



James P. Kiernan, P.E.
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November 7, 2016

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health 12:46 pm, Nov 08, 2016

Re: Second Half 2016 Semi-Annual Groundwater Monitoring Report
Commingled Plume #0068
706, 726, and 800 Harrison Street, Oakland, California
Fuel Leak Case No.: RO0000484/RO0000321/RO0000231

I have reviewed the attached report dated November 7, 2016.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Arcadis U.S., Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

James P. Kiernan, P.E.
Project Manager

Attachment: Second Half 2016 Semi-Annual Groundwater Monitoring Report by Arcadis

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

Arcadis U.S., Inc.
 2999 Oak Road
 Suite 300
 Walnut Creek
 California 94596
 Tel 925.274.1100
 Fax 925.274.1103
www.arcadis-us.com

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

ENVIRONMENT

Dear Ms. Soo:

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

Date:
 November 7, 2016

<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. Tamera Rogers of Arcadis at 408.797.2013 or by e-mail at Tamera.Rogers@arcadis.com.

Our ref:
 B0047339.2016

Sincerely,

Arcadis U.S., Inc.



Tamera Rogers
Project Manager



Katherine Brandt, P.G.
Senior Geologist



Copies:

Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, California 94612 (Geotracker)
 Mr. James Kiernan, EMC (electronic copy only)

Ms Kit Soo
November 7, 2016

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-ANNUAL GROUNDWATER MONITORING REPORT
THIRD QUARTER 2016
November 7, 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. Kit Soo
/ Case No. RO0000231

WORK PERFORMED DURING THIS REPORTING PERIOD (Third and Fourth Quarter – 2016):

1. Gettler-Ryan, Inc. (G-R) conducted groundwater monitoring and sampling on August 19, 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 located at 800 Harrison Street, five (5) wells associated with 706 Harrison Street (GIN), and nine (9) 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. Wells 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 8260B-GC/MS; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), and methyl tert-butyl ether (MTBE) by EPA Method 8260B.

The site location map, site plan, and the groundwater elevation contour map are presented on **Figures 1 through 3**, respectively. Concentration maps for TPPH, benzene, and MTBE are on **Figures 4 through 6**, respectively. 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. 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.

Arcadis and EMC met with the new ACEH caseworker on August 30, 2016 to review the site history and status. In accordance with the approved Remedial Action Plan (RAP) and RAP Addendum, installation of an Air Sparge/Soil Vapor Extraction (AS/SVE) system is planned to address the elevated concentrations at 706 and 726 Harrison Street. Negotiations continue with the property owner at 706 Harrison Street for installation of the system. The wells on the three sites will be resurveyed following system installation.

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (First and Second Quarter – 2017):

1. Perform groundwater monitoring and related reporting.
2. Begin installation of an AS/SVE system upon completing site access negotiations with the property owner at 706 Harrison Street.

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>

UNION OIL OF CALIFORNIA
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
THIRD QUARTER 2016
November 7, 2016

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

Bulk Soil Removed to Date: Approximately 550 cubic yards

Bulk Soil Removed this Quarter: None

Water Wells or Surface Waters within a 2000' Radius and Their Respective Directions:

There are no surface bodies of water within a 2000' radius of the site. San Francisco Bay is located approximately 3000' southwest of the site.

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

Current Remediation Techniques: None (planned AS/SVE)

Permits for Discharge (No.): None

Approximate Depth to Groundwater (at Unocal 0752 and 726 Harrison Street): 18.42 (Unocal 0752 MW-6) – 26.58 (726 Harrison Street MW-6) feet below top of casing

Measured X Estimated

7.95 (726 Harrison Street MW-6) – 17.34 (Unocal 0752 MW-2) feet relative to mean sea level

Measured X Estimated

16.60 (MW-5) – 18.22 (MW-2) feet below top of casing

Measured X Estimated

11.27 (MW-1) – 12.31 (MW-2) feet relative to mean sea level

Measured X 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-ANNUAL GROUNDWATER MONITORING REPORT
THIRD QUARTER 2016
November 7, 2016**

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

DISCUSSION:

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

706 Harrison Street:

The maximum dissolved concentrations of TPPH (47,000 micrograms per liter [$\mu\text{g}/\text{L}$]), benzene (1,400 $\mu\text{g}/\text{L}$), toluene (3,100 $\mu\text{g}/\text{L}$), ethylbenzene (1,500 $\mu\text{g}/\text{L}$), total xylenes (8,700 $\mu\text{g}/\text{L}$), and MTBE (3,600 $\mu\text{g}/\text{L}$) were detected in the sample collected from MW-2. The current TPPH concentration in MW-2 was the highest to date in this well.

726 Harrison Street:

The maximum dissolved concentrations of TPPH (13,000 $\mu\text{g}/\text{L}$), benzene (2,100 $\mu\text{g}/\text{L}$), toluene (200 $\mu\text{g}/\text{L}$), ethylbenzene (350 $\mu\text{g}/\text{L}$), total xylenes (640 $\mu\text{g}/\text{L}$) and MTBE (4,500 $\mu\text{g}/\text{L}$) were detected in the sample collected from MW-5. The TPPH and BTEX concentrations in MPE-1 were the highest in this well to date. Conversely, the current MTBE concentration in MW-6 was the lowest to date.

800 Harrison Street:

The maximum dissolved concentrations of TPPH (1,300 $\mu\text{g}/\text{L}$), ethylbenzene (2.1 $\mu\text{g}/\text{L}$), and MTBE (46 $\mu\text{g}/\text{L}$) were detected in the sample collected from MW-3. The maximum dissolved concentration of benzene (16 $\mu\text{g}/\text{L}$) was detected in the sample collected from MW-7. The maximum dissolved concentrations of toluene (2.2 $\mu\text{g}/\text{L}$) and total xylenes (5.4 $\mu\text{g}/\text{L}$) were detected in the sample collected from MW-5. The current MTBE concentration in MW-3 was the lowest to date in this well.

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

CONCLUSIONS AND RECOMMENDATIONS:

TPPH, BTEX, and MTBE concentrations at 726 and 706 Harrison Street generally increased from the first quarter 2016 monitoring event. However, the current concentrations were within the historical ranges with the exception of TPPH and BTEX in MPE-1 at 726 Harrison and TPPH in MW-2 at 706 Harrison which were historical highs, and MTBE in MW-6 at 726 Harrison which was a historical low. The current concentrations at 800 Harrison Street were similar to those during the first quarter 2016 sampling event; however, the current MTBE concentration in MW-3 was the lowest to date in this well. Arcadis recommends continued semi-annual monitoring to further evaluate groundwater quality and concentration trends. In accordance with the approved RAP and RAP Addendum, installation of an AS/SVE system is planned to address the elevated concentrations at 706 and 726 Harrison Street. Negotiations continue with the property owner at 706 Harrison Street for installation of the system.

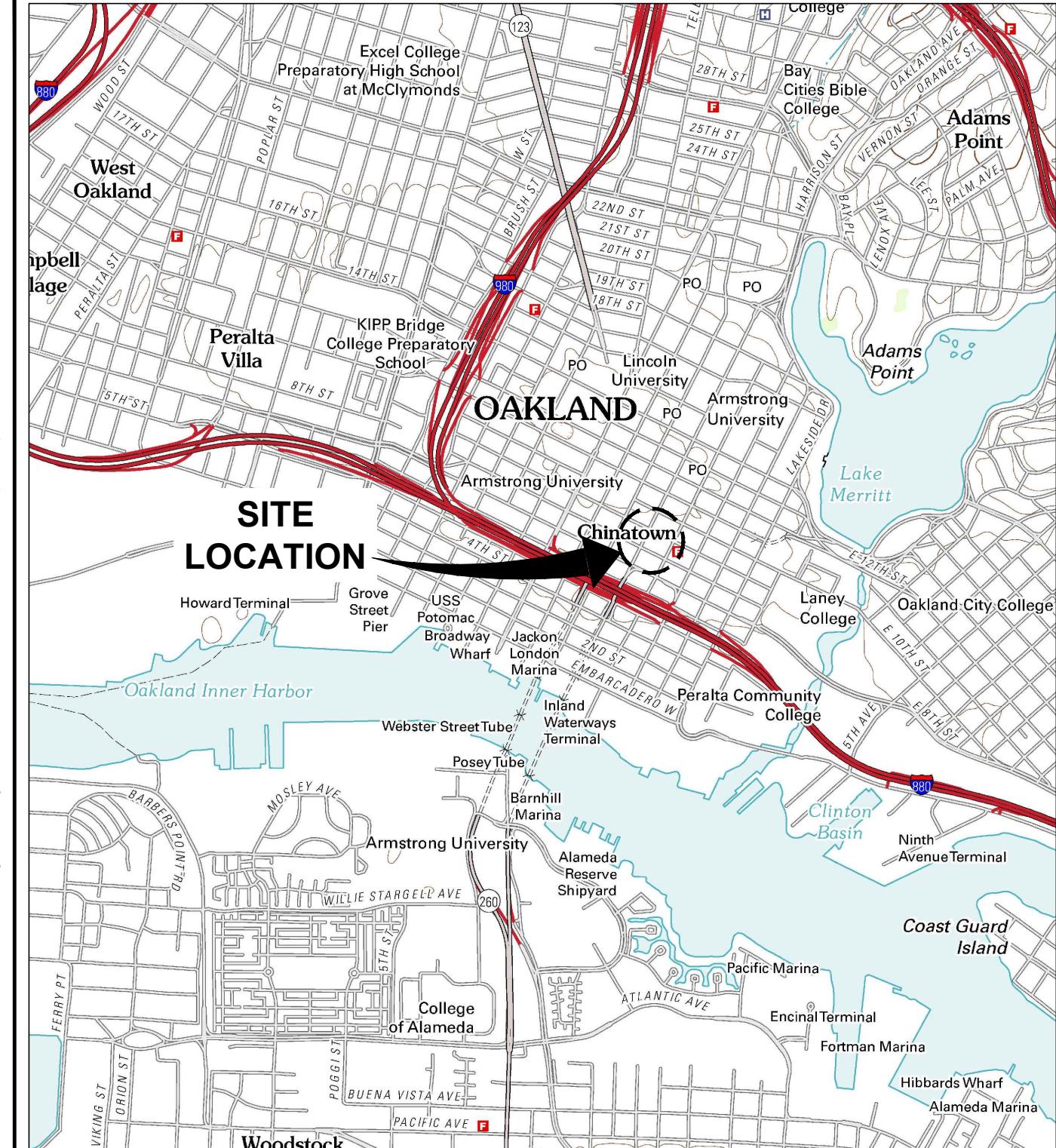
**UNION OIL OF CALIFORNIA
SEMI-ANNUAL GROUNDWATER MONITORING REPORT
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Facility No.: 0752/Yee/Gin Address: 706/726/800 Harrison Street, Oakland, California
Comingled Plume

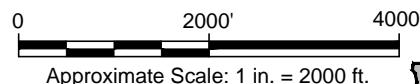
ATTACHMENTS:

- 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 Report and Chain-of-Custody Documentation

Figures



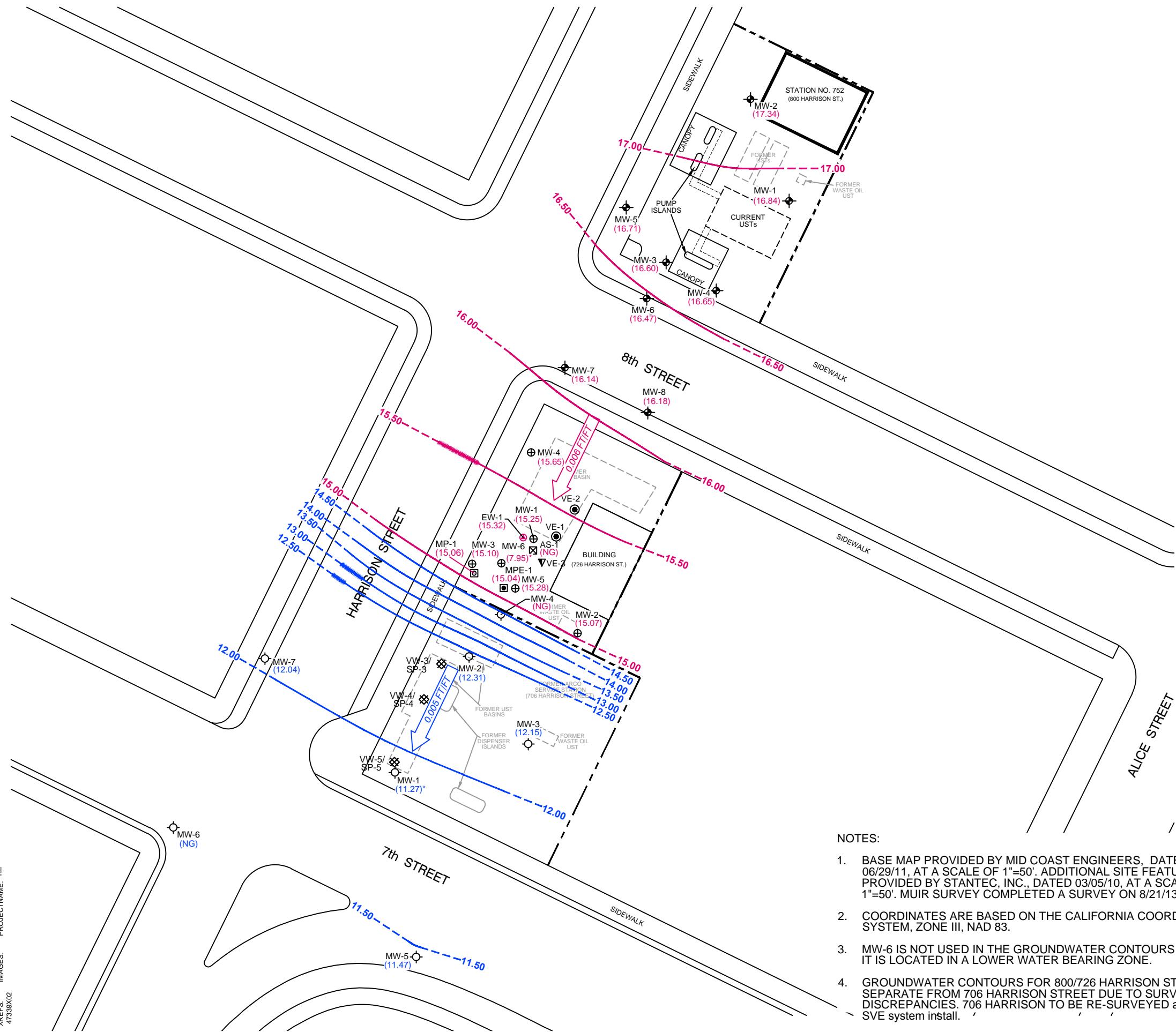
REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 2012.

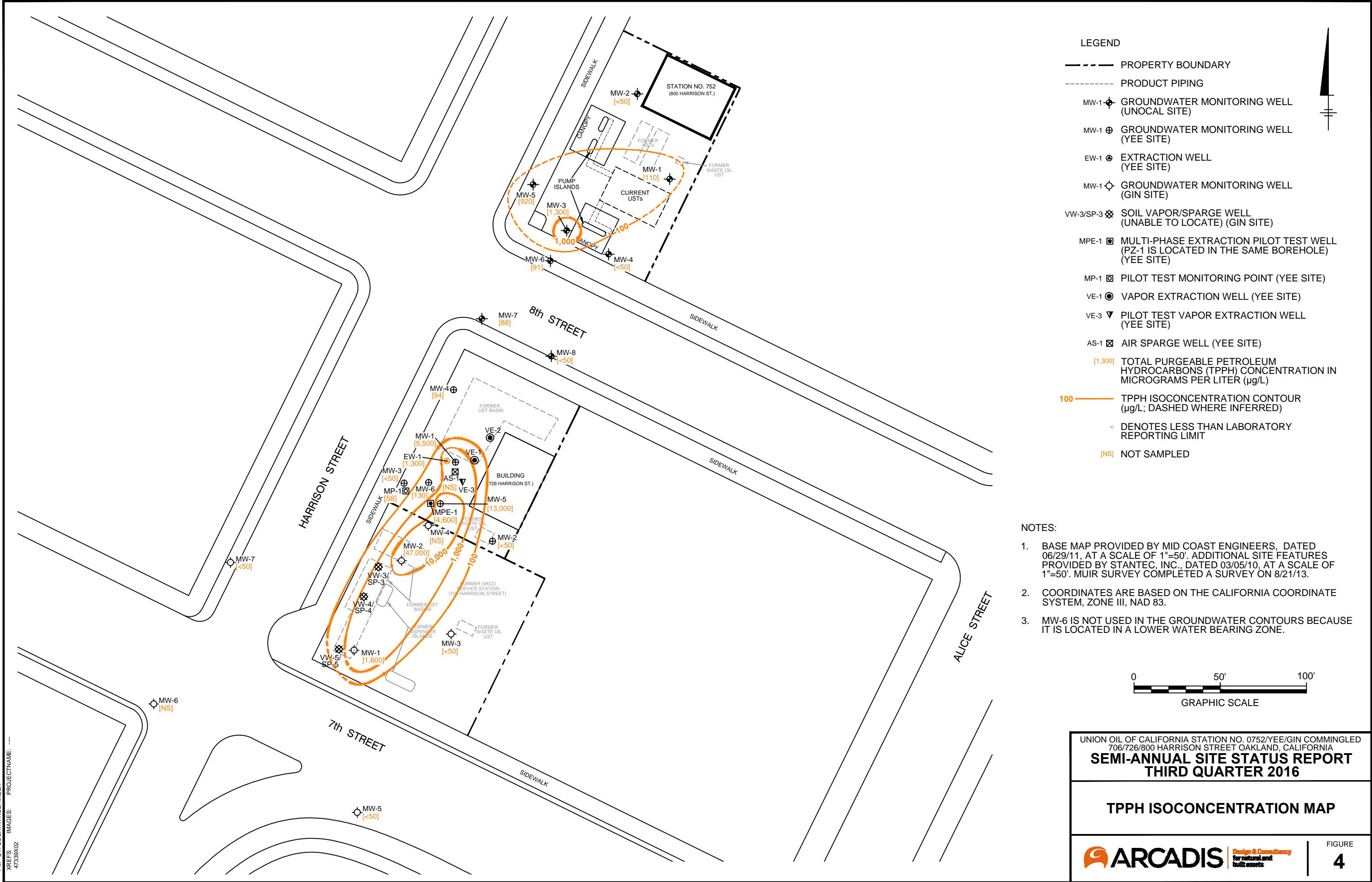


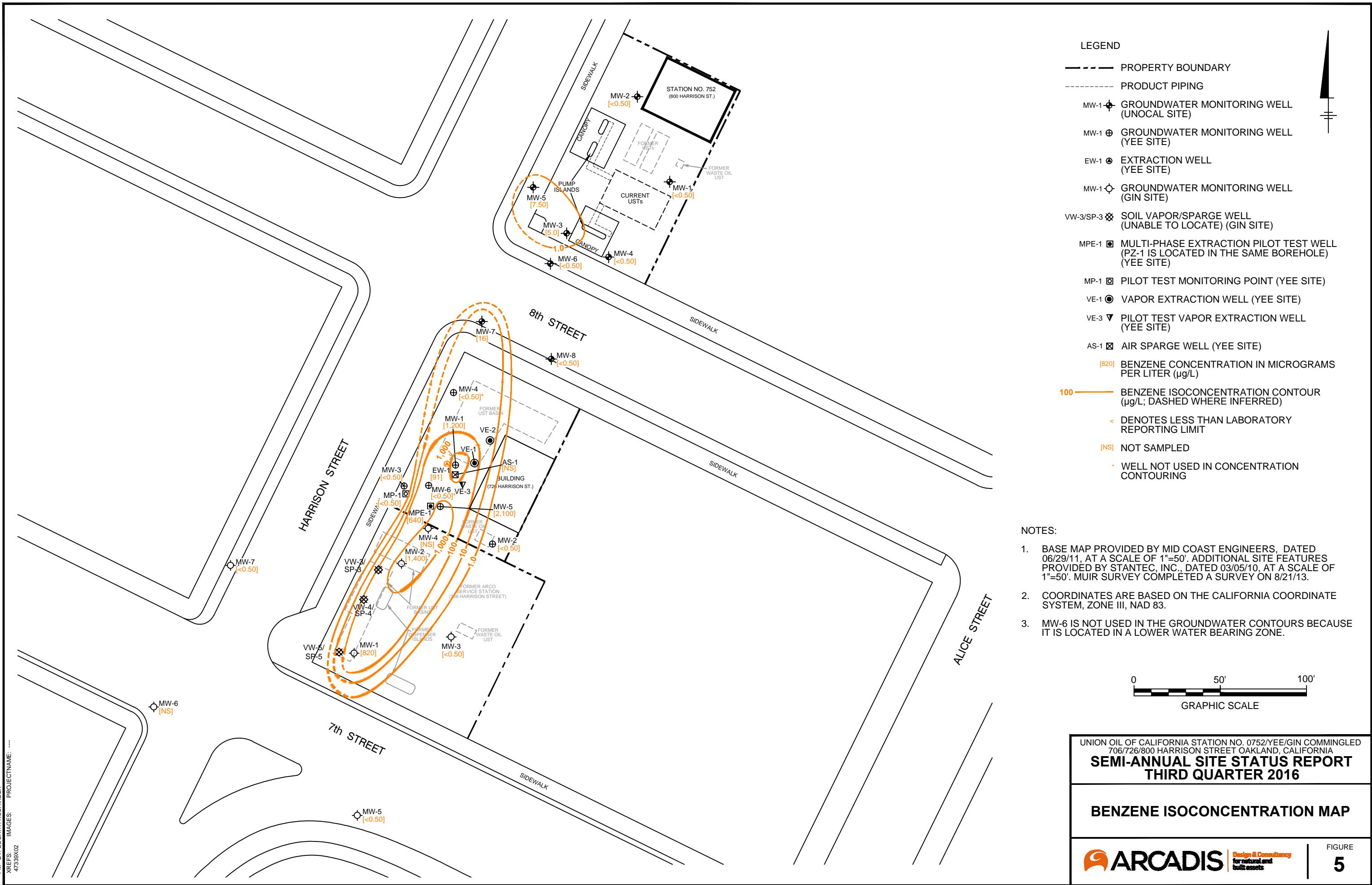
UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

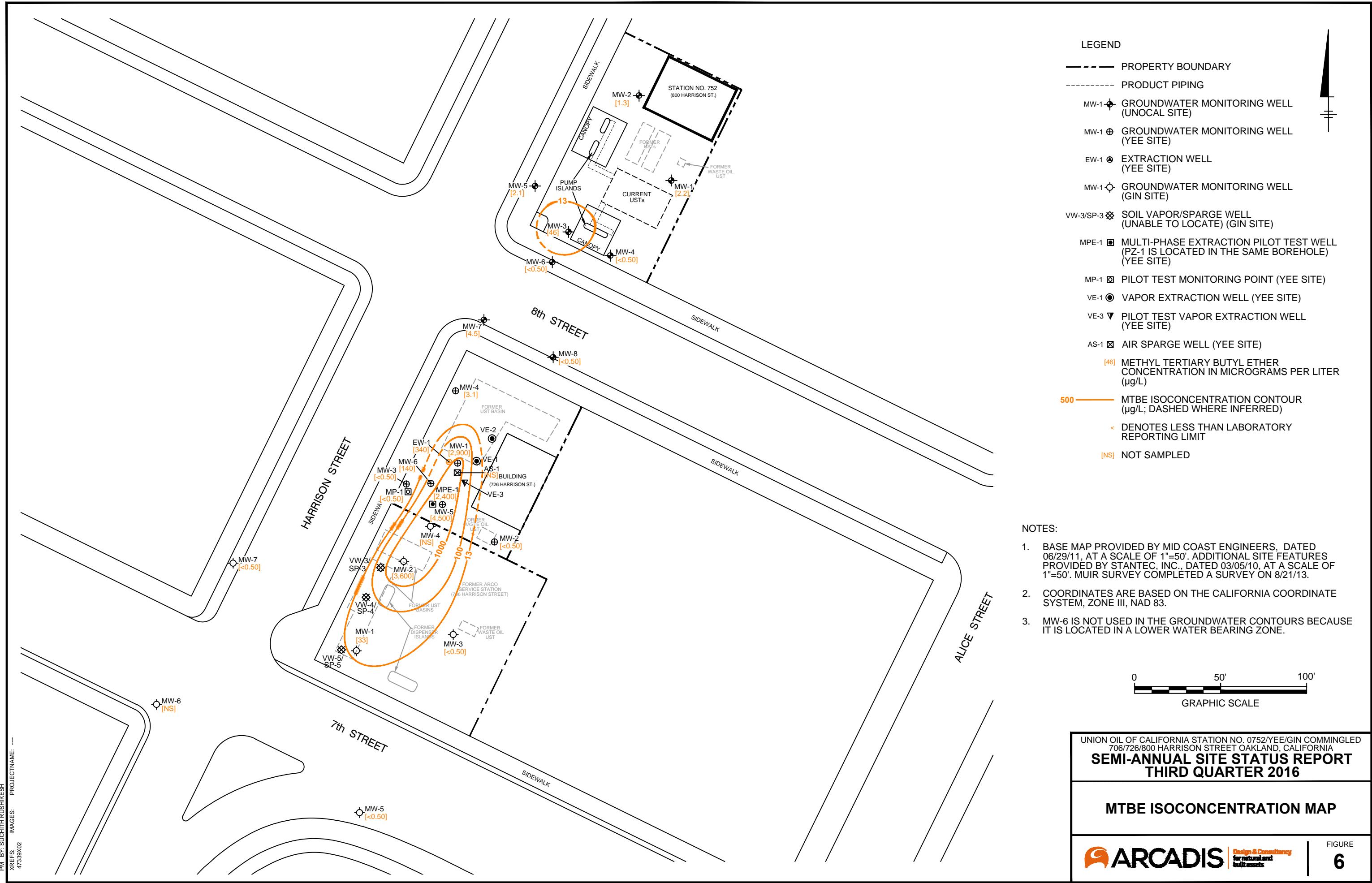
SITE LOCATION MAP











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 (8260B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
800 Harrison Street																	
MW-1	8/19/2016	37.22	20.38	0.00	16.84	17.04	-0.20	110	<0.50	<0.50	<0.50	<1.0	2.2	--	--	--	
MW-2	8/19/2016	37.44	20.10	0.00	17.34	17.45	-0.11	<50	<0.50	<0.50	<0.50	<1.0	1.3	--	--	--	
MW-3	8/19/2016	35.88	19.28	0.00	16.60	16.91	-0.31	1,300	5.0	1.3	2.1	2.4	46	--	--	--	
MW-4	8/19/2016	35.42	18.77	0.00	16.65	16.89	-0.24	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-5	8/19/2016	35.68	18.97	0.00	16.71	16.91	-0.20	920	7.5	2.2	1.1	5.4	2.1	--	--	--	
MW-6	8/19/2016	34.89	18.42	0.00	16.47	16.75	-0.28	91	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-7	8/19/2016	34.92	18.78	0.00	16.14	16.47	-0.33	88	16	0.66	<0.50	<1.0	4.5	--	--	--	
MW-8	8/19/2016	34.73	18.55	0.00	16.18	16.55	-0.37	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
706 Harrison Street																	
MW-1	8/19/2016	29.17	17.90	0.00	11.27	11.80	-0.53	1,600	820	30	12	95	33	--	--	--	
MW-2	8/19/2016	30.53	18.22	0.00	12.31	12.84	-0.53	47,000	1,400	3,100	1,500	8,700	3,600	--	--	--	
MW-3	8/19/2016	29.79	17.64	0.00	12.15	12.79	-0.64	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-4	8/19/2016	31.20	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to access, Parked over	
MW-5	8/19/2016	28.07	16.60	0.00	11.47	12.15	-0.68	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-6	8/19/2016	29.13	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate	
MW-7	8/19/2016	29.70	17.66	0.00	12.04	12.43	-0.39	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
726 Harrison Street																	
AS-1	8/19/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-1	8/19/2016	34.37	19.05	0.00	15.32	15.77	-0.45	1,300	91	3.6	33	20	340	--	--	--	
MP-1	8/19/2016	34.16	19.10	--	15.06	--	--	58	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MPE-1	8/19/2016	34.36	19.32	0.00	15.04	15.53	-0.49	4,600	640	38	110	100	2,400	--	--	--	
MW-1	8/19/2016	34.45	19.20	0.00	15.25	15.62	-0.37	5,500	1,200	23	110	110	2,900	--	--	--	
MW-2	8/19/2016	34.91	19.84	0.00	15.07	15.62	-0.55	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-3	8/19/2016	34.12	19.02	0.00	15.10	15.53	-0.43	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
MW-4	8/19/2016	35.05	19.40	0.00	15.65	16.22	-0.57	94	<0.50	<0.50	<0.50	<1.0	3.1	--	--	--	
MW-5	8/19/2016	34.76	19.48	0.00	15.28	15.78	-0.50	13,000	2,100	200	350	640	4,500	--	--	--	
MW-6	8/19/2016	34.53	26.58	0.00	7.95	8.84	-0.89	130	<0.50	<0.50	<0.50	<1.0	140	--	--	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
TOC	top of casing (surveyed reference elevation)
AMSL	above mean sealevel
DTW	depth to water
btoc	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
GWE	groundwater elevation
GC/MS	gas chromatography–mass spectrometry for TPPH
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
Z1	10ul of antifoamer added to voa

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 (8260B-GC/MS)	Benzene	Toluene	Ethyl-benzene	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	1.1	--	--	--	
MW-1	8/19/2016	37.22	20.38	0.00	16.84	17.04	-0.20	110	<0.50	<0.50	<0.50	<1.0	2.2	--	--	--	
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-2	8/19/2016	37.44	20.10	0.00	17.34	17.45	-0.11	<50	<0.50	<0.50	<0.50	<1.0	1.3	--	--	--	
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	--	
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	
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	
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	
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	
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	2,500	9.3	1.9	3.1	3.7	54	--	--	--	
MW-3	8/19/2016	35.88	19.28	0.00	16.60	16.91	-0.31	1,300	5.0	1.3	2.1	2.4	46	--	--	A01	
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-4	8/19/2016	35.42	18.77	0.00	16.65	16.89	-0.24	<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	--	
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	
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	1.0	2.1	0.8	2.6	<0.50	--	--	--	
MW-5	8/19/2016	35.68	18.97	0.00	16.71	16.91	-0.20	920	7.5	2.2	1.1	5.4	2.1	--	--	--	
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-6	8/19/2016	34.89	18.42	0.00	16.47	16.75	-0.28	91	<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 (8260B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
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	
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	--	--	--	
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	--	--	--	
MW-7	8/19/2016	34.92	18.78	0.00	16.14	16.47	-0.33	88	16	0.7	<0.50	<1.0	4.5	--	--	--	
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	--	--	--	
MW-8	8/19/2016	34.73	18.55	0.00	16.18	16.55	-0.37	<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	--	
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	
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	
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	--	--	--	
MW-1	8/19/2016	29.17	17.90	0.00	11.27	11.80	-0.53	1,600	820	30	12	95	33	--	--	--	
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	--	
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	<50	<50	<25,000	
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	<50	1.0	<250	
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	
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	
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-2	8/19/2016	30.53	18.22	0.00	12.31	12.84	-0.53	47,000	1,400	3,100	1,500	8,700	3,600	--	--	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	--	
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	--	--	--	
MW-3	8/19/2016	29.79	17.64	0.00	12.15	12.79	-0.64	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
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	--	
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	
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	
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-4	8/19/2016	31.20	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car	

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 (8260B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
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	<0.50	--	--	--	
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-5	8/19/2016	28.07	16.60	0.00	11.47	12.15	-0.68	<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-6	8/19/2016	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	--	--	--	
MW-7	8/19/2016	29.70	17.66	0.00	12.04	12.43	-0.39	<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
SP-3	8/19/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
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-4	8/19/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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
SP-5	8/19/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	Sampled	Date	Elevation (feet)	TOC (feet btoc)	DTW (feet)	LPH Thickness (feet)	GW Elevation (feet AMSL)	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8260B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AS-1	8/19/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EW-1	2/27/2013	*--	18.17	0.00	*--	--	960	180	6.0	3.6	12	170	<0.50	<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	<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	--	--	--			
EW-1	8/19/2016	34.37	19.05	0.00	15.32	15.77	-0.45	1,300	91	3.6	33.0	20.0	340	--	--	--	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	<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	<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	--	--	--	Parked Car		
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MP-1	8/19/2016	34.16	19.10	--	15.06	--	--	58	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	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	<0.50	<250		
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	<0.50	<250		
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		
MPE-1	8/19/2016	34.36	19.32	0.00	15.04	15.53	-0.49	4,600	640	38	110	100	2,400	--	--	--	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	<0.50	--		
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	<0.50	--		
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	<0.50	<250		
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	<0.50	<250		
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		
MW-1	8/19/2016	34.45	19.20	0.00	15.25	15.62	-0.37	5,500	1200	23	110	110	2,900	--	--	--	A01		
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	<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	<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	<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	<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	<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-2	8/19/2016	34.91	19.84	0.00	15.07	15.62	-0.55	<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 (8260B-GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
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	0.7	--	--	--	
MW-3	8/19/2016	34.12	19.02	0.00	15.10	15.53	-0.43	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
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-4	8/19/2016	35.05	19.40	0.00	15.65	16.22	-0.57	94	<0.50	<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-5	8/19/2016	34.76	19.48	0.00	15.28	15.78	-0.50	13,000	2,100	200	350	640	4,500	--	--	--	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
MW-6	8/19/2016	34.53	26.58	0.00	7.95	8.84	-0.89	130	<0.50	<0.50	<0.50	<1.0	140	--	--	--	A01, A90

Table 2
Historical 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 calculator located from 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 surveyed
<	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
J	estimated value
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 a "gasoline" pattern, TPPH is entirely due to MTBE
S05	the sample holding time was exceeded
S09	the surrogate recovery on the sample was not within the control limits

Analytes

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

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 CaCO ₃	Nitrate as NO ₃	Nitrite as NO ₂	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 CaCO ₃	Nitrate as NO ₃	Nitrite as NO ₂	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 CaCO ₃	Nitrate as NO ₃	Nitrite as NO ₂	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

CaCO ₃	calcium carbonate
NO ₃	nitrate
NO ₂	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

Revised: October 19, 2016

August 26, 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 Second Semi-Annual Event of August 19, 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

800 Harrison Street

Oakland, CA

Job #: 385647

Event Date:

Sampler

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			2S	OK			N	N	monks / 8 1/2	
A-MW-3	OK			3S	PK			1		BL / 8 1/3	
A-MW-2	OK			3S	OK					Brahad / 8 1/3	
MP-1	OK									Tencor / 12 1/2	
MPE-1	OK										↓
SMW-5	OK			2S	OK					monks / 12 1/2	
S-MW-2	OK			2S	OK			1	↓	monks / 8 1/2	
A-MW-4	-			UTA							
SP-3				UTL							
SP-4				UTL							
SP-5				UTL							

Comments

WELL CONDITION STATUS SHEET

**Client/
Facility #:**

Chevron #351646 / 0752

800 Harrison Street

Oakland, CA

Job #: 385647

Event Date:

8/19/16

三

WELL CONDITION STATUS SHEET

**Client/
Facility #:**

Chevron #351646 / 0752

800 Harrison Street

Oakland, CA

Job #: 385647

Event Date:

Sampler: FC

10

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. Total well depths are measured annually.

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: **8.19.16** (inclusive)
 Sampler: **FT**

Well ID: **MW-1**
 Well Diameter: **1 1/2 / 4 / 6 in.**
 Total Depth: **33.44 ft.**
 Depth to Water: **20.38 ft.**

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

Check if water column is less than 0.50 ft.
 $13.06 \times VF .17 = 2.22$ x3 case volume = Estimated Purge Volume: **7.0** gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **22.99**

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): **0705**
 Sample Time/Date: **0729 / 8.19.16**
 Approx. Flow Rate: **/** gpm.
 Did well de-water? **No** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **20.93**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity $\mu\text{S} / \text{mS}$ $\mu\text{mhos/cm}$	Temperature ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0710	2.5	6.55	114	19.9	PRE: 1.7	PRE: -18	PRE: 198
0715	5.0	6.58	122	19.5			
0719	7.0	6.61	131	19.3	POST: 1.6	POST: -28	POST: 217

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
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 8.19.16 (inclusive)
 Sampler: FT

Well ID: MW-2
 Well Diameter: 1 1/2" / 4 1/2" in.
 Total Depth: 30.73 ft.
 Depth to Water: 20.10 ft.

Date Monitored: 8.19.16

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

Check if water column is less than 0.50 ft.

10.63 xVF .17 = 1.80 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 23.27

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:	litr
Amt Removed from Well:	litr
Water Removed:	litr

Start Time (purge): 0628 Weather Conditions: Fog
 Sample Time/Date: 0648 / 8.19.16 Water Color: CLEAR Odor: Y / NO
 Approx. Flow Rate: 1 gpm. Sediment Description: none
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.92

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μs) mS $\mu\text{mhos/cm}$)	Temperature ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0631</u>	<u>1.5</u>	<u>6.70</u>	<u>200</u>	<u>20.0</u>	<u>PRE: 2.1</u>	<u>PRE: -51</u>	<u>PRE: 70</u>
<u>0634</u>	<u>3.0</u>	<u>6.73</u>	<u>210</u>	<u>19.8</u>			
<u>0638</u>	<u>5.0</u>	<u>6.75</u>	<u>218</u>	<u>19.5</u>	<u>POST: 1.9</u>	<u>POST: -64</u>	<u>POST: 79</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3 x voa 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: 8.19.16 (inclusive)
 Sampler: FT

Well ID MW-3Date Monitored: 8.19.16Well Diameter 1 1/2 / 4 1/2 in.

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

Total Depth 30.45 ft.Depth to Water 19.28 ft. Check if water column is less than 0.50 ft.11.17 xVF .17 = 1.89 x3 case volume = Estimated Purge Volume: 6.0 gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.51

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): 0935Weather Conditions: FOLSample Time/Date: 0958 / 8.19.16Water Color: LT. BAY. Odor: O / N STRONGApprox. Flow Rate: gpm.Sediment Description: S. SILTYDid well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (15 mS μmhos/cm)	Temperature (0 / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY PPM
<u>0939</u>	<u>2.0</u>	<u>6.68</u>	<u>420</u>	<u>19.9</u>	<u>PRE: 1.5</u>	<u>PRE: ~65</u>	<u>PRE: 206</u>
<u>0943</u>	<u>4.0</u>	<u>6.71</u>	<u>431</u>	<u>19.6</u>	<u> </u>	<u> </u>	<u> </u>
<u>0947</u>	<u>6.0</u>	<u>6.73</u>	<u>439</u>	<u>19.3</u>	<u>POST: 1.3</u>	<u>POST: -77</u>	<u>POST: 238</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x voa 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: **8.19.16** (inclusive)
 Sampler: **PT**

Well ID: **MW-4**

Date Monitored: **8.19.16**

Well Diameter: **1 1/2 / 4 / 6** in.

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

Total Depth: **32.01** ft.

Depth to Water: **18.77** ft.

Check if water column is less than 0.50 ft.

13.24 xVF **.17** = **2.25** x3 case volume = Estimated Purge Volume: **7.0** gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **21.41**

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): **0823**

Sample Time/Date: **0847 18.19.16**

Approx. Flow Rate: **1** gpm.

Did well de-water? **No** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **19.05**

Weather Conditions:

Water Color: **Brown.** Odor: Y / N

Sediment Description: **S. Silty**

FOL

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (MS mS μmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0828	2.5	6.78	284	20.5	PRE: 1.9	PRE: 16	PRE: 241
0833	5.0	6.81	210	20.1			
0837	7.0	6.84	298	19.9	POST: 1.8	POST: 28	POST: 263

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	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
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 8.19.16 (inclusive)
 Sampler: FT

Well ID: MW-5
 Well Diameter: 1 1/2" / 4 1/2" in.
 Total Depth: 31.55 ft.
 Depth to Water: 18.97 ft.
12.58 xVF .17 = 2.13

Date Monitored: 8.19.16

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

Check if water column is less than 0.50 ft.
 $xVF \cdot .17 = 2.13$ x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.48

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:	Itr
Amt Removed from Well:	Itr
Water Removed:	Itr

Start Time (purge): 0900
 Sample Time/Date: 0922 / 8.19.16
 Approx. Flow Rate: / gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity <u>115</u> mS <u>µmhos/cm</u>	Temperature <u>60</u> / F	D.O. (mg/L)	ORP (mV)	TURBIDITY <u>NTU</u>
<u>0904</u>	<u>2.0</u>	<u>6.69</u>	<u>408</u>	<u>20.5</u>	<u>PRE: 1.6</u>	<u>PRE: -58</u>	<u>PRE: 195</u>
<u>0908</u>	<u>4.0</u>	<u>6.71</u>	<u>413</u>	<u>20.2</u>			
<u>0912</u>	<u>6.0</u>	<u>6.74</u>	<u>426</u>	<u>19.8</u>	<u>POST: 1.5</u>	<u>POST: -67</u>	<u>POST: 215</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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8-19-16** (inclusive)
 Sampler: **Ft**

Well ID: **MW-6**
 Well Diameter: **11 1/4 / 16 in.**
 Total Depth: **30.84 ft.**
 Depth to Water: **18.42 ft.**

Date Monitored: **8-19-16**

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

Check if water column is less than 0.50 ft.

12.42 xVF **.17** = **2.11** x3 case volume = Estimated Purge Volume: **6.0** gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **20.90**

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): **0745**

Weather Conditions:

FDL

Sample Time/Date: **0808 / 8-19-16**

Water Color: **Brown** Odor: **Y / NO**

Approx. Flow Rate: **/** gpm.

Sediment Description:

S. SILTY

Did well de-water? **NO** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **19.01**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (15 mS μmhos/cm)	Temperature (10 / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY N/21
0749	2.0	6.73	178	20.8	PRE: 2.2	PRE: -17	PRE: 225
0753	4.0	6.76	184	20.4			
0757	6.0	6.78	192	20.1	POST: 1.9	POST: -28	POST: 242

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
Mw-6	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
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 8.19.16 (inclusive)
 Sampler: FT

Well ID: MW-7
 Well Diameter: 1 1/2 / 4 / 6 in.
 Total Depth: 31.35 ft.
 Depth to Water: 18.78 ft.

Date Monitored: 8.19.16

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.

12.57 xVF .17 = 2.13 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.29

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): 0545

Weather Conditions:

Sample Time/Date: 0608 / 8.19.16

Water Color: Brown Odor: Y / N

Approx. Flow Rate: / gpm.

Sediment Description: S. Silty

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity <u>µS</u> / mS µmhos/cm)	Temperature (<u>°C</u> / <u>F</u>)	D.O. (mg/L)	ORP (mV)	TURBIDITY <u>NTU</u>
<u>0549</u>	<u>2.0</u>	<u>6.61</u>	<u>248</u>	<u>19.9</u>	<u>PRE: 1.9</u>	<u>PRE: -21</u>	<u>PRE: 181</u>
<u>0553</u>	<u>4.0</u>	<u>6.63</u>	<u>254</u>	<u>19.7</u>			
<u>0557</u>	<u>6.0</u>	<u>6.67</u>	<u>260</u>	<u>19.5</u>	<u>POST: 1.8</u>	<u>POST: -31</u>	<u>POST: 193</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: _____

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: 8.19.16 (inclusive)
 Sampler: FT

Well ID: MW-8
 Well Diameter: 1 1/2 in.
 Total Depth: 26.33 ft.
 Depth to Water: 18.55 ft.

Date Monitored: 8.19.16

Volume Factor (VF)	3/4" = 0.02 4" = 0.66	1" = 0.04 5" = 1.02	2" = 0.17 6" = 1.50	3" = 0.38 12" = 5.80
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Check if water column is less than 0.50 ft.

7.78 xVF .7 = 1.32 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.10

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): 0510

Weather Conditions:

Fog

Sample Time/Date: 0530 18.19.16

Water Color: LT. Brn, Odor: Y/O

Approx. Flow Rate: — gpm.

Sediment Description:

S. SILTY

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity μS / mS μmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY mT
<u>0513</u>	<u>1.5</u>	<u>6.64</u>	<u>256</u>	<u>20.7</u>	<u>PRE: 1.8</u>	<u>PRE: -46</u>	<u>POST: 175</u>
<u>0516</u>	<u>3.0</u>	<u>6.67</u>	<u>262</u>	<u>20.5</u>			
<u>0519</u>	<u>4.0</u>	<u>6.69</u>	<u>269</u>	<u>20.4</u>	<u>POST: 1.7</u>	<u>POST: -53</u>	<u>POST: 188</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</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: **8/19/16** (inclusive)
 Sampler: **AW**

Well ID: **A-MW-1**
 Well Diameter: **11 1/4 / 6 in.**
 Total Depth: **24.40 ft.**
 Depth to Water: **17.90 ft.**

Date Monitored: **8-19-16**

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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Check if water column is less than 0.50 ft.

$6.50 \times VF .17 = 1.10$ x3 case volume = Estimated Purge Volume: **3.5 gal.**

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **19.20**

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:	litr
Amt Removed from Well:	litr
Water Removed:	litr

Start Time (purge): **0500**
 Sample Time/Date: **0525 / 8-19-16**
 Approx. Flow Rate: **— gpm.**
 Did well de-water? **~** If yes, Time: **—** Volume: **— gal.** DTW @ Sampling: **18.78**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0505	1.6	7.44	435	18.7	PRE: 1.2	PRE: 70	PRE: 304
0510	2.5	7.49	470	18.9			
0515	3.5	7.52	488	19.1	POST: 1.4	POST: 89	POST: 330

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8-19-16** (inclusive)
 Sampler: **An**

Well ID **A-MW-2**Date Monitored: **8-19-16**Well Diameter **1 1/2 / 4 / 6 in.**Total Depth **24.86 ft.**Depth to Water **18.22 ft.**Depth to Water **6.64 ft.**xVF **.17** = **1.12**Check if water column is less than 0.50 ft.
x3 case volume = Estimated Purge Volume: **3.5 gal.**Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **19.54**

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**Sample Time/Date: **0640 / 8-19-16**Approx. Flow Rate: **— gpm.**Did well de-water? **✓** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **19.22**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{s}/\text{mS}$ $\mu\text{mhos/cm}$)	Temperature ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0620	1.5	7.01	466	20.0	PRE: 1.0	PRE: 27	PRE: 278
0625	2.5	7.06	504	20.3			
0630	3.5	7.11	533	20.4	POST: 1.2	POST: 44	POST: 299

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8-19-16** (inclusive)
 Sampler: **AH**

Well ID **A-MW-3**Date Monitored: **8-19-16**Well Diameter **1 1/2 / 4 / 6 in.**Total Depth **27.27 ft.**Depth to Water **17.64 ft.**

9-63

xVF **.17**= **1.63** Check if water column is less than 0.50 ft.x3 case volume = Estimated Purge Volume: **5.0** gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **19.56****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): **0535**Sample Time/Date: **0605 / 8-19-16**Approx. Flow Rate: **— gpm.**Did well de-water? **N** If yes, Time: **—** Volume: **—** gal. DTW @ Sampling: **18.85**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{s}/\text{mS}$ $\mu\text{mhos/cm}$)	Temperature ($^{\circ}\text{C}$ $^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0540	2.0	7.73	234	19.7	PRE: 1.3	PRE: 15	PRE: 299
0545	4.0	7.69	259	19.8			
0550	5.0	7.66	275	19.9	POST: 1.3	POST: 44	POST: 316

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-MW-3	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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8-19-6** (inclusive)
 Sampler: **AW**

Well ID **A-MW-4**Date Monitored: **8-19-6**Well Diameter **1 1/2 / 4 / 6** in.

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

Depth to Water _____ ft.

 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 (μ S / mS μ mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
_____	_____	_____	_____	_____	PRE:	PRE:	PRE:
_____	_____	_____	_____	_____	POST:	POST:	POST:
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			

LABORATORY INFORMATION

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

COMMENTS: *Unable to access, Parked over, unable to locate owner of vehicle.*

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: **8/16/16** (inclusive)
 Sampler: **JH**

Well ID: **A-MW-5**
 Well Diameter: **1 1/2** in.
 Total Depth: **28.16** ft.
 Depth to Water: **16.60** ft.
11.56 xVF **.17** = **1.96**

Date Monitored: **8/16/16**

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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Check if water column is less than 0.50 ft.
xVF .17 = 1.96 x3 case volume = Estimated Purge Volume: **5.89** gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **18.91**

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:	litr
Amt Removed from Well:	litr
Water Removed:	litr

Start Time (purge): **0500** Weather Conditions: **Dark**
 Sample Time/Date: **0530 / 8/16/16** Water Color: **Cloudy** Odor: **Y/N**
 Approx. Flow Rate: **—** gpm. Sediment Description: **Ls Hr**
 Did well de-water? **No** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **17.84**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{s}/\text{mS}$ $\mu\text{mhos/cm}$)	Temperature ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0505	2	7.38	570	18.9	PRE: 1.5	PRE: 77	PRE: 43.1
0510	4	7.31	543	18.7			
0515	6	7.24	536	18.6	POST: 1.2	POST: 63	POST: 71.2

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-mw5	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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8/18/16** (inclusive)
 Sampler: **JH**

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

Date Monitored: **8/18/16**

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.

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 ($\mu\text{S} / \text{mS}$ $\mu\text{mhos/cm}$)	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: **CTL D/o**

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: **8/19/16** (inclusive)
 Sampler: **JH**

Well ID **A-MW-7**Date Monitored: **8/19/16**Well Diameter **11 1/4 / 16** in.

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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Total Depth **27.60** ft.Depth to Water **17.66** ft. Check if water column is less than 0.50 ft.**9.94** xVF **.17** = **1.68** x3 case volume = Estimated Purge Volume: **5.06** gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **19.64****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: **0610 / 8/19/16**Water Color: **clear** Odor: **Y / O**Approx. Flow Rate: **-** gpm.Sediment Description: **none**Did well de-water? **No** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **18.40**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (15 / mS μmhos/cm)	Temperature (65 / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0544	1.5	7.11	528	18.7	PRE: 1.3	PRE: 34	PRE: 39.1
0548	3.0	7.03	505	18.6			
0552	5.0	6.87	489	18.5	POST: 1.0	POST: 60	POST: 60.5

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-MW-7	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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8-19-16** (inclusive)
 Sampler: **BW**

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

Date Monitored: _____

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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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 (μ S / mS μ mhos/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: Vnable to locate

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: **8-19-16** (inclusive)
 Sampler: **KW**

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

Date Monitored: **—**

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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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 (μ S / mS μ hos/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 vial	YES	HCL	BC LABS	TPPH(8260)/BTEX+MTBE(8260)

COMMENTS: **unable to locate**

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: **8-19-1b** (inclusive)
 Sampler: **RW**

Well ID: **SP-5**
 Well Diameter: **1121416 in.**
 Total Depth: **ft.**
 Depth to Water: **ft.**

Date Monitored: **—**

Volume Factor (VF)	3/4" = 0.02 4" = 0.66	1" = 0.04 5" = 1.02	2" = 0.17 6" = 1.50	3" = 0.38 12" = 5.80
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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 (μ S / mS μ mhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
_____	_____	_____	_____	_____	PRE:	PRE:	PRE:
_____	_____	_____	_____	_____	POST:	POST:	POST:
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			
_____	_____	_____	_____	_____			

LABORATORY INFORMATION

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

COMMENTS: **Vnable to locate**

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: **8/19/16** (inclusive)
 Sampler: **JH**

Well ID: **S-MW-1**
 Well Diameter: **11 1/4 / 16** in.
 Total Depth: **27.36** ft.
 Depth to Water: **19.20** ft.
8.16 xVF **.17** = **1.38**

Date Monitored: **8/19/16**

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 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]: **20.83**

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**

Weather Conditions:

Sample Time/Date: **0725 / 8/19/16**

Cloudy

Water Color: **clear** Odor: **Y / @**

Approx. Flow Rate: **—** gpm.

Sediment Description:

Did well de-water? **No** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0659	1.5	7.60	436	18.5	PRE: 1.0	PRE: 39	PRE: 48.5
0703	3.0	7.45	451	18.4			
0708	4.0	7.35	473	18.2	POST: 1.3	POST: 55	POST: 61.7

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8-19-16** (inclusive)
 Sampler: **AW**

Well ID **S-MW-2**Date Monitored: **8-19-16**Well Diameter **1 1/2" 4 1/2 in.**

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

Total Depth **28.00 ft.**Depth to Water **19.64 ft.** Check if water column is less than 0.50 ft.**8.16** xVF **.17** = **1.38** x3 case volume = Estimated Purge Volume: **4.5** gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **21.47****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): **0845**

Weather Conditions:

Sample Time/Date: **0910 / 8-19-16**Water Color: **Cloudy** Odor: Y / NApprox. Flow Rate: **— gpm.**Sediment Description: **Cloudy**Did well de-water? **✓** If yes, Time: **—** Volume: **—** gal. DTW @ Sampling: **21.06**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (150 mS μmhos/cm)	Temperature (60 °F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0850	1.5	7.27	222	19.1	PRE: 1.0	PRE: -29	PRE: 282
0855	3.0	7.35	255	19.3			
0900	4.5	7.39	280	19.4	POST: 1.3	POST: -47	POST: 314

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
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 8/15/16 (inclusive)
 Sampler: JH

Well ID S-MW-3Date Monitored: 8/15/16Well Diameter 11 1/4 / 16 in.Total Depth 26.82 ft.Depth to Water 19.02 ft.Depth to Water 7.80 xVF .17 = 1.32Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.58

Volume Factor (VF)	3/4" = 0.02 4" = 0.66	1" = 0.04 5" = 1.02	2" = 0.17 6" = 1.50	3" = 0.38 12" = 5.80
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 Check if water column is less than 0.50 ft.x3 case volume = Estimated Purge Volume: 3.97 gal.

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): 0815Sample Time/Date: 0845 / 8/15/16Approx. Flow Rate: — gpm.Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.36

Weather Conditions:

Water Color: clear Odor: YY B LishSediment Description: none

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (45 / mS μmhos/cm)	Temperature (0 / F)	D.O. (mg/L)	ORP (mV)	TURIDITY 20
<u>0818</u>	<u>1</u>	<u>7.12</u>	<u>328</u>	<u>18.7</u>	<u>PRE: 1.3</u>	<u>PRE: -22</u>	<u>PRE: 63.5</u>
<u>0821</u>	<u>2.5</u>	<u>7.04</u>	<u>321</u>	<u>18.6</u>			
<u>0825</u>	<u>4.0</u>	<u>7.01</u>	<u>316</u>	<u>18.5</u>	<u>POST: 1.7</u>	<u>POST: -14</u>	<u>POST: 82.2</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-mw-3</u>	<u>3 x voa 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: **8/19/16** (inclusive)
 Sampler: **JH**

Well ID **S-MW-4**Date Monitored: **8/19/16**Well Diameter **110/416** in.

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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Total Depth **29.30** ft.Depth to Water **19.40** ft. Check if water column is less than 0.50 ft.**9.90** xVF **.17** = **1.68** x3 case volume = Estimated Purge Volume: **5.04** gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **21.38****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): **0620**

Weather Conditions:

FoggySample Time/Date: **0645 / 8/19/16**Water Color: **Clean** Odor: **Y/OD**Approx. Flow Rate: **—** gpm.

Sediment Description:

NoneDid well de-water? **NO** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **20.61**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μ S/mS mmhos/cm)	Temperature ($^{\circ}$ F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0624	1.5	6.65	431	18.7	PRE: .8	PRE: 28	PRE: 40.5
0628	3.0	6.61	458	18.6			
0632	4.5	6.39	470	18.5	POST: 1.1	POST: 52	POST: 61.7

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-4	1 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: 8-19-16 (inclusive)
 Sampler: BW

Well ID S-MW-5Date Monitored: 8-19-16Well Diameter 1 1/2" 4 1/2 in.Total Depth 28-86 ft.Depth to Water 19-48 ft.9.38 xVF .17 = 1.59

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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 Check if water column is less than 0.50 ft.x3 case volume = Estimated Purge Volume: 5.0 gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.35

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): 0810

Weather Conditions:

Sample Time/Date: 0835 / 8-19-16Water Color: Clear Odor: O/I N / SlightApprox. Flow Rate: 7 gpm.

Sediment Description:

Did well de-water? at If yes, Time: Volume: gal. DTW @ Sampling: 20.79

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (608 mS μmhos/cm)	Temperature (60 / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0815</u>	<u>2.0</u>	<u>6.87</u>	<u>516</u>	<u>19.1</u>	<u>PRE: 1.1</u>	<u>PRE: -7</u>	<u>PRE: 243</u>
<u>0820</u>	<u>4.0</u>	<u>6.94</u>	<u>552</u>	<u>19.3</u>			
<u>0825</u>	<u>5.0</u>	<u>7.00</u>	<u>577</u>	<u>19.5</u>	<u>POST: 1.3</u>	<u>POST: -18</u>	<u>POST: 279</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-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: **8/19/16** (inclusive)
 Sampler: **JH**

Well ID: **S-MW-6**

Date Monitored: **8/19/16**

Well Diameter: **11 1/4 / 6 in.**

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
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Total Depth: **49.30 ft.**

Depth to Water: **26.58 ft.**

Check if water column is less than 0.50 ft.

22.72 xVF **.17** = **3.86** x3 case volume = Estimated Purge Volume: **11.58** gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **31.12**

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): **0853**

Weather Conditions: **Cloudy**

Sample Time/Date: **0920 / 8/19/16**

Water Color: **Clear** Odor: **Y / @**

Approx. Flow Rate: **2** gpm.

Sediment Description: **none**

Did well de-water?

No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **28.70**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/ mS µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0857	4	7.62	432	18.6	PRE: 1.7	PRE: -53	PRE: 30.6
0859	8	7.28	420	18.5			
0901	12	7.15	423	18.4	POST: 1.9	POST: -39	POST: 5.7

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-6	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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8/19/16** (inclusive)
 Sampler: **JH**

Well ID **S-EW-1**Date Monitored: **8/19/16**Well Diameter **1121416 in.**

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

Total Depth **28.66 ft.**Depth to Water **19.05 ft.** Check if water column is less then 0.50 ft.**9.61** xVF **1.50** = **14.41** x3 case volume = Estimated Purge Volume: **43.24** gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **20.97****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): **0735**Sample Time/Date: **0805 / 8/19/16**Approx. Flow Rate: **2-3** gpm.Did well de-water? **No** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **20.77**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (0 F)	D.O. (mg/L)	ORP (mV)	TURBIDITY ntu
0740	15	7.45	643	18.9	PRE: 1.2	PRE: 45	PRE: 39.6
0745	30	7.31	658	18.8			
0750	44	7.20	671	18.8	POST: 1.5	POST: 73	POST: 68.2

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-EW-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
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 8-19-16 (inclusive)
 Sampler: AW

Well ID: MPE-1
 Well Diameter: 11 1/4" 16 in.
 Total Depth: 32.10 ft.
 Depth to Water: 19.32 ft.

Date Monitored: 8-19-16

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

Check if water column is less than 0.50 ft.

12.78 xVF .66 = 8.43 x3 case volume = Estimated Purge Volume: 25.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.87

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): 0730
 Sample Time/Date: 0800 / 8-19-16
 Approx. Flow Rate: 1-2 gpm.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 21.44

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (0.8 mS umhos/cm)	Temperature (0 / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
<u>0735</u>	<u>8.5</u>	<u>7.07</u>	<u>304</u>	<u>19.0</u>	<u>PRE: 1.4</u>	<u>PRE: -14</u>	<u>PRE: 214</u>
<u>0740</u>	<u>17.0</u>	<u>7.12</u>	<u>328</u>	<u>19.1</u>			
<u>0745</u>	<u>26.5</u>	<u>7.16</u>	<u>344</u>	<u>19.3</u>	<u>POST: 13</u>	<u>POST: -22</u>	<u>POST: 299</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MPE-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**
 Site Address: **800 Harrison Street**
 City: **Oakland, CA**

Job Number: **385647**
 Event Date: **8-19-16** (inclusive)
 Sampler: **pw**

Well ID **KD MP-1**Date Monitored: **8-19-16**Well Diameter **(1) 21416 in.**Total Depth **30.00 ft.**Depth to Water **19.10 ft.**Depth to Water **10.90** xVF **.04** = **0.43**Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: **21.28****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:

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

 Check if water column is less than 0.50 ft.x3 case volume = Estimated Purge Volume: **1.5** gal.

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): **0650**Sample Time/Date: **0720 / 8-19-16**Approx. Flow Rate: **— gpm.**Did well de-water? **N** If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: **20.77**

Time (2400 hr.)	Volume (gal.)	pH	Conductivity 100 mS μmhos/cm)	Temperature 60 F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
0656	0.5	7.06	330	18.9	1.1	PRE: -12	PRE: 359
0702	1.0	7.11	356	19.2			
0710	1.5	7.14	378	19.3	1.3	POST: -28	POST: 411

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Gasket: _____

Add/Replaced Bolt: _____

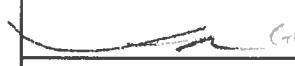
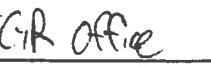
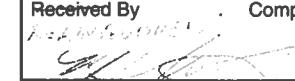
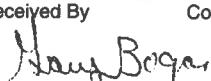
Add/Replaced Lock: _____

Add/Replaced Plug: _____

CHAIN OF CUSTODY FORM

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

COC _____ of _____

Union Oil Site ID: <u>0752</u>				Union Oil Consultant: <u>Arcadis</u>				ANALYSES REQUIRED						
Site Global ID: <u>TG6001D1486</u>				Consultant Contact: <u>Tamara Rogers</u>										
Site Address: <u>900 Harrison St.</u> <u>Oakland CA</u>				Consultant Phone No.: <u>408-797-2013</u>										
Union Oil PM: <u>James Kieran</u>				Sampling Company: <u>Gothic Ryo, Inc.</u>										
Union Oil PM Phone No.: <u>925-790-3955</u>				Sampled By (PRINT): <u>Alex Wong</u>										
Charge Code: NWRTB-0 <u>51646</u> -0-LAB				Sampler Signature: 										
				BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911										
SAMPLE ID				Sample Time		# of Containers		TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS		Notes / Comments
Field Point Name	Matrix	Depth	Date (yymmdd)											
QA	W-S-A		160819	—		2								
MW-1	W-S-A			0729		3						X		
MW-2	W-S-A			0648										
MW-3	W-S-A			0958										
MW-4	W-S-A			0847										
MW-5	W-S-A			0922										
MW-6	W-S-A			0808										
MW-7	W-S-A			0608										
MW-8	W-S-A			0530										
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:		Relinquished By	Company	Date / Time:		Relinquished By	Company	Date / Time:				
	GRINC	160819/1100			CIR office	160819/1100								
Received By	Company	Date / Time:		Received By	Company	Date / Time:		Received By	Company	Date / Time:				
	GRINC	160819/1100			Henry Bogen Belch	8-19-16 1400								

CHAIN OF CUSTODY FORM

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

COC

2 of 2

Union Oil Site ID: 0752				Union Oil Consultant: Aradis	ANALYSES REQUIRED						
Site Global ID: T0000101486				Consultant Contact: Tamia Rogers							
Site Address: 200 Harrison St. Oakland, CA				Consultant Phone No.: 408 - 747 - 2013							
Union Oil PM: James Kieran				Sampling Company: GHLR Ryan Inc.							
Union Oil PM Phone No.: 625 - 740 - 7455				Sampled By (PRINT): APIA Wony							
Charge Code: NWRTB- 0 351 646 -0-LAB				Sampler Signature:							
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY .				BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911							
SAMPLE ID				Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TPH (8260) / BTEX + MTBE (8260)
Field Point Name	Matrix	Depth	Date (yymmdd)	0530	3						
A-MW-5	W-S-A		160819	0610							
A-MW-7	W-S-A			0725							
S-MW-1	W-S-A			0910							
S-MW-2	W-S-A			0845							
S-MW-3	W-S-A			0645							
S-MW-4	W-S-A			0835							
S-MW-5	W-S-A			0920							
S-EW-1	W-S-A			0805							
MPE-1	W-S-A			0800							
MP-1	W-S-A			0720							
	W-S-A			26-0820							
Relinquished By	Company	Date / Time:		Relinquished By	Company	Date / Time:		Relinquished By	Company	Date / Time:	
<i>GR INC</i>	160819 / 1100			<i>GR Office</i>	160819 / 1100						
Received By	Company	Date / Time:		Received By	Company	Date / Time:		Received By	Company	Date / Time:	
<i>Jerry Bogen Bclab</i>	8-19-16 1400										

Attachment B

Historical Groundwater Results from TRC

Table 1A
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	Comments
800 Harrison Street							
MW-1	8/14/2014	0.0035	37	2.0	<0.17	9.4	
MW-2	8/14/2014	0.0060	120	1.0	<0.17	79	
MW-3	8/14/2014	17	450	0.55	<0.17	2.2	
MW-4	8/14/2014	0.0016	84	4.4	<0.17	24	
MW-5	8/14/2014	0.79	170	<0.44	<0.17	<1.0	
MW-6	8/14/2014	<0.0010	140	<0.44	<0.17	25	
MW-7	8/14/2014	0.44	73	<0.44	<0.17	4.3	
MW-8	8/14/2014	0.0059	200	<0.44	<0.17	28	
706 Harrison Street							
MW-1	8/14/2014	--	--	--	--	--	Car Accident
MW-2	8/14/2014	18.0	520	<0.44	<0.17	<1.0	
MW-3	8/14/2014	0.0018	110	38	<0.17	42	
MW-4	8/14/2014	1.6	480	<0.44	<0.17	3.8	
MW-5	8/14/2014	0.0010	160	16	<0.17	55	
MW-6	8/14/2014	<0.0010	150	<0.44	<0.17	36	
MW-7	8/14/2014	0.023	230	<0.44	<0.17	48	
726 Harrison Street							
AS-1	8/14/2014	--	--	--	--	--	
EW-1	8/14/2014	0.57	220	<0.44	<0.17	2.8	
MW-1	8/14/2014	2.0	380	<0.44	<0.17	<1.0	
MW-2	8/14/2014	0.0016	130	47	<0.17	41	
MW-3	8/14/2014	<0.0010	140	<0.44	<0.17	13	
MW-4	8/14/2014	0.21	300	<0.44	<0.17	17	
MW-5	8/14/2014	1.7	440	<0.44	<0.17	<1.0	
MW-6	8/14/2014	0.0015	170	4.3	<0.17	26	

Notes

Analytical results given in milligrams per liter.

Standard Abbreviations

-- not analyzed, measured, or collected
 < not detected at or above laboratory detection limit

Analytes

CaCO3	calcium carbonate
NO3	nitrate
NO2	nitrogen dioxide

Table 1B
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	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-2	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-3	8/14/2014	<10	<10	810	<50	<10	<10	
MW-4	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-5	8/14/2014	<10	<10	160	<50	<10	<10	
MW-6	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-7	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-8	8/14/2014	<10	<10	<50	<50	<10	<10	
706 Harrison Street								
MW-1	8/14/2014	--	--	--	--	--	--	Car Accident
MW-2	8/14/2014	<10	<10	3,600	<50	<10	<10	
MW-3	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-4	8/14/2014	<10	<10	180	<50	<10	<10	
MW-5	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-6	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-7	8/14/2014	<10	<10	1,200	<50	<10	<10	
726 Harrison Street								
AS-1	8/14/2014	--	--	--	--	--	--	
EW-1	8/14/2014	<10	<10	2,600	<50	<10	<10	
MW-1	8/14/2014	<10	<10	1,900	<50	<10	<10	
MW-2	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-3	8/14/2014	<10	<10	<50	<50	<10	<10	
MW-4	8/14/2014	<10	<10	380	<50	<10	<10	
MW-5	8/14/2014	<10	<10	1,200	<50	<10	<10	
MW-6	8/14/2014	<10	<10	<50	<50	<10	<10	

Notes

Analytical results given in micrograms per liter.

Standard Abbreviations

- not analyzed, measured, or collected
- < not detected at or above laboratory detection limit

Attachment C

Laboratory Reports and Chain-of-Custody Documentation



Date of Report: 09/01/2016

Tamera Rogers

Arcadis

6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Client Project: 351646

BCL Project: 0752

BCL Work Order: 1623184

Invoice ID: B245102

Enclosed are the results of analyses for samples received by the laboratory on 8/19/2016. 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

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二

Union Oil Company of California ■ 6101 Bellinor Canyon Road ■ San Ramon, CA 94582
CHAIN OF CUSTODY FORM

CHAIN OF CUSTODY FORM

Union Oil Company of California - 6101 Bellline

Union Oil Site ID: <u>0752</u>		Union Oil Consultant: <u>Arcadis</u>					
Site Global ID: <u>T0600101448</u>		Consultant Contact: <u>Tamara Rogers</u>					
Site Address: <u>300 Hanlon St.</u> <u>Oakland CA</u>		Consultant Phone No.: <u>408-797-2013</u>					
Union Oil PM: <u>James Kierman</u>		Sampling Company: <u>Goddier Ryan Inc.</u>					
Union Oil PM Phone No.: <u>925-790-3985</u>		Sampled By (PRINT): <u>Alex Wong</u>					
Charge Code: NWRTB-0351646-0-LAB		Sampler Signature: <u>Alex Wong</u>					
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.							
SAMPLE ID							
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	Notes / Comments	
Mw-1	N-S-A	-1	160819	-	2		
Mw-2	N-S-A	-3		0729	3		
Mw-3	N-S-A	-4		0648			
Mw-4	N-S-A	-5		0958			
Mw-5	N-S-A	-6		0847			
Mw-6	N-S-A	-7		0922			
Mw-7	N-S-A	-8		0808			
Mw-8	N-S-A	-9		0530			
A-Mw-1	N-S-A	-10		0525			
A-Mw-2	N-S-A	-11		0640			
A-Mw-3	S-A	-12		0605			
Relinquished By	Company	Date / Time:	Received By	Company	Date / Time:	Relinquished By	Company
<u>GRZNC</u>		<u>160819 / 1100</u>	<u>in CIR office</u>		<u>160819 / 1100</u>	<u>Tamara Rogers</u>	<u>Turnaround Time (TAT):</u>
RELINQUISHED:	Company	Date / Time:	Received By	Company	Date / Time:	Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/>	48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>
<u>Seal</u>	<u>Same Date 06-19-16</u>	<u>1400</u>	<u>John Boeger</u>	<u>B-C Lab</u>	<u>8-19-16</u>	<u>1700</u>	<u>Special Instructions</u>
Received By	Company	Date / Time:	Received By	Company	Date / Time:	Received By	Company
<u>GRZNC</u>	<u>BC LAB</u>	<u>8/19/16</u>	<u>John Boeger</u>	<u>B-C Lab</u>	<u>8-19-16</u>	<u>1700</u>	<u>Date / Time:</u>

RECL-
8/19/6 2100 REC: Alan R. Lang 8-19-16 2100

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Chain of Custody and Cooler Receipt Form for 1623184 Page 2 of 5

10-23/04 Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

CHAIN OF CUSTODY FORM

Union Oil Site ID: <u>0752</u>	Union Oil Consultant: <u>Araceli</u>	COC <u>2</u> of <u>2</u>						
Site Global ID: <u>Tobago101436</u>	Consultant Contact: <u>Tanya Reyes</u>							
Site Address: <u>800 Harrison St.</u>	Consultant Phone No.: <u>(925) - 767 - 2013</u>							
Union Oil P.M.: <u>Oakland, CA</u>	Sampling Company: <u>Geffler Ryan Inc.</u>							
Union Oil P.M. Phone No.: <u>(925) - 760 - 3955</u>	Sampled By (PRINT): <u>Jessica Wong</u>							
Charge Code: NWRTB-0351 6460-LAB	Sampler Signature: <u>Jessica Wong</u>							
<i>This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.</i>								
SAMPLE ID	Field Point Name	Matrix	Depth	Date (yyymmdd)	Sample Time	# of Containers	Notes / Comments	
	A-MW-5	W-S-A	-13	160819	0530	3		
	A-MW-7	W-S-A	-14		0610			
	S-MW-1	W-S-A	-15		0725			
	S-MW-2	W-S-A	-16		0910			
	S-MW-3	W-S-A	-17		0845			
	S-MW-4	W-S-A	-18		0645			
	S-MW-5	W-S-A	-19		0835			
	S-MW-6	W-S-A	-20		0920			
	S-EW-1	W-S-A	-21		0805			
	MPE-1	W-S-A	-22		0800			
	MP-1	W-S-A	-23		0720			
Reinquished By	Company	Date / Time:	Received By	Company	Date / Time:	Reinquished By	Company	Date / Time:
<u>John Garcia</u>	<u>160819</u>	<u>1100</u>	<u>CFO office</u>	<u>160819</u>	<u>1100</u>	<u>John Bogen-Belab</u>	<u>8-19-16 / 1700</u>	
Received By REINQUISHED <u>John Bogen Belab</u>	Company	Date / Time:	Received By	Company	Date / Time:	Received By	Company	Date / Time:
<u>John Bogen Belab</u>	<u>8-19-16 1700</u>		<u>John Bogen Belab</u>	<u>8-19-16 1400</u>		<u>John Bogen Belab</u>	<u>8-19-16 17:40</u>	
RCL: <u>John Bogen Belab</u>	8-19-16 2100	REC: <u>John Bogen Belab</u>	8-19-16 2100	RCL: <u>John Bogen Belab</u>	8-19-16 2100	RCL: <u>John Bogen Belab</u>	8-19-16 2100	RCL: <u>John Bogen Belab</u>

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Chain of Custody and Cooler Receipt Form for 1623184 Page 3 of 5

BC LABORATORIES INC.		COOLER RECEIPT FORM								Page <u>1</u> Of <u>3</u>	
Submission #: <u>16-23184</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> <u>(W)</u> / S			
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"/> Comments:								
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 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.98</u>		Container: <u>VOA</u>		Thermometer ID: <u>208</u>		Date/Time <u>8-19-2015</u>			
		Temperature: (A) <u>4.2</u> °C / (C) <u>4.6</u> °C								Analyst Init <u>ARL</u>	
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PTA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK <u>094</u>	<u>AB</u>										
40ml VOA VIAL <u>096</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/608/8080											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 8015M											
QT EPA 8270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments:	<u>JDL</u>										
Sample Numbering Completed By:	<u>JDL</u>										
A = Actual / C = Corrected											
Date/Time: <u>8-22-16 1357</u>	Rev 21 05/23/2016										
[S:\WPDoc\WordPerfect\LAB_DOCKS\FORMS\ISAMRECRev 20]											

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Chain of Custody and Cooler Receipt Form for 1623184 Page 4 of 5

BC LABORATORIES INC.		COOLER RECEIPT FORM								Page <u>2</u> Of <u>3</u>	
Submission #: <u>16-23184</u>											
SHIPPING INFORMATION				SHIPPING CONTAINER				FREE LIQUID			
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>	Box <input type="checkbox"/>	YES <input type="checkbox"/>	NO <input type="checkbox"/>	W / S <input checked="" type="checkbox"/>	Other <input type="checkbox"/> (Specify) _____	
BC Lab Field Service <input checked="" 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"/> Intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Containers <input type="checkbox"/> Intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	None <input checked="" type="checkbox"/> Comments: _____							
All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input type="checkbox"/> No <input type="checkbox"/>							
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.98</u> Container: <u>VOA</u> Thermometer ID: <u>208</u>				Date/Time <u>8-19-2015</u>					
		Temperature: (A) <u>4.2</u> °C / (C) <u>4.6</u> °C				Analyst Init <u>ARL</u>					
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ¹⁶											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL <u>096</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>		
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/608/8080											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 8015M											
QT EPA 8270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments: _____	Date/Time: <u>8-22-16 1357</u>								Rev 21 05/23/2016		
Sample Numbering Completed By: <u>JDL</u>									(S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC\rev 20)		

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Chain of Custody and Cooler Receipt Form for 1623184 Page 5 of 5

BC LABORATORIES INC.		COOLER RECEIPT FORM								Page 3 Of 3	
Submission #: 16-23184											
SHIPPING INFORMATION				SHIPPING CONTAINER				FREE LIQUID			
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>	Box <input type="checkbox"/>	YES <input type="checkbox"/>	NO <input type="checkbox"/>	W <input checked="" type="checkbox"/>	S <input type="checkbox"/>	
BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				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: _____				Comments: _____							
Custody Seals	Ice Chest <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>	Containers <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>	None <input checked="" type="checkbox"/> Comments: _____								
All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/>	All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/>	Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Emissivity: 0.98	Container: VOA	Thermometer ID: 208				Date/Time 8-19-2015				
	Temperature: (A) 4.2 °C / (C) 4.6 °C					Analyst Init. ARL					
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		7.1	7.2	7.3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK	0910	ABC	ABL	ABC							
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/608/8080											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 801SM											
QT EPA 8270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments: _____	JDA				Date/Time: 8-22-16 1357	Rev 21 05/23/2016					
Sample Numbering Completed By: _____					[S:\WPDoc\WordPerfect\LAB\DOCS\FORMS\1SAMREC\rev 20]						

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Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1623184-01	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: QA-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 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:	
1623184-02	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-1-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 07:29 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:	
1623184-03	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-2-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 06:48 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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San Jose, CA 95119

Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1623184-04	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-3-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 09:58 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:
1623184-05	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-4-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 08:47 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:
1623184-06	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-5-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 09:22 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: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1623184-07	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-6-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 08:08 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:		
1623184-08	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-7-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 06:08 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:		
1623184-09	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-8-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 05:30 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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San Jose, CA 95119

Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1623184-10	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-1-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 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:
1623184-11	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-2-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 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:
1623184-12	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-3-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 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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San Jose, CA 95119

Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1623184-13	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-5-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 05:30 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:
1623184-14	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-7-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 06:10 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:
1623184-15	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-1-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 07:25 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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6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1623184-16	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-2-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): S-MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
1623184-17	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-3-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): S-MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
1623184-18	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-4-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 06:45 Sample Depth: --- Lab Matrix: Water 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
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
1623184-19	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-5-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 08:35 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:
1623184-20	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-6-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 09:20 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:
1623184-21	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-EW-1-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 08:05 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
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1623184-22	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MPE-1-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MPE-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
1623184-23	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MP-1-W-160819 Sampled By: GRD	Receive Date: 08/19/2016 21:00 Sampling Date: 08/19/2016 07:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MP-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:	

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-01	Client Sample Name:	0752, QA-W-160819, 8/19/2016 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)	82.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	81.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 16:24	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-02	Client Sample Name: 0752, MW-1-W-160819, 8/19/2016 7:29:00AM						
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	2.2	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	110	ug/L	50	Luft-GC/MS	ND			1
1,2-Dichloroethane-d4 (Surrogate)	81.7	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	80.2	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 16:42	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-03	Client Sample Name: 0752, MW-2-W-160819, 8/19/2016 6:48:00AM						
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	1.3	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)	84.2	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	82.1	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 17:00	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-04	Client Sample Name: 0752, MW-3-W-160819, 8/19/2016 9:58:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	5.0	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	2.1	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	46	ug/L	0.50		EPA-8260B	ND		1
Toluene	1.3	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	2.4	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	1300	ug/L	250		Luft-GC/MS	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	115	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	85.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	124	%	80 - 120 (LCL - UCL)		EPA-8260B		S09	1
4-Bromofluorobenzene (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/29/16	08/30/16 04:34	IO1	MS-V12	1	BZH2237
2	EPA-8260B	08/30/16	08/30/16 18:22	IO1	MS-V12	5	BZH2237

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-05	Client Sample Name:	0752, MW-4-W-160819, 8/19/2016 8:47:00AM					
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)	84.8	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	84.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 17:17	IO1	MS-V12	1	BZH2237

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Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-06	Client Sample Name:	0752, MW-5-W-160819, 8/19/2016 9:22:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	7.5	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	1.1	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	2.1	ug/L	0.50		EPA-8260B	ND		1
Toluene	2.2	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	5.4	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	920	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	80.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	87.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	84.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 21:08	IO1	MS-V12	1	BZH2237

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-07	Client Sample Name: 0752, MW-6-W-160819, 8/19/2016 8:08:00AM						
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	91	ug/L	50	Luft-GC/MS	ND			1
1,2-Dichloroethane-d4 (Surrogate)	78.8	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	80.3	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 17:35	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-08	Client Sample Name: 0752, MW-7-W-160819, 8/19/2016 6:08:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	16	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	4.5	ug/L	0.50		EPA-8260B	ND		1
Toluene	0.66	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	88	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	88.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	84.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 20:32	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-09	Client Sample Name: 0752, MW-8-W-160819, 8/19/2016 5:30:00AM						
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)	86.0	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	76.3	%	80 - 120 (LCL - UCL)	EPA-8260B	S09			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 17:53	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-10	Client Sample Name: 0752, A-MW-1-W-160819, 8/19/2016 5:25:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	820	ug/L	5.0	EPA-8260B	ND	A01		1
Ethylbenzene	12	ug/L	5.0	EPA-8260B	ND	A01		1
Methyl t-butyl ether	33	ug/L	5.0	EPA-8260B	ND	A01		1
Toluene	30	ug/L	5.0	EPA-8260B	ND	A01		1
Total Xylenes	95	ug/L	10	EPA-8260B	ND	A01		1
Total Purgeable Petroleum Hydrocarbons	1600	ug/L	500	Luft-GC/MS	ND	A01		1
1,2-Dichloroethane-d4 (Surrogate)	84.1	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	81.9	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 22:19	IO1	MS-V12	10	BZH2237

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Reported: 09/01/2016 17:19
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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-11	Client Sample Name: 0752, A-MW-2-W-160819, 8/19/2016 6:40:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	1400	ug/L	50	EPA-8260B	ND	A01		1
Ethylbenzene	1500	ug/L	50	EPA-8260B	ND	A01		1
Methyl t-butyl ether	3600	ug/L	50	EPA-8260B	ND	A01		1
Toluene	3100	ug/L	50	EPA-8260B	ND	A01		1
Total Xylenes	8700	ug/L	100	EPA-8260B	ND	A01		1
Total Purgeable Petroleum Hydrocarbons	47000	ug/L	5000	Luft-GC/MS	ND	A01		1
1,2-Dichloroethane-d4 (Surrogate)	85.5	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	82.2	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 22:54	IO1	MS-V12	100	BZH2237

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Reported: 09/01/2016 17:19
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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-12	Client Sample Name:	0752, A-MW-3-W-160819, 8/19/2016 6:05:00AM					
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)	80.6	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	80.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 18:11	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-13	Client Sample Name: 0752, A-MW-5-W-160819, 8/19/2016 5:30:00AM						
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)	83.3	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	84.3	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 18:28	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-14	Client Sample Name:	0752, A-MW-7-W-160819, 8/19/2016 6:10:00AM					
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)	90.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	84.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 18:46	IO1	MS-V12	1	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-15	Client Sample Name: 0752, S-MW-1-W-160819, 8/19/2016 7:25:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	1200	ug/L	25		EPA-8260B	ND	A01	1
Ethylbenzene	110	ug/L	5.0		EPA-8260B	ND	A01	2
Methyl t-butyl ether	2900	ug/L	25		EPA-8260B	ND	A01	1
Toluene	23	ug/L	5.0		EPA-8260B	ND	A01	2
Total Xylenes	110	ug/L	10		EPA-8260B	ND	A01	2
Total Purgeable Petroleum Hydrocarbons	5500	ug/L	500		Luft-GC/MS	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	99.2	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	86.6	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	82.0	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	108	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/30/16 06:37	IO1	MS-V12	50	BZH2237
2	EPA-8260B	08/26/16	08/26/16 22:01	IO1	MS-V12	10	BZH2237

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-16	Client Sample Name: 0752, S-MW-2-W-160819, 8/19/2016 9:10:00AM						
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)	78.2	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	83.9	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 19:04	IO1	MS-V12	1	BZH2237

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

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-17	Client Sample Name: 0752, S-MW-3-W-160819, 8/19/2016 8:45:00AM						
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)	78.9	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	82.2	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	113	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 19:21	IO1	MS-V12	1	BZH2523

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-18	Client Sample Name:	0752, S-MW-4-W-160819, 8/19/2016 6:45:00AM					
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	3.1	ug/L	0.50	EPA-8260B	ND			1
Toluene	ND	ug/L	0.50	EPA-8260B	ND			1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND			1
Total Purgeable Petroleum Hydrocarbons	94	ug/L	50	Luft-GC/MS	ND			1
1,2-Dichloroethane-d4 (Surrogate)	88.9	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	85.3	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 19:39	IO1	MS-V12	1	BZH2523

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-19	Client Sample Name: 0752, S-MW-5-W-160819, 8/19/2016 8:35:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	2100	ug/L	25		EPA-8260B	ND	A01	1
Ethylbenzene	350	ug/L	25		EPA-8260B	ND	A01	1
Methyl t-butyl ether	4500	ug/L	25		EPA-8260B	ND	A01	1
Toluene	200	ug/L	25		EPA-8260B	ND	A01	1
Total Xylenes	640	ug/L	50		EPA-8260B	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	13000	ug/L	2500		Luft-GC/MS	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	86.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	80.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 22:37	IO1	MS-V12	50	BZH2523

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Reported: 09/01/2016 17:19
Project: 0752
Project Number: 351646
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-20	Client Sample Name: 0752, S-MW-6-W-160819, 8/19/2016 9:20:00AM						
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	140	ug/L	2.5	EPA-8260B	ND	A01		2
Toluene	ND	ug/L	0.50	EPA-8260B	ND			1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND			1
Total Purgeable Petroleum Hydrocarbons	130	ug/L	50	Luft-GC/MS	ND	A90		1
1,2-Dichloroethane-d4 (Surrogate)	90.4	%	75 - 125 (LCL - UCL)	EPA-8260B				1
1,2-Dichloroethane-d4 (Surrogate)	95.9	%	75 - 125 (LCL - UCL)	EPA-8260B				2
Toluene-d8 (Surrogate)	82.7	%	80 - 120 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	93.7	%	80 - 120 (LCL - UCL)	EPA-8260B				2
4-Bromofluorobenzene (Surrogate)	108	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	94.3	%	80 - 120 (LCL - UCL)	EPA-8260B				2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 19:57	IO1	MS-V12	1	BZH2523
2	EPA-8260B	08/26/16	08/30/16 06:02	IO1	MS-V12	5	BZH2523

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Reported: 09/01/2016 17:19
Project: 0752
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Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-21	Client Sample Name: 0752, S-EW-1-W-160819, 8/19/2016 8:05:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	91	ug/L	2.5		EPA-8260B	ND	A01	1
Ethylbenzene	33	ug/L	0.50		EPA-8260B	ND		2
Methyl t-butyl ether	340	ug/L	2.5		EPA-8260B	ND	A01	1
Toluene	3.6	ug/L	0.50		EPA-8260B	ND		2
Total Xylenes	20	ug/L	1.0		EPA-8260B	ND		2
Total Purgeable Petroleum Hydrocarbons	1300	ug/L	50		Luft-GC/MS	ND		2
1,2-Dichloroethane-d4 (Surrogate)	87.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	89.3	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	81.2	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	92.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/30/16 05:44	IO1	MS-V12	5	BZH2523
2	EPA-8260B	08/26/16	08/26/16 20:51	IO1	MS-V12	1	BZH2523

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Reported: 09/01/2016 17:19
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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-22	Client Sample Name: 0752, MPE-1-W-160819, 8/19/2016 8:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	640	ug/L	5.0		EPA-8260B	ND	A01	1
Ethylbenzene	110	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	2400	ug/L	25		EPA-8260B	ND	A01,Z1	2
Toluene	38	ug/L	5.0		EPA-8260B	ND	A01	1
Total Xylenes	100	ug/L	10		EPA-8260B	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	4600	ug/L	500		Luft-GC/MS	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	87.6	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	98.3	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	81.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	81.0	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 21:26	IO1	MS-V12	10	BZH2523
2	EPA-8260B	08/26/16	08/30/16 06:20	IO1	MS-V12	50	BZH2523

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Reported: 09/01/2016 17:19
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Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	1623184-23	Client Sample Name: 0752, MP-1-W-160819, 8/19/2016 7:20:00AM						
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	58	ug/L	50	Luft-GC/MS	ND			1
1,2-Dichloroethane-d4 (Surrogate)	88.2	%	75 - 125 (LCL - UCL)	EPA-8260B				1
Toluene-d8 (Surrogate)	83.1	%	80 - 120 (LCL - UCL)	EPA-8260B				1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)	EPA-8260B				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/26/16	08/26/16 20:15	IO1	MS-V12	1	BZH2523

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZH2237						
Benzene	BZH2237-BLK1	ND	ug/L	0.50		
Ethylbenzene	BZH2237-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZH2237-BLK1	ND	ug/L	0.50		
Toluene	BZH2237-BLK1	ND	ug/L	0.50		
Total Xylenes	BZH2237-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BZH2237-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BZH2237-BLK1	81.6	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BZH2237-BLK1	82.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BZH2237-BLK1	104	%	80 - 120 (LCL - UCL)		
QC Batch ID: BZH2523						
Benzene	BZH2523-BLK1	ND	ug/L	0.50		
Ethylbenzene	BZH2523-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZH2523-BLK1	ND	ug/L	0.50		
Toluene	BZH2523-BLK1	ND	ug/L	0.50		
Total Xylenes	BZH2523-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BZH2523-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BZH2523-BLK1	86.2	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BZH2523-BLK1	83.8	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BZH2523-BLK1	106	%	80 - 120 (LCL - UCL)		

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Reported: 09/01/2016 17:19
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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
QC Batch ID: BZH2237									
Benzene	BZH2237-BS1	LCS	32.320	25.000	ug/L	129		70 - 130	
Toluene	BZH2237-BS1	LCS	25.510	25.000	ug/L	102		70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BZH2237-BS1	LCS	9.3700	10.000	ug/L	93.7		75 - 125	
Toluene-d8 (Surrogate)	BZH2237-BS1	LCS	8.7000	10.000	ug/L	87.0		80 - 120	
4-Bromofluorobenzene (Surrogate)	BZH2237-BS1	LCS	10.510	10.000	ug/L	105		80 - 120	
QC Batch ID: BZH2523									
Benzene	BZH2523-BS1	LCS	28.090	25.000	ug/L	112		70 - 130	
Toluene	BZH2523-BS1	LCS	21.760	25.000	ug/L	87.0		70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BZH2523-BS1	LCS	9.0800	10.000	ug/L	90.8		75 - 125	
Toluene-d8 (Surrogate)	BZH2523-BS1	LCS	8.4600	10.000	ug/L	84.6		80 - 120	
4-Bromofluorobenzene (Surrogate)	BZH2523-BS1	LCS	10.530	10.000	ug/L	105		80 - 120	

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Reported: 09/01/2016 17:19
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			
								Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZH2237		Used client sample: N									
Benzene	MS	1621392-55	ND	31.130	25.000	ug/L		125		70 - 130	
	MSD	1621392-55	ND	28.250	25.000	ug/L	9.7	113	20	70 - 130	
Toluene	MS	1621392-55	ND	25.320	25.000	ug/L		101		70 - 130	
	MSD	1621392-55	ND	23.580	25.000	ug/L	7.1	94.3	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1621392-55	ND	8.2700	10.000	ug/L		82.7		75 - 125	
	MSD	1621392-55	ND	8.8100	10.000	ug/L	6.3	88.1		75 - 125	
Toluene-d8 (Surrogate)	MS	1621392-55	ND	8.7200	10.000	ug/L		87.2		80 - 120	
	MSD	1621392-55	ND	8.6700	10.000	ug/L	0.6	86.7		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1621392-55	ND	10.490	10.000	ug/L		105		80 - 120	
	MSD	1621392-55	ND	9.6900	10.000	ug/L	7.9	96.9		80 - 120	
QC Batch ID: BZH2523		Used client sample: N									
Benzene	MS	1621392-80	ND	31.810	25.000	ug/L		127		70 - 130	
	MSD	1621392-80	ND	31.480	25.000	ug/L	1.0	126	20	70 - 130	
Toluene	MS	1621392-80	ND	23.280	25.000	ug/L		93.1		70 - 130	
	MSD	1621392-80	ND	22.710	25.000	ug/L	2.5	90.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1621392-80	ND	9.2400	10.000	ug/L		92.4		75 - 125	
	MSD	1621392-80	ND	9.1000	10.000	ug/L	1.5	91.0		75 - 125	
Toluene-d8 (Surrogate)	MS	1621392-80	ND	8.2900	10.000	ug/L		82.9		80 - 120	
	MSD	1621392-80	ND	8.0800	10.000	ug/L	2.6	80.8		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1621392-80	ND	10.270	10.000	ug/L		103		80 - 120	
	MSD	1621392-80	ND	10.490	10.000	ug/L	2.1	105		80 - 120	

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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Reported: 09/01/2016 17:19
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.
Z1	10ul of antifoamer added to voa