94	--	190	<0.50	<0.50	<0.50	<1.0	--	160	
3/27/2006	34.69	15.03	0.00	19.66	2.62	--	760	<0.50	<0.50	<0.50	<1.0	--	1000	
9/27/2006	34.69	18.45	0.00	16.24	-3.42	--	170	<0.50	<0.50	<0.50	0.61	--	73	
3/27/2007	34.69	18.84	0.00	15.85	-0.39	--	120	<0.50	<0.50	<0.50	<0.50	--	99	
9/28/2007	34.69	19.73	0.00	14.96	-0.89	--	68	<0.50	<0.50	<0.50	<0.50	--	15	
3/26/2008	34.69	19.32	0.00	15.37	0.41	--	200	<0.50	<0.50	<0.50	1.0	--	47	
7/28/2008	34.69	20.15	0.00	14.54	-0.83	--	<50	<0.50	<0.50	<0.50	<1.0	--	8.7	
1/26/2009	34.69	20.74	0.00	13.95	-0.59	--	<50	<0.50	<0.50	<0.50	<1.0	--	5.2	
8/3/2009	34.72	20.10	0.00	14.62	0.67	--	76	<0.50	<0.50	<0.50	<1.0	--	12	
1/25/2010	34.72	19.78	0.00	14.94	0.32	--	<50	<0.50	<0.50	<0.50	<1.0	--	14	
8/3/2010	34.72	19.47	0.00	15.25	0.31	--	210	<0.50	<0.50	<0.50	<1.0	--	37	
2/17/2011	34.72	19.50	0.00	15.22	-0.03	--	150	<0.50	<0.50	<0.50	<1.0	--	17	
8/3/2011	34.72	18.96	0.00	15.76	0.54	--	230	<0.50	<0.50	<0.50	<1.0	--	44	
MW-2														
6/5/1991	34.97	--	--	--	--	49	--	ND	ND	ND	ND	--	--	
9/30/1991	34.97	--	--	--	--	130	--	18	0.53	14	9.6	--	--	
12/30/1991	34.97	--	--	--	--	91	--	16	0.89	11	1.9	--	--	
4/2/1992	34.97	--	--	--	--	88	--	12	0.32	6.3	7.2	--	--	
6/30/1992	34.97	--	--	--	--	76	--	9.3	0.76	4.8	6.9	--	--	
9/15/1992	34.97	--	--	--	--	1300	--	91	5.7	80	110	--	--	
12/21/1992	34.97	20.85	0.00	14.12	--	960	--	97	3.2	74	96	--	--	
4/28/1993	34.97	--	--	--	--	1300	--	76	1.9	130	87	--	--	
7/23/1993	34.97	19.81	0.00	15.16	--	66	--	1.8	ND	2.5	2.0	--	--	
10/5/1993	34.72	19.95	0.00	14.77	-0.39	120	--	12	ND	2.1	12	--	--	
1/3/1994	34.72	20.21	0.00	14.51	-0.26	260	--	25	ND	5.5	26	--	--	
4/2/1994	34.72	19.88	0.00	14.84	0.33	ND	--	0.65	ND	ND	0.99	--	--	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/5/1994	34.72	19.07	0.00	15.65	0.81	160	--	16	ND	0.73	10	--	--	
10/6/1994	34.72	20.55	0.00	14.17	-1.48	170	--	15	ND	1.4	11	--	--	
1/2/1995	34.72	19.25	0.00	15.47	1.30	190	--	27	ND	0.95	11	--	--	
4/3/1995	34.72	17.49	0.00	17.23	1.76	2400	--	65	6.6	19	63	--	--	
7/14/1995	34.72	18.30	0.00	16.42	-0.81	750	--	270	ND	ND	13	--	--	
10/10/1995	34.72	19.25	0.00	15.47	-0.95	50	--	1.6	ND	ND	ND	200	--	
1/3/1996	34.72	19.40	0.00	15.32	-0.15	ND	--	ND	ND	ND	ND	--	--	
4/10/1996	34.72	17.35	0.00	17.37	2.05	300	--	42	ND	2.4	9	620	--	
7/9/1996	34.72	18.22	0.00	16.50	-0.87	760	--	230	ND	1.3	2.4	1500	--	
1/24/1997	34.72	17.59	0.00	17.13	0.63	2900	--	400	350	190	720	1300	--	
7/23/1997	34.72	19.13	0.00	15.59	-1.54	ND	--	ND	ND	ND	ND	65	--	
1/26/1998	34.72	17.12	0.00	17.60	2.01	ND	--	ND	ND	ND	0.58	13	--	
7/3/1998	34.72	18.20	0.00	16.52	-1.08	140	--	26	ND	0.95	5.0	330	--	
1/14/1999	34.72	18.56	0.00	16.16	-0.36	ND	--	0.54	ND	ND	ND	350	--	
7/15/1999	34.72	17.39	0.00	17.33	1.17	ND	--	0.88	ND	ND	ND	39	--	
1/7/2000	34.72	18.78	0.00	15.94	-1.39	ND	--	ND	ND	ND	ND	24	--	
7/19/2000	34.72	19.68	0.00	15.04	-0.90	ND	--	1.45	ND	ND	ND	117	--	
1/2/2001	34.72	19.73	0.00	14.99	-0.05	ND	--	ND	ND	ND	ND	11.4	--	
5/23/2001	34.72	18.16	0.00	16.56	1.57	ND	--	ND	ND	ND	ND	33	--	
7/30/2001	34.72	18.34	0.00	16.38	-0.18	<50	--	<0.50	<0.50	<0.50	<0.50	67	--	
10/15/2001	34.72	18.52	0.00	16.20	-0.18	<50	--	<0.50	<0.50	<0.50	<0.50	31	--	
1/14/2002	34.72	16.72	0.00	18.00	1.80	<50	--	<0.50	<0.50	<0.50	0.56	11	--	
4/15/2002	34.72	17.26	0.00	17.46	-0.54	<50	--	<0.50	<0.50	<0.50	<0.50	110	--	
7/15/2002	34.72	17.46	0.00	17.26	-0.20	270	--	21	<0.50	3.8	4.0	--	73	
1/18/2003	34.72	16.93	0.00	17.79	0.53	<50	--	<0.50	<0.50	<0.50	<1.0	--	22	
7/11/2003	34.72	17.68	0.00	17.04	-0.75	130	--	3.0	<0.50	<0.50	<1.0	--	89	
2/4/2004	34.72	17.36	0.00	17.36	0.32	--	61	2.9	<0.50	<0.50	<1.0	--	22	
8/11/2004	34.72	17.61	0.00	17.11	-0.25	--	140	<0.50	0.60	<0.50	<1.0	--	94	
3/31/2005	34.72	15.56	0.00	19.16	2.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	14	
9/30/2005	34.72	17.31	0.00	17.41	-1.75	--	<50	<0.50	<0.50	<0.50	<1.0	--	9.1	
3/27/2006	34.72	14.91	0.00	19.81	2.40	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	
9/27/2006	34.72	18.15	0.00	16.57	-3.24	--	<50	<0.50	<0.50	<0.50	<0.50	--	7.7	
3/27/2007	34.72	18.57	0.00	16.15	-0.42	--	<50	<0.50	<0.50	<0.50	<0.50	--	1.4	
9/28/2007	34.72	18.38	0.00	16.34	0.19	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

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
3/26/2008	34.72	19.06	0.00	15.66	-0.68	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
7/28/2008	34.72	19.90	0.00	14.82	-0.84	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
1/26/2009	34.72	20.50	0.00	14.22	-0.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2009	34.74	19.92	0.00	14.82	0.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
1/25/2010	34.74	19.70	0.00	15.04	0.22	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2010	34.74	19.26	0.00	15.48	0.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
2/17/2011	34.74	19.32	0.00	15.42	-0.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2011	34.74	18.74	0.00	16.00	0.58	--	77	6.7	<0.50	<0.50	<1.0	--	14	
MW-3														
6/5/1991	33.39	--	--	--	--	5800	--	1200	40	140	97	--	--	
9/30/1991	33.39	--	--	--	--	6800	--	1400	130	290	240	--	--	
12/30/1991	33.39	--	--	--	--	7200	--	2100	690	410	550	--	--	
4/2/1992	33.39	--	--	--	--	8000	--	1400	200	300	310	--	--	
6/30/1992	33.39	--	--	--	--	8900	--	1900	210	430	550	--	--	
9/15/1992	33.39	--	--	--	--	10000	--	1900	330	400	580	--	--	
12/21/1992	33.39	20.02	0.00	13.37	--	8500	--	1500	150	310	330	--	--	
4/28/1993	33.39	--	--	--	--	2600	--	220	7.6	41	27	--	--	
7/23/1993	33.39	19.00	0.00	14.39	--	4400	--	660	26	160	82	--	--	
10/5/1993	33.14	19.20	0.00	13.94	-0.45	9200	--	720	88	140	140	--	--	
1/3/1994	33.14	19.40	0.00	13.74	-0.20	4900	--	830	100	170	150	--	--	
4/2/1994	33.14	19.01	0.00	14.13	0.39	6000	--	800	30	140	110	--	--	
7/5/1994	33.14	18.14	0.00	15.00	0.87	25000	--	ND	ND	ND	ND	--	--	
10/6/1994	33.14	19.73	0.00	13.41	-1.59	49000	--	1300	200	280	300	--	--	
1/2/1995	33.14	18.36	0.00	14.78	1.37	480	--	1.6	ND	1.4	ND	--	--	
4/3/1995	33.14	16.38	0.00	16.76	1.98	8100	--	65	ND	ND	ND	--	--	
7/14/1995	33.14	17.49	0.00	15.65	-1.11	ND	--	1300	ND	ND	ND	--	--	
10/10/1995	33.14	18.50	0.00	14.64	-1.01	3100	--	1400	36	50	53	190000	--	
1/3/1996	33.14	18.54	0.00	14.60	-0.04	ND	--	2300	110	150	140	--	--	
7/9/1996	33.14	17.43	0.00	15.71	1.11	ND	--	2000	ND	150	160	140000	--	
1/24/1997	33.14	16.57	0.00	16.57	0.86	540	--	8.0	ND	11	9.9	45	--	
7/23/1997	33.14	18.38	0.00	14.76	-1.81	7400	--	1900	180	140	340	45000	--	
1/26/1998	33.14	16.22	0.00	16.92	2.16	250	--	2.2	1.9	0.87	1.9	4.0	--	
7/3/1998	33.14	17.46	--	15.68	-1.24	230	--	1.8	2.5	1.5	3.4	6.3	--	
1/14/1999	33.14	17.73	--	15.41	-0.27	400	--	8.2	2.7	0.90	5.9	140	--	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/15/1999	33.14	16.58	--	16.56	1.15	290	--	3.3	3.6	1.7	2.5	13	--	
1/7/2000	33.14	17.84	--	15.30	-1.26	ND	--	890	91	100	480	20000	--	
7/19/2000	33.14	18.92	--	14.22	-1.08	354	--	3.87	2.61	0.646	ND	13.7	--	
1/2/2001	33.14	19.07	--	14.07	-0.15	464	--	ND	3.69	3.91	ND	21.1	--	
5/23/2001	33.14	17.12	--	16.02	1.95	420	--	7.6	3.1	3.0	5.1	1900	--	
7/30/2001	33.14	17.38	--	15.76	-0.26	290	--	4.6	4.1	<0.50	3.4	23	--	
10/15/2001	33.14	17.61	--	15.53	-0.23	400	--	<0.50	<0.50	<0.50	<0.50	13	--	
1/14/2002	33.14	15.53	--	17.61	2.08	130	--	0.50	0.61	1.1	<0.50	9.9	--	
4/15/2002	33.14	16.12	--	17.02	-0.59	280	--	9.9	1.6	3.3	6.8	1400	--	
7/15/2002	33.14	16.48	--	16.66	-0.36	64	--	<0.50	<0.50	<0.50	<1.0	33	--	
1/18/2003	33.14	15.81	--	17.33	0.67	420	--	0.54	<0.50	<0.50	<1.0	130	--	
7/11/2003	33.14	16.74	--	16.40	-0.93	--	300	2.3	<0.50	<0.50	<1.0	--	31	
2/4/2004	33.14	16.15	0.00	16.99	0.59	--	130	7.9	<0.50	<0.50	<1.0	--	63	
8/11/2004	33.14	16.64	0.00	16.50	-0.49	--	<20000	<200	<200	<200	<400	--	20000	
3/31/2005	33.14	14.53	0.00	18.61	2.11	--	<20000	330	<200	<200	<400	--	78000	
9/30/2005	33.14	16.55	0.00	16.59	-2.02	--	12000	360	40	<25	50	--	20000	
3/27/2006	33.14	13.66	0.00	19.48	2.89	--	10000	150	<25	53	99	--	15000	
9/27/2006	33.14	17.40	0.00	15.74	-3.74	--	<12000	<120	<120	<120	<120	--	12000	
3/27/2007	33.14	17.55	0.00	15.59	-0.15	--	8700	180	<12	60	57	--	8900	
9/28/2007	33.14	18.59	0.00	14.55	-1.04	--	9000	55	<50	<50	<50	--	11000	
3/26/2008	33.14	18.19	0.00	14.95	0.40	--	450	13	1.3	0.84	1.4	--	7200	
7/28/2008	33.14	19.00	0.00	14.14	-0.81	--	8300	<50	<50	<50	<100	--	13000	
1/26/2009	33.14	19.54	0.00	13.60	-0.54	--	8800	27	<12	<12	<25	--	13000	
8/3/2009	33.18	18.90	0.00	14.28	0.68	--	9300	56	<50	<50	<100	--	8000	
1/25/2010	33.18	18.54	0.00	14.64	0.36	--	4900	79	7.3	5.4	13	--	8100	
8/3/2010	33.18	18.35	0.00	14.83	0.19	--	2500	30	<12	<12	<25	--	4600	
2/17/2011	33.18	18.30	0.00	14.88	0.05	--	3800	11	<5.0	<5.0	<10	--	4700	
8/3/2011	33.18	17.87	0.00	15.31	0.43	--	2,600	9.7	0.8	3.1	1.4	--	2,000	
MW-4														
10/19/1992	--	--	--	--	--	480	--	0.51	2.1	2.8	6.8	--	--	
12/21/1992	33.12	19.73	--	13.39	--	220	--	ND	ND	0.97	0.74	--	--	
4/28/1993	33.12	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
7/23/1993	33.12	18.72	--	14.40	--	85	--	ND	ND	ND	ND	--	--	
10/5/1993	32.71	18.74	--	13.97	-0.43	130	--	ND	ND	ND	ND	--	--	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

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
1/3/1994	32.71	18.93	--	13.78	-0.19	210	--	ND	ND	0.76	1.6	--	--	
4/2/1994	32.71	18.53	--	14.18	0.40	89	--	ND	ND	ND	ND	--	--	
7/5/1994	32.71	17.67	--	15.04	0.86	190	--	ND	ND	ND	ND	--	--	
10/6/1994	32.71	19.25	--	13.46	-1.58	170	--	0.85	ND	ND	0.74	--	--	
1/2/1995	32.71	17.75	--	14.96	1.50	ND	--	ND	ND	ND	ND	--	--	
4/3/1995	32.71	15.87	--	16.84	1.88	98	--	ND	ND	ND	ND	--	--	
7/14/1995	32.71	17.01	--	15.70	-1.14	ND	--	ND	ND	ND	ND	--	--	
10/10/1995	32.71	18.03	--	14.68	-1.02	ND	--	ND	ND	ND	ND	120	--	
1/3/1996	32.71	18.05	--	14.66	-0.02	ND	--	ND	ND	ND	ND	--	--	
4/10/1996	32.71	16.00	--	16.71	2.05	ND	--	ND	ND	ND	ND	240	--	
7/9/1996	32.71	16.96	--	15.75	-0.96	ND	--	ND	ND	ND	ND	480	--	
1/24/1997	32.71	16.04	0.00	16.67	0.92	ND	--	ND	ND	ND	ND	270	--	
7/23/1997	32.71	17.87	0.00	14.84	-1.83	ND	--	ND	ND	ND	ND	460	--	
1/26/1998	32.71	16.05	--	16.66	1.82	ND	--	ND	ND	ND	ND	17	--	
7/3/1998	32.71	16.95	--	15.76	-0.90	ND	--	ND	ND	ND	ND	3.8	--	
1/14/1999	32.71	17.34	--	15.37	-0.39	ND	--	ND	ND	ND	ND	4600	--	
7/15/1999	32.71	16.36	--	16.35	0.98	ND	--	ND	ND	ND	ND	ND	--	
1/7/2000	32.71	17.81	--	14.90	-1.45	ND	--	ND	ND	ND	ND	450	--	
7/19/2000	32.71	18.94	--	13.77	-1.13	ND	--	ND	ND	ND	ND	ND	--	
1/2/2001	32.71	18.85	--	13.86	0.09	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.71	16.82	--	15.89	2.03	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.71	16.88	--	15.83	-0.06	<50	--	<0.50	<0.50	<0.50	<0.50	4.9	--	
10/15/2001	32.71	17.08	--	15.63	-0.20	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	
1/14/2002	32.71	14.97	--	17.74	2.11	<50	--	<0.50	<0.50	<0.50	<0.50	30	--	
4/15/2002	32.71	15.48	--	17.23	-0.51	<50	--	<0.50	<0.50	<0.50	<0.50	180	--	
7/15/2002	32.71	15.90	--	16.81	-0.42	<50	--	<0.50	<0.50	<0.50	<1.0	50	--	
1/18/2003	32.71	15.39	--	17.32	0.51	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.71	16.17	--	16.54	-0.78	--	200	<0.50	<0.50	<0.50	<1.0	--	52	
2/4/2004	32.71	16.12	0.00	16.59	0.05	--	1300	<10	<10	<10	<20	--	1700	
8/11/2004	32.71	16.16	0.00	16.55	-0.04	--	<5000	<50	<50	<50	<100	--	6400	
3/31/2005	32.71	14.15	0.00	18.56	2.01	--	<1300	<0.50	<0.50	<0.50	<1.0	--	1600	
9/30/2005	32.71	16.91	0.00	15.80	-2.76	--	900	<0.50	<0.50	<0.50	<1.0	--	3800	
3/27/2006	32.71	13.94	0.00	18.77	2.97	--	870	<0.50	<0.50	<0.50	<1.0	--	2000	
9/27/2006	32.71	16.91	0.00	15.80	-2.97	--	<1000	<10	<10	<10	<10	--	1600	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

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
3/27/2007	32.71	17.15	0.00	15.56	-0.24	--	1500	<2.5	<2.5	<2.5	<2.5	--	1700	
9/28/2007	32.71	18.13	0.00	14.58	-0.98	--	590	<5.0	<5.0	<5.0	<5.0	--	1400	
3/26/2008	32.71	17.66	0.00	15.05	0.47	--	390	<0.50	<0.50	<0.50	<1.0	--	1400	
7/28/2008	32.71	18.34	0.00	14.37	-0.68	--	480	<1.0	<1.0	<1.0	<2.0	--	950	
1/26/2009	32.71	18.80	0.00	13.91	-0.46	--	500	<0.50	<0.50	<0.50	<1.0	--	830	
8/3/2009	32.72	18.43	0.00	14.29	0.38	--	640	<5.0	6.6	<5.0	<10	--	570	
1/25/2010	32.72	18.02	0.00	14.70	0.41	--	190	<0.50	<0.50	<0.50	<1.0	--	400	
8/3/2010	32.72	17.83	0.00	14.89	0.19	--	58	<0.50	<0.50	<0.50	<1.0	--	110	
2/17/2011	32.72	17.85	0.00	14.87	-0.02	--	<50	<0.50	<0.50	<0.50	<1.0	--	12	
8/3/2011	32.72	17.36	0.00	15.36	0.49	--	<50	<0.50	<0.50	<0.50	<1.0	--	12	
MW-5														
10/19/1992	--	--	--	--	--	2700	--	61	5.0	100	61	--	--	
12/21/1992	33.25	19.75	--	13.50	--	1700	--	51	4.7	83	34	--	--	
4/28/1993	33.25	--	--	--	--	6700	--	200	190	250	430	--	--	
7/23/1993	33.25	18.74	--	14.51	--	2000	--	122	8.0	68	47	--	--	
10/5/1993	32.95	18.83	--	14.12	-0.39	1700	--	70	6.2	54	40	--	--	
1/3/1994	32.95	19.05	--	13.90	-0.22	1500	--	44	ND	42	46	--	--	
4/2/1994	32.95	18.68	--	14.27	0.37	1800	--	46	5.1	38	35	--	--	
7/5/1994	32.95	17.90	--	15.05	0.78	2200	--	97	8.4	37	36	--	--	
10/6/1994	32.95	19.37	--	13.58	-1.47	1600	--	79	5.7	28	22	--	--	
1/2/1995	32.95	17.92	--	15.03	1.45	1700	--	50	8.6	30	28	--	--	
4/3/1995	32.95	16.15	--	16.80	1.77	5400	--	190	240	170	420	--	--	
7/14/1995	32.95	17.18	--	15.77	-1.03	3800	--	210	100	130	190	--	--	
10/10/1995	32.95	18.15	--	14.80	-0.97	1300	--	92	14	15	39	1100	--	
1/3/1996	32.95	18.20	--	14.75	-0.05	630	--	53	4.4	8.3	13	--	--	
4/10/1996	32.95	16.05	--	16.90	2.15	500	--	25	18	7.0	20	640	--	
7/9/1996	32.95	17.11	--	15.84	-1.06	1000	--	44	20	10	34	150	--	
1/24/1997	32.95	16.36	0.00	16.59	0.75	4000	--	190	400	160	430	600	--	
7/23/1997	32.95	18.08	0.00	14.87	-1.72	1700	--	200	23	18	45	2500	--	
1/26/1998	32.95	16.27	--	16.68	1.81	ND	--	ND	ND	ND	ND	ND	--	
7/3/1998	32.95	17.27	--	15.68	-1.00	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.95	17.55	--	15.40	-0.28	330	--	61	4.1	2.2	2.9	560	--	
7/15/1999	32.95	16.41	--	16.54	1.14	1100	--	170	ND	ND	27	660	--	
1/7/2000	32.95	17.85	--	15.10	-1.44	1000	--	180	6.3	ND	14	430	--	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/19/2000	32.95	18.87	--	14.08	-1.02	2980	--	289	57.3	65.3	43.4	976	--	
1/2/2001	32.95	18.47	--	14.48	0.40	1150	--	87.2	17.8	7.97	9.32	368	--	
5/23/2001	32.95	17.38	--	15.57	1.09	840	--	42	10	13	7.1	130	--	
7/30/2001	32.95	17.12	--	15.83	0.26	1900	--	82	24	6.9	13	370	--	
10/15/2001	32.95	17.33	--	15.62	-0.21	26000	--	390	230	58	1300	<500	--	
1/14/2002	32.95	15.33	--	17.62	2.00	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.95	15.89	--	17.06	-0.56	310	--	20	6.7	11	7.7	77	--	
7/15/2002	32.95	16.21	--	16.74	-0.32	1500	--	40	22	60	28	170	--	
1/18/2003	32.95	15.68	--	17.27	0.53	<50	--	0.75	<0.50	<0.50	<1.0	81	--	
7/11/2003	32.95	16.29	--	16.66	-0.61	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.6	
2/4/2004	32.95	16.08	0.00	16.87	0.21	--	82	16	1.6	0.65	<1.0	--	16	
8/11/2004	32.95	16.38	0.00	16.57	-0.30	--	900	81	14	2.8	11	--	120	
3/31/2005	32.95	14.30	0.00	18.65	2.08	--	5000	160	84	65	72	--	140	
9/30/2005	32.95	16.19	0.00	16.76	-1.89	--	1200	26	5.8	2.4	9.2	--	38	
3/27/2006	32.95	13.90	0.00	19.05	2.29	--	1100	13	12	4.7	16	--	8.8	
9/27/2006	32.95	17.06	0.00	15.89	-3.16	--	1300	20	11	2.3	15	--	21	
3/27/2007	32.95	17.43	0.00	15.52	-0.37	--	960	15	7.8	2.2	11	--	14	
9/28/2007	32.95	18.25	0.00	14.70	-0.82	--	1300	13	6.0	2.3	15	--	8.4	
3/26/2008	32.95	17.82	0.00	15.13	0.43	--	1200	7.6	3.3	1.8	11	--	2.7	
7/28/2008	32.95	18.70	0.00	14.25	-0.88	--	2000	12	4.9	3.2	17	--	<0.50	
1/26/2009	32.95	19.25	0.00	13.70	-0.55	--	1400	7.4	3.3	2.5	11	--	3.3	
8/3/2009	32.98	18.62	0.00	14.36	0.66	--	1500	17	9.0	3.5	22	--	7.3	
1/25/2010	32.98	18.34	0.00	14.64	0.28	--	1600	7.6	3.6	2.4	15	--	1.7	
8/3/2010	32.98	18.07	0.00	14.91	0.27	--	2200	32	32	10	48	--	10	
2/17/2011	32.98	18.05	0.00	14.93	0.02	--	1800	33	7.4	<0.50	11	--	15	
8/3/2011	32.98	17.57	0.00	15.41	0.48	--	2,500	58	23	12	34	--	40	
MW-6														
10/19/1992	--	--	--	--	--	3900	--	420	12	60	28	--	--	
12/21/1992	32.42	19.17	--	13.25	--	2300	--	370	11	39	15	--	--	
4/28/1993	32.42	--	--	--	--	1200	--	54	1.5	11	5.3	--	--	
7/23/1993	32.42	18.17	--	14.25	--	580	--	19	0.99	3.4	2.7	--	--	
10/5/1993	32.16	18.35	--	13.81	-0.44	1400	--	34	ND	5.3	7.3	--	--	
1/3/1994	32.16	18.54	--	13.62	-0.19	1400	--	57	ND	8.5	11	--	--	
4/2/1994	32.16	18.15	--	14.01	0.39	5300	--	ND	ND	ND	ND	--	--	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/5/1994	32.16	17.25	--	14.91	0.90	ND	--	ND	ND	ND	ND	--	--	
10/6/1994	32.16	18.85	--	13.31	-1.60	11000	--	ND	ND	ND	ND	--	--	
1/2/1995	32.16	17.51	--	14.65	1.34	550	--	18	0.92	2.0	1.8	--	--	
4/3/1995	32.16	15.48	--	16.68	2.03	6600	--	ND	ND	ND	ND	--	--	
7/14/1995	32.16	16.63	--	15.53	-1.15	ND	--	ND	ND	ND	ND	--	--	
10/10/1995	32.16	17.68	--	14.48	-1.05	ND	--	81	ND	ND	ND	75000	--	
1/3/1996	32.16	17.66	--	14.50	0.02	70	--	9.9	0.58	ND	0.81	--	--	
4/10/1996	32.16	15.56	--	16.60	2.10	300	--	258	4.7	0.94	2.7	53000	--	
7/9/1996	32.16	16.59	--	15.57	-1.03	1800	--	410	ND	12	ND	76000	--	
1/24/1997	32.16	15.69	0.00	16.47	0.90	ND	--	0.80	ND	ND	ND	390	--	
7/23/1997	32.16	17.53	0.00	14.63	-1.84	5700	--	1100	240	240	700	16000	--	
1/26/1998	32.16	15.44	--	16.72	2.09	ND	--	ND	ND	ND	ND	ND	--	
7/3/1998	32.16	16.58	--	15.58	-1.14	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.16	17.02	--	15.14	-0.44	ND	--	ND	ND	ND	ND	14	--	
7/15/1999	32.16	15.95	--	16.21	1.07	ND	--	ND	ND	ND	ND	2.8	--	
1/7/2000	32.16	16.96	--	15.20	-1.01	78	--	24	ND	0.66	17	280	--	
7/19/2000	32.16	18.04	--	14.12	-1.08	ND	--	ND	1.32	ND	0.974	ND	--	
1/2/2001	32.16	18.10	--	14.06	-0.06	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.16	16.42	--	15.74	1.68	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.16	16.49	--	15.67	-0.07	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
10/15/2001	32.16	16.67	--	15.49	-0.18	<50	--	<0.50	0.62	<0.50	<0.50	<5.0	--	
1/14/2002	32.16	14.60	--	17.56	2.07	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.16	15.07	--	17.09	-0.47	<50	--	<0.50	<0.50	<0.50	0.73	<5.0	--	
7/15/2002	32.16	15.56	--	16.60	-0.49	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	
1/18/2003	32.16	15.80	--	16.36	-0.24	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.16	15.74	--	16.42	0.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	
2/4/2004	32.16	15.49	0.00	16.67	0.25	--	<50	2.6	<0.50	<0.50	<1.0	--	2.4	
8/11/2004	32.16	15.81	0.00	16.35	-0.32	--	7900	95	<50	<50	<100	--	9100	
3/31/2005	32.16	13.70	0.00	18.46	2.11	--	<5000	2.5	<0.50	<0.50	<1.0	--	7600	
9/30/2005	32.16	15.48	0.00	16.68	-1.78	--	4300	140	37	28	41	--	5800	
3/27/2006	32.16	13.02	0.00	19.14	2.46	--	7200	34	0.66	0.96	18	--	9900	
9/27/2006	32.16	16.56	0.00	15.60	-3.54	--	1800	<12	<12	<12	<12	--	3300	
3/27/2007	32.16	16.73	0.00	15.43	-0.17	--	1600	2.8	<2.5	<2.5	<2.5	--	1800	
9/28/2007	32.16	17.75	0.00	14.41	-1.02	--	830	<5.0	<5.0	<5.0	<5.0	--	1600	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

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
3/26/2008	32.16	17.31	0.00	14.85	0.44	--	940	45	5.9	2.0	5.3	--	1300	
7/28/2008	32.16	18.50	0.00	13.66	-1.19	--	500	<1.0	<1.0	<1.0	<2.0	--	750	
1/26/2009	32.16	18.46	0.00	13.70	0.04	--	570	<0.50	<0.50	<0.50	<1.0	--	500	
8/3/2009	32.19	18.01	0.00	14.18	0.48	--	800	<5.0	<5.0	<5.0	<10	--	690	
1/25/2010	32.19	17.64	0.00	14.55	0.37	--	410	4.8	0.63	<0.50	1.4	--	390	
8/3/2010	32.19	17.48	0.00	14.71	0.16	--	480	2.0	<0.50	<0.50	<1.0	--	520	
2/17/2011	32.19	17.48	0.00	14.71	0.00	--	290	<0.50	<0.50	<0.50	<1.0	--	130	
8/3/2011	32.19	17.02	0.00	15.17	0.46	--	330	<0.50	<0.50	<0.50	<1.0	--	89	
MW-7														
10/19/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	
4/28/1993	32.49	--	--	--	--	110	--	2.8	1.3	1.4	1.7	--	--	
7/23/1993	32.49	18.60	--	13.89	--	790	--	23	3.3	28	5.4	--	--	
10/5/1993	32.20	18.76	--	13.44	-0.45	360	--	10	1.2	0.91	0.99	--	--	
1/3/1994	32.20	18.91	--	13.29	-0.15	ND	--	0.93	ND	0.75	1.9	--	--	
4/2/1994	32.20	18.50	--	13.70	0.41	360	--	2.0	ND	ND	0.8	--	--	
7/5/1994	32.20	17.52	--	14.68	0.98	ND	--	ND	ND	ND	ND	--	--	
10/6/1994	32.20	19.25	--	12.95	-1.73	340	--	5.6	0.85	ND	1.2	--	--	
1/2/1995	32.20	17.67	--	14.53	1.58	ND	--	ND	ND	ND	ND	--	--	
4/3/1995	32.20	15.81	--	16.39	1.86	570	--	24	ND	3.4	5.8	--	--	
7/14/1995	32.20	17.05	--	15.15	-1.24	ND	--	14	ND	ND	ND	--	--	
10/10/1995	32.20	18.08	--	14.12	-1.03	740	--	170	ND	ND	ND	13000	--	
1/3/1996	32.20	18.02	--	14.18	0.06	360	--	16	1.3	2.7	1.4	--	--	
4/10/1996	32.20	15.81	--	16.39	2.21	120	--	4.1	1.5	ND	0.88	3200	--	
7/9/1996	32.20	16.99	--	15.21	-1.18	ND	--	ND	ND	ND	ND	3400	--	
1/24/1997	32.20	16.08	0.00	16.12	0.91	ND	--	16	ND	ND	ND	6600	--	
7/23/1997	32.20	17.99	0.00	14.21	-1.91	ND	--	16	ND	ND	0.62	10000	--	
1/26/1998	32.20	15.56	--	16.64	2.43	ND	--	ND	ND	ND	0.56	ND	--	
7/3/1998	32.20	17.04	--	15.16	-1.48	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.20	--	--	--	--	--	--	--	--	--	--	--	--	
7/15/1999	32.20	15.72	--	16.48	--	ND	--	ND	ND	ND	ND	290	--	
1/7/2000	32.20	16.80	--	15.40	-1.08	ND	--	7.7	ND	ND	4.4	98	--	
7/19/2000	32.20	17.88	--	14.32	-1.08	ND	--	ND	1.27	ND	0.979	ND	--	
1/2/2001	32.20	17.97	--	14.23	-0.09	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.20	16.81	--	15.39	1.16	ND	--	ND	ND	ND	ND	ND	--	

essible-parke

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/30/2001	32.20	16.79	--	15.41	0.02	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
10/15/2001	32.20	16.98	--	15.22	-0.19	<50	--	<0.50	0.58	<0.50	<0.50	<5.0	--	
1/14/2002	32.20	14.85	--	17.35	2.13	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.20	15.29	--	16.91	-0.44	<50	--	<0.50	<0.50	<0.50	0.70	<5.0	--	
7/15/2002	32.20	15.92	--	16.28	-0.63	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	
1/18/2003	32.20	15.11	--	17.09	0.81	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.20	15.89	--	16.31	-0.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	19	
2/4/2004	32.20	15.90	0.00	16.30	-0.01	--	<50	3.6	<0.50	<0.50	<1.0	--	3.2	
8/11/2004	32.20	16.12	0.00	16.08	-0.22	--	<5000	120	<50	<50	<100	--	5100	
3/31/2005	32.20	13.99	0.00	18.21	2.13	--	<5000	190	<50	<50	<100	--	8400	
9/30/2005	32.20	15.93	0.00	16.27	-1.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
3/27/2006	32.20	13.40	0.00	18.80	2.53	--	2500	160	10	11	26	--	5600	
9/27/2006	32.20	16.96	0.00	15.24	-3.56	--	2800	180	<12	15	44	--	4200	
3/27/2007	32.20	17.30	0.00	14.90	-0.34	--	920	66	2.9	3.4	4.5	--	970	
9/28/2007	32.20	18.10	0.00	14.10	-0.80	--	4000	440	15	17	59	--	3300	
3/26/2008	32.20	17.64	0.00	14.56	0.46	--	390	39	3.3	0.85	7.5	--	96	
7/28/2008	32.20	18.50	0.00	13.70	-0.86	--	64	3.3	<0.50	<0.50	<1.0	--	8.7	
1/26/2009	32.20	18.90	0.00	13.30	-0.40	--	80	7.9	0.58	<0.50	<1.0	--	10	
8/3/2009	32.22	18.29	0.00	13.93	0.63	--	2100	220	14	10	31	--	750	
1/25/2010	32.22	17.49	0.00	14.73	0.80	--	490	25	3.5	0.54	6.9	--	16	
8/3/2010	32.22	17.84	0.00	14.38	-0.35	--	240	45	1.8	1.2	1.7	--	290	
2/17/2011	32.22	17.83	0.00	14.39	0.01	--	370	53	2.0	<0.50	2.1	--	12	
8/3/2011	32.22	17.42	0.00	14.80	0.41	--	390	20	1.8	<0.50	1.6	--	27	
MW-8														
4/28/1993	32.33	--	--	--	--	450	--	18	1.8	1.8	1.4	--	--	
7/23/1993	32.33	18.45	--	13.88	--	260	--	5.1	ND	0.6	ND	--	--	
10/5/1993	32.00	18.57	--	13.43	-0.45	120	--	1.7	ND	ND	ND	--	--	
1/3/1994	32.00	18.73	--	13.27	-0.16	ND	--	ND	ND	ND	ND	51	--	
4/2/1994	32.00	18.30	--	13.70	0.43	150	--	1.2	ND	ND	ND	--	--	
7/5/1994	32.00	17.41	--	14.59	0.89	730	--	17	ND	1.6	ND	--	--	
10/6/1994	32.00	18.98	--	13.02	-1.57	140	--	ND	ND	ND	ND	--	--	
1/2/1995	32.00	17.58	--	14.42	1.40	440	--	18	0.72	2.0	1.8	--	--	
4/3/1995	32.00	15.54	--	16.46	2.04	960	--	11	ND	ND	ND	--	--	
7/14/1995	32.00	16.81	--	15.19	-1.27	280	--	4.2	2.6	1.1	3.3	--	--	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

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
10/10/1995	32.00	17.85	--	14.15	-1.04	110	--	1.3	0.62	0.67	ND	170	--	
1/3/1996	32.00	17.82	--	14.18	0.03	63	--	ND	0.51	ND	1.8	--	--	
4/10/1996	32.00	15.70	--	16.30	2.12	ND	--	1.1	0.61	ND	ND	60	--	
7/9/1996	32.00	16.78	--	15.22	-1.08	72	--	1.0	ND	ND	ND	140	--	
1/24/1997	32.00	15.79	0.00	16.21	0.99	ND	--	ND	ND	ND	ND	76	--	
7/23/1997	32.00	17.69	0.00	14.31	-1.90	ND	--	ND	ND	ND	ND	270	--	
1/26/1998	32.00	15.50	--	16.50	2.19	ND	--	ND	ND	ND	0.76	2.9	--	
7/3/1998	32.00	16.80	--	15.20	-1.30	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.00	17.13	--	14.87	-0.33	ND	--	ND	ND	ND	ND	11	--	
7/15/1999	32.00	15.85	--	16.15	1.28	ND	--	ND	ND	ND	ND	ND	--	
1/7/2000	32.00	16.94	--	15.06	-1.09	ND	--	ND	ND	ND	ND	11	--	
7/19/2000	32.00	18.06	--	13.94	-1.12	ND	--	ND	2.99	0.521	ND	ND	--	
1/2/2001	32.00	18.12	--	13.88	-0.06	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.00	16.96	--	15.04	1.16	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.00	16.52	--	15.48	0.44	<50	--	<0.50	<0.50	<0.50	<0.50	2.7	--	
10/15/2001	32.00	16.72	--	15.28	-0.20	<50	--	<0.50	0.65	<0.50	<0.50	<5.0	--	
1/14/2002	32.00	14.53	--	17.47	2.19	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.00	14.96	--	17.04	-0.43	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	
7/15/2002	32.00	15.60	--	16.40	-0.64	<50	--	<0.50	<0.50	<0.50	<1.0	11	--	
1/18/2003	32.00	14.78	--	17.22	0.82	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
2/4/2004	32.00	15.65	0.00	16.35	-0.87	--	52	2.3	<0.50	<0.50	<1.0	--	2.4	
8/11/2004	32.00	15.86	0.00	16.14	-0.21	--	350	<2.5	<2.5	<2.5	<5.0	--	310	
3/31/2005	32.00	13.73	0.00	18.27	2.13	--	<2000	<0.50	<0.50	<0.50	<1.0	--	2100	
9/30/2005	32.00	15.94	0.00	16.06	-2.21	--	1200	<0.50	0.50	<0.50	<1.0	--	6900	
3/27/2006	32.00	13.13	0.00	18.87	2.81	--	460	<0.50	<0.50	<0.50	<1.0	--	820	
9/27/2006	32.00	16.75	0.00	15.25	-3.62	--	520	<5.0	<5.0	<5.0	8.2	--	870	
3/27/2007	32.00	16.87	0.00	15.13	-0.12	--	1400	<0.50	<0.50	<0.50	<0.50	--	3600	
9/28/2007	32.00	17.91	0.00	14.09	-1.04	--	280	<2.5	<2.5	<2.5	<2.5	--	670	
3/26/2008	32.00	17.45	0.00	14.55	0.46	--	110	<0.50	<0.50	<0.50	<1.0	--	210	
7/28/2008	32.00	18.50	0.00	13.50	-1.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	11	
1/26/2009	32.00	18.65	0.00	13.35	-0.15	--	<50	<0.50	<0.50	<0.50	<1.0	--	22	
8/3/2009	32.03	18.11	0.00	13.92	0.57	--	67	<0.50	<0.50	<0.50	<1.0	--	64	
1/25/2010	32.03	17.67	0.00	14.36	0.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	
8/3/2010	32.03	17.58	0.00	14.45	0.09	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
76 Station 0752**

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
2/17/2011	32.03	17.53	0.00	14.50	0.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	
8/3/2011	32.03	17.18	0.00	14.85	0.35	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.6	

ARCADIS

Attachment C

Laboratory Reports and Chain-of-Custody Documentation



Date of Report: 02/20/2016

Tamera Rogers

Arcadis

2000 Powell Street 7th Floor
Emeryville, CA 94608

Client Project: 351646
BCL Project: 0752
BCL Work Order: 1604453
Invoice ID: B227324

Enclosed are the results of analyses for samples received by the laboratory on 2/11/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

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

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

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CHAIN OF CUSTODY FORM
Union Oil Company of California 6101 Bollinger Canyon Road San Ramon, CA 94583

Union Oil Site ID: 0752		Union Oil Consultant: Arcadis		ANALYSES REQUIRED		Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>					
Site Global ID: T0600101486		Consultant Contact: Tamera Rogers		EPA 8260B Full List with OXYS		Special Instructions					
Site Address: 800 Harrison St. Oakland CA		Consulting Phone No.: 408-797-2013		Ethanol by EPA 8260B							
Union Oil PM: Nicole Arceneaux		Sampling Company: Gettler-Ryan		BTEX/MTBE by EPA 8260B							
Union Oil PM Phone No.:		Sampled By (PRINT): Alex Wong		TPH - G by GC/MS							
Charge Code: NWRFB-03516460-LAB		Sampler Signature:		TPH - Diesel by EPA 8015							
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									
SAMPLE ID			Matrix	Depth	Date (yyymmdd)	Sample Time	# of Containers	Notes / Comments			
QA	W-S-A	-1	160211				2				
MW-1	W-S-A	-2			0616		3				
MW-2	W-S-A	-3			0535						
MW-3	W-S-A	-4			0900						
MW-4	W-S-A	-5			0741						
MW-5	W-S-A	-6			0700						
MW-6	W-S-A	-7			0818						
MW-7	W-S-A	-8			0540						
MW-8	W-S-A	-9			0630						
A-MW-1	W-S-A	-10			0525						
A-MW-2	W-S-A	-11			0640						
A-MW-3	W-S-A	-12			0605						
Relinquished By: GRAC		Date / Time: 2/11/16 1325		Relinquished By: Paul Dickey		Date / Time: 2/11/16 1755		Relinquished By: [Signature]		Date / Time: 2/11/16 2145	
Company: GRAC		Company: GRAC		Company: BC LAB		Company: BC LAB		Company: BC LAB		Company: BC LAB	
Received By: [Signature]		Date / Time: 2/11/16 1325		Received By: [Signature]		Date / Time: 2/11/16 1755		Received By: [Signature]		Date / Time: 2/11/16 2145	
Company: [Signature]		Company: [Signature]		Company: BC LAB		Company: BC LAB		Company: BC LAB		Company: BC LAB	

CHIK BY DISTRIBUTION
SUB-OUT

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16-04453

COC 2 of 2

CHAIN OF CUSTODY FORM

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

Union Oil Site ID: 0752
 Site Global ID: T0600101486
 Site Address: 800 Harrison St. Oakland CA
 Union Oil PM: Nicole Arceneaux
 Union Oil PM Phone No.: 925-790-6912
 Charge Code: NWRTB-0 351646-0- LAB

Union Oil Consultant: Arcadis
 Consultant Contact: Tamera Rogers
 Consultant Phone No.: 408-7122013
 Sampling Company: Geotier-Ryan
 Sampled By (PRINT): Alex Wong
 Sampler Signature: [Signature]

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.

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	ANALYSES REQUIRED						Notes / Comments			
						TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TPH (8260)		Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>	Special Instructions	
A-MW-5	W-S-A	-13	160211	0540	3										
A-MW-7	W-S-A	-14		0645											
S-MW-1	W-S-A	-15		0900											
S-MW-2	W-S-A	-16		0720											
S-MW-3	W-S-A	-17		0915											
S-MW-4	W-S-A	-18		0750											
S-MW-5	W-S-A	-19		0725											
S-MW-6	W-S-A	-20		0820											
S-EW-1	W-S-A	-21		1025											
MPE-1	W-S-A	-22		0810											

Relinquished By: [Signature] Company: GRINC Date / Time: 2/11/16 1325
 Relinquished By: [Signature] Company: BCLMB Date / Time: 2/11/16 1755
 Relinquished By: [Signature] Company: BCLDB Date / Time: 2/11/16 2145
 Received By: [Signature] Company: BCLMB Date / Time: 2/11/16 1325
 Received By: [Signature] Company: BCLDB Date / Time: 2/11/16 1755
 Received By: [Signature] Company: BCLDB Date / Time: 2/11/16 2145

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 3

Submission #: 16-04453

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.97. Container: PC. Thermometer ID: 208. Date/Time: 2/11/2012. Analyst Init: DDP. Temperature: (A) 2.5 °C, (C) 2.0 °C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT PE UNPRES, PT CYANIDE, etc. Handwritten entries include 'A, B' and 'A, B, C' in the sample number columns.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 2/12/12 1325 Rev 20 07/24/2015 [Stamp]



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 3

Submission #: 16-04453

SHIPPING INFORMATION		SHIPPING CONTAINER	FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/>	Other <input type="checkbox"/> (Specify) _____	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>
		Box <input type="checkbox"/>	Other <input type="checkbox"/> (Specify) _____
Refrigerant: Ice <input checked="" type="checkbox"/>		Blue Ice <input type="checkbox"/>	None <input type="checkbox"/>
Other <input type="checkbox"/>		Comments: _____	
Custody Seals: Ice Chest <input type="checkbox"/>		Containers <input type="checkbox"/>	None <input checked="" type="checkbox"/>
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>	
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
COC Received	Emissivity: <u>0.97</u>	Container: <u>PC</u>	Thermometer ID: <u>208</u>
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Temperature: (A) <u>2.5</u> °C / (C) <u>2.0</u> °C	Date/Time: <u>2/11/2015</u>	Analyst Init: <u>DDP</u>

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	20
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40mLVOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A	B	C	A	B	C	A	B	C	A
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
1oz / 16oz / 32oz AMBER										
1oz / 16oz / 32oz JAR										
SOIL SLEEVE										
CB VIAL										
PLASTIC BAG										
EDLAR BAG										
FERROUS IRON										
NCORE										
MART KIT										
UMMA CANISTER										

Comments: _____

Sample Numbering Completed By: DDP Date/Time: 2/12/15 1325 Rev 20 07/24/2015

= Actual / C = Corrected

(S:\WPDoc\WordPerfect\LAB_DOC\SF\FORMS\ISAMRECrev 20)



BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 of 3

Submission #: 16-04453

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.97. Container: PC. Thermometer ID: 208. Date/Time: 2/11/2015. Analyst Init: RDD. Temperature: (A) 2.5, (C) 2.0.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT PE UNPRES, INORGANIC CHEMICAL METALS, etc. Handwritten 'ABC' is present in the 2nd and 3rd columns for the 40ml VOA VIAL row.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 2/12/15 1325 Rev 20 07/24/2015



Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

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

1604453-01	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: QA-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): QA Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-02	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-1-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 06:16 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-03	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-2-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 05:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

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

1604453-04	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-3-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-05	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-4-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 07:41 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-06	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-5-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

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

1604453-07	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-6-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 08:18 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-08	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-7-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 05:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-09	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-8-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1604453-10	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-1-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 05:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): A-MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-11	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-2-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 06:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): A-MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-12	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-3-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 06:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): A-MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1604453-13	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-5-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 05:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): A-MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1604453-14	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-7-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 06:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): A-MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-15	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-1-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): S-MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1604453-16	COC Number: ---	Receive Date: 02/11/2016 21:45
	Project Number: 0752	Sampling Date: 02/11/2016 07:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: S-MW-2-W-160211	Lab Matrix: Water
	Sampled By: GRD	Sample Type: Water
		Delivery Work Order:
		Global ID: T0600101486
		Location ID (FieldPoint): S-MW-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1604453-17	COC Number: ---	Receive Date: 02/11/2016 21:45
	Project Number: 0752	Sampling Date: 02/11/2016 09:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: S-MW-3-W-160211	Lab Matrix: Water
	Sampled By: GRD	Sample Type: Water
		Delivery Work Order:
		Global ID: T0600101486
		Location ID (FieldPoint): S-MW-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1604453-18	COC Number: ---	Receive Date: 02/11/2016 21:45
	Project Number: 0752	Sampling Date: 02/11/2016 07:50
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: S-MW-4-W-160211	Lab Matrix: Water
	Sampled By: GRD	Sample Type: Water
		Delivery Work Order:
		Global ID: T0600101486
		Location ID (FieldPoint): S-MW-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1604453-19	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-5-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 07:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): S-MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1604453-20	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-6-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): S-MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1604453-21	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-EW-1-W-160211 Sampled By: GRD	Receive Date: 02/11/2016 21:45 Sampling Date: 02/11/2016 10:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): S-EW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1604453-22	COC Number: ---	Receive Date: 02/11/2016 21:45
	Project Number: 0752	Sampling Date: 02/11/2016 08:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MPE-1-W-160211	Lab Matrix: Water
	Sampled By: GRD	Sample Type: Water
		Delivery Work Order:
		Global ID: T0600101486
		Location ID (FieldPoint): MPE-1
		Matrix: W
		Sample QC Type (SACode): CS
	Cooler ID:	

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-01	Client Sample Name: 0752, QA-W-160211, 2/11/2016 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	87.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	93.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 13:50	IO1	MS-V12	1	BZB1273

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-02	Client Sample Name: 0752, MW-1-W-160211, 2/11/2016 6:16:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	2.9	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
Total Purgeable Petroleum Hydrocarbons	150	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 14:08	IO1	MS-V12	1	BZB1273

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-03	Client Sample Name: 0752, MW-2-W-160211, 2/11/2016 5:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	1.2	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
Total Purgeable Petroleum Hydrocarbons	93	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 14:25	IO1	MS-V12	1	BZB1273

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-04		Client Sample Name: 0752, MW-3-W-160211, 2/11/2016 9:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	9.3	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	3.1	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	54	ug/L	0.50		EPA-8260B	ND		1
Toluene	1.9	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	3.7	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	2500	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	83.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 17:57	IO1	MS-V12	1	BZB1273

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-05		Client Sample Name: 0752, MW-4-W-160211, 2/11/2016 7:41:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 14:43	IO1	MS-V12	1	BZB1273

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-06		Client Sample Name: 0752, MW-5-W-160211, 2/11/2016 7:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	0.98	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	0.77	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	2.1	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	2.6	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	810	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	72.0	%	80 - 120 (LCL - UCL)		EPA-8260B		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 15:01	IO1	MS-V12	1	BZB1273

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-07	Client Sample Name: 0752, MW-6-W-160211, 2/11/2016 8:18:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	0.70	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
Total Purgeable Petroleum Hydrocarbons	240	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	86.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	92.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	91.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/18/16 13:13	IO1	MS-V12	1	BZB1273

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-08	Client Sample Name: 0752, MW-7-W-160211, 2/11/2016 5:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	10	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	0.60	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	6.2	ug/L	0.50		EPA-8260B	ND		1
Toluene	1.2	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	2.4	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	320	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.5	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	91.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 18:15	IO1	MS-V12	1	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-09	Client Sample Name: 0752, MW-8-W-160211, 2/11/2016 6:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 15:18	IO1	MS-V12	1	BZB1346

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Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-10	Client Sample Name: 0752, A-MW-1-W-160211, 2/11/2016 5:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	86	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	5.6	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	9.4	ug/L	0.50		EPA-8260B	ND		1
Toluene	3.6	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	8.8	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	250	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	74.5	%	75 - 125 (LCL - UCL)		EPA-8260B		S09	1
Toluene-d8 (Surrogate)	92.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 18:33	IO1	MS-V12	1	BZB1346

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Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-11	Client Sample Name: 0752, A-MW-2-W-160211, 2/11/2016 6:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	680	ug/L	5.0		EPA-8260B	ND	A01	1
Ethylbenzene	550	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	1600	ug/L	12		EPA-8260B	ND	A01	2
Toluene	2400	ug/L	12		EPA-8260B	ND	A01	2
Total Xylenes	2200	ug/L	10		EPA-8260B	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	42000	ug/L	1200		Luft-GC/MS	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	80.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	86.7	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	89.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	91.3	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	88.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	88.9	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/17/16 12:04	IO1	MS-V12	10	BZB1346
2	EPA-8260B	02/12/16	02/18/16 13:31	IO1	MS-V12	25	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-12	Client Sample Name: 0752, A-MW-3-W-160211, 2/11/2016 6:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.9	%	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	02/12/16	02/16/16 15:36	IO1	MS-V12	1	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-13	Client Sample Name: 0752, A-MW-5-W-160211, 2/11/2016 5:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	87.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 15:53	IO1	MS-V12	1	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-14	Client Sample Name: 0752, A-MW-7-W-160211, 2/11/2016 6:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	89.5	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	94.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 16:11	IO1	MS-V12	1	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-15	Client Sample Name: 0752, S-MW-1-W-160211, 2/11/2016 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	510	ug/L	5.0		EPA-8260B	ND	A01	1
Ethylbenzene	68	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	1400	ug/L	12		EPA-8260B	ND	A01	2
Toluene	20	ug/L	5.0		EPA-8260B	ND	A01	1
Total Xylenes	72	ug/L	10		EPA-8260B	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	2800	ug/L	500		Luft-GC/MS	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	79.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	81.0	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	92.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	92.2	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/17/16 12:39	IO1	MS-V12	10	BZB1346
2	EPA-8260B	02/12/16	02/18/16 13:49	IO1	MS-V12	25	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-16	Client Sample Name: 0752, S-MW-2-W-160211, 2/11/2016 7:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.6	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 16:29	IO1	MS-V12	1	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-17	Client Sample Name: 0752, S-MW-3-W-160211, 2/11/2016 9:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	0.70	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
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	92.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 16:46	IO1	MS-V12	1	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-18	Client Sample Name: 0752, S-MW-4-W-160211, 2/11/2016 7:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	0.59	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	3.0	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
Total Purgeable Petroleum Hydrocarbons	170	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.5	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 17:04	IO1	MS-V12	1	BZB1346

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-19	Client Sample Name: 0752, S-MW-5-W-160211, 2/11/2016 7:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	820	ug/L	5.0		EPA-8260B	ND	A01	1
Ethylbenzene	130	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	1400	ug/L	12		EPA-8260B	ND	A01	2
Toluene	83	ug/L	5.0		EPA-8260B	ND	A01	1
Total Xylenes	180	ug/L	10		EPA-8260B	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	4300	ug/L	500		Luft-GC/MS	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	84.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	78.9	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	91.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/17/16 12:57	IO1	MS-V12	10	BZB1346
2	EPA-8260B	02/12/16	02/18/16 14:07	IO1	MS-V12	25	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-20	Client Sample Name: 0752, S-MW-6-W-160211, 2/11/2016 8:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	160	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
Total Purgeable Petroleum Hydrocarbons	160	ug/L	50		Luft-GC/MS	ND	A90	1
1,2-Dichloroethane-d4 (Surrogate)	89.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	86.5	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	93.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/17/16 13:32	IO1	MS-V12	1	BZB1346
2	EPA-8260B	02/12/16	02/17/16 13:50	IO1	MS-V12	10	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-21	Client Sample Name: 0752, S-EW-1-W-160211, 2/11/2016 10:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	19	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	1.8	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	160	ug/L	5.0		EPA-8260B	ND	A01	2
Toluene	1.2	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	1.8	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	890	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	86.8	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	93.0	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	88.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/16/16 17:22	IO1	MS-V12	1	BZB1346
2	EPA-8260B	02/12/16	02/17/16 14:07	IO1	MS-V12	10	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1604453-22	Client Sample Name: 0752, MPE-1-W-160211, 2/11/2016 8:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	180	ug/L	5.0		EPA-8260B	ND	A01	1
Ethylbenzene	21	ug/L	0.50		EPA-8260B	ND		2
Methyl t-butyl ether	320	ug/L	5.0		EPA-8260B	ND	A01	1
Toluene	14	ug/L	0.50		EPA-8260B	ND		2
Total Xylenes	24	ug/L	1.0		EPA-8260B	ND		2
Total Purgeable Petroleum Hydrocarbons	1600	ug/L	50		Luft-GC/MS	ND		2
1,2-Dichloroethane-d4 (Surrogate)	85.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	92.7	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	92.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	93.8	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	80.4	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/12/16	02/17/16 14:25	IO1	MS-V12	10	BZB1346
2	EPA-8260B	02/12/16	02/16/16 17:39	IO1	MS-V12	1	BZB1346

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BZB1273

Benzene	BZB1273-BLK1	ND	ug/L	0.50		
Ethylbenzene	BZB1273-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZB1273-BLK1	ND	ug/L	0.50		
Toluene	BZB1273-BLK1	ND	ug/L	0.50		
Total Xylenes	BZB1273-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BZB1273-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BZB1273-BLK1	87.1	%		75 - 125 (LCL - UCL)	
Toluene-d8 (Surrogate)	BZB1273-BLK1	104	%		80 - 120 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BZB1273-BLK1	96.6	%		80 - 120 (LCL - UCL)	

QC Batch ID: BZB1346

Benzene	BZB1346-BLK1	ND	ug/L	0.50		
Ethylbenzene	BZB1346-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZB1346-BLK1	ND	ug/L	0.50		
Toluene	BZB1346-BLK1	ND	ug/L	0.50		
Total Xylenes	BZB1346-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BZB1346-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BZB1346-BLK1	86.4	%		75 - 125 (LCL - UCL)	
Toluene-d8 (Surrogate)	BZB1346-BLK1	97.0	%		80 - 120 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BZB1346-BLK1	98.1	%		80 - 120 (LCL - UCL)	

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZB1273										
Benzene	BZB1273-BS1	LCS	27.160	25.000	ug/L	109		70 - 130		
Toluene	BZB1273-BS1	LCS	31.170	25.000	ug/L	125		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BZB1273-BS1	LCS	10.440	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BZB1273-BS1	LCS	10.270	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BZB1273-BS1	LCS	9.6600	10.000	ug/L	96.6		80 - 120		
QC Batch ID: BZB1346										
Benzene	BZB1346-BS1	LCS	19.870	25.000	ug/L	79.5		70 - 130		
Toluene	BZB1346-BS1	LCS	20.140	25.000	ug/L	80.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BZB1346-BS1	LCS	10.410	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BZB1346-BS1	LCS	9.7800	10.000	ug/L	97.8		80 - 120		
4-Bromofluorobenzene (Surrogate)	BZB1346-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZB1273		Used client sample: N								
Benzene	MS	1603129-39	ND	22.720	25.000	ug/L		90.9		70 - 130
	MSD	1603129-39	ND	22.730	25.000	ug/L	0.0	90.9	20	70 - 130
Toluene	MS	1603129-39	ND	25.300	25.000	ug/L		101		70 - 130
	MSD	1603129-39	ND	26.460	25.000	ug/L	4.5	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1603129-39	ND	8.9300	10.000	ug/L		89.3		75 - 125
	MSD	1603129-39	ND	9.8700	10.000	ug/L	10.0	98.7		75 - 125
Toluene-d8 (Surrogate)	MS	1603129-39	ND	10.300	10.000	ug/L		103		80 - 120
	MSD	1603129-39	ND	10.260	10.000	ug/L	0.4	103		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1603129-39	ND	9.7400	10.000	ug/L		97.4		80 - 120
	MSD	1603129-39	ND	9.9500	10.000	ug/L	2.1	99.5		80 - 120
QC Batch ID: BZB1346		Used client sample: N								
Benzene	MS	1603129-43	ND	21.810	25.000	ug/L		87.2		70 - 130
	MSD	1603129-43	ND	20.210	25.000	ug/L	7.6	80.8	20	70 - 130
Toluene	MS	1603129-43	ND	25.010	25.000	ug/L		100		70 - 130
	MSD	1603129-43	ND	21.550	25.000	ug/L	14.9	86.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1603129-43	ND	9.6900	10.000	ug/L		96.9		75 - 125
	MSD	1603129-43	ND	9.9200	10.000	ug/L	2.3	99.2		75 - 125
Toluene-d8 (Surrogate)	MS	1603129-43	ND	10.170	10.000	ug/L		102		80 - 120
	MSD	1603129-43	ND	10.120	10.000	ug/L	0.5	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1603129-43	ND	9.6600	10.000	ug/L		96.6		80 - 120
	MSD	1603129-43	ND	9.8900	10.000	ug/L	2.4	98.9		80 - 120

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Reported: 02/20/2016 15:06
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A90 TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.