



James P. Kiernan, P.E.
Project Manager

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April 6, 2017

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

RECEIVED

By Alameda County Environmental Health 8:49 am, Apr 11, 2017

Re: Unocal No. 5781 (351640)
Quarterly Status Report – First Quarter 2017
3535 Pierson Street, Oakland, California
Fuel Leak Case No.: RO0000253
GeoTracker Global ID #T0600101467

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

The information in this report is accurate to the best of my knowledge. This report was prepared by Arcadis, upon whose assistance and advice I have relied.

Sincerely,

A handwritten signature in blue ink, appearing to read "J. Kiernan", written over a horizontal line.

James P. Kiernan, P.E.
Project Manager

Attachment: Quarterly Status Report – First Quarter 2017 by Arcadis

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

ENVIRONMENT

Subject:
Quarterly Status Report, First Quarter 2017

Dear Mr. Nowell,

Date:
April 10, 2017

On behalf of Chevron Environmental Management Company's (CEMC's) affiliate, Union Oil Company of California (Union Oil), Arcadis has prepared the attached *Quarterly Status Report, First Quarter 2017* for the following facility:

Contact:
Tamera Rogers

<u>76 Station No.</u>	<u>Case No.</u>	<u>Location</u>
Unocal #5781	RO0000253	3535 Pierson Street Oakland, CA

Phone:
408.797.2013

Email:
Tamera.Rogers@arcadis.com

If you have any questions, please do not hesitate to contact me.

Our ref:
B0035135.1640

Sincerely,

Arcadis U.S., Inc.



Tamera Rogers
Project Manager



Katherine Brandt, P.G.
Senior Geologist



Copies:

Geotracker Database
Mr. James Kiernan, CEMC (electronic)
Dr. Delong Liu, United Brothers Enterprise Inc. (2501 North Main Street, Walnut Creek, CA 94597)
Mr. Ed Ralston, Phillips 66 (electronic)

**QUARTERLY STATUS REPORT
First Quarter 2017
April 10, 2017**

Facility No:	<u>Unocal #5781</u>	Address:	<u>3535 Pierson Street, Oakland, CA</u>
Arcadis Contact Person / Phone No.:	<u>Tamera Rogers / (408) 797-2013</u>		
Arcadis Project No.:	<u>B0035135.1640</u>		
Primary Agency/Regulatory ID No.:	<u>Alameda County LOP Case # RO0000253: Keith Nowell / San Francisco Bay RWQCB (Region 2) – Case # 01-1592</u>		

WORK CONDUCTED THIS QUARTER [First Quarter 2017]:

1. Conducted quarterly groundwater monitoring activities on February 10, 2017.
2. Prepared the *Quarterly Status Report, First Quarter 2017*.
3. Submitted *Offsite Investigation Work Plan* on January 24, 2017 and a revised figure on March 10, 2017.

WORK PROPOSED NEXT PERIOD [Second and Third Quarter 2017]:

1. Conduct semi-annual groundwater monitoring activities.
2. Prepare the *Semi-Annual Status Report, Second Half 2017*.
3. Implement offsite investigation upon receipt of approval by ACDEH.

Current Phase of Project:	<u>Monitoring/assessment</u>	
Frequency of Monitoring / Sampling:	<u>Quarterly (moving to semi-annual)</u>	
Are Phase Separate Hydrocarbons (PSH) Present On-site:	<u>No</u>	
Cumulative PSH Recovered to Date:	<u>None</u>	(gallons)
Approximate Depth to Groundwater:	<u>9.60 to 15.98</u>	(feet below top of casing)
Approximate Groundwater Elevation:	<u>138.81 to 144.11</u>	(feet above mean sea level)
Groundwater Flow Direction	<u>East-Northeast</u>	

Groundwater Gradient	0.046	(foot per foot)
Current Remediation Techniques:	None	
Permits for Discharge:	N/A	
Summary of Unusual Activity:	N/A	
Agency Directive Requirements:	Conditional Work Plan Approval	

DISCUSSION

Gettler-Ryan, Inc. (G-R) conducted semi-annual groundwater monitoring activities on February 10, 2017. Field data sheets and general procedures are included as Attachment A. Seven (7) monitoring wells (MW-A and MW-4 through MW-9) were gauged, purged, and sampled by G-R representatives.

Groundwater samples were submitted to BC Laboratories, Inc. of Bakersfield, California under standard chain-of-custody protocols. Gauging and analytical data obtained by G-R for this event are summarized in Table 1. Historical gauging and analytical data for the site are summarized in Table 2 and included as Attachment B. The site location map and site plan are presented as Figures 1 and 2, respectively; the groundwater elevation contour map for the site on February 10, 2017 is presented as Figure 3. Isoconcentration contours (where applicable) for total petroleum hydrocarbons as gasoline (TPH-g), benzene, methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA) are presented on Figures 4 through 7, respectively. Groundwater flow direction rose diagrams are presented on Figures 8 (AECOM events) and 9 (Arcadis events). A copy of the laboratory analytical report and chain-of-custody documentation are included as Attachment C. Figure 3 from the Quarterly Status Report – Fourth Quarter 2016 was revised and is included as Attachment D.

The direction of groundwater flow, calculated gradient, and analytical results were generally consistent with previous monitoring events. Residual dissolved petroleum hydrocarbons are primarily limited to on-site monitoring well MW-5, and overall are declining. Analytical results indicated that total petroleum hydrocarbons as diesel (TPH-d) (690 micrograms per liter [µg/L]), TPH-g (2,100 µg/L), ethylbenzene (9.1 µg/L), and total xylenes (12 µg/L) were detected in the groundwater sample collected from MW-5. The TPH-d and TPH-g concentrations in MW-5 significantly decreased from the previous event. Only a low concentration of MTBE (0.93 µg/L) was detected in MW-4, and only a low concentration of TPH-d (60 µg/L) was detected in MW-9. The detected concentrations were within the historical ranges. No other

constituents of concern (COCs) were detected above laboratory reporting limits in any of the wells during this sampling event.

Arcadis recommends continued groundwater monitoring to further evaluate groundwater quality and concentration trends. However, as discussed in the previous report, we plan to implement a semi-annual sampling frequency (first and third quarters) in accordance with the July 24, 2009 Alameda County Environmental Health directive (Attachment E) beginning with the next event.

LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Arcadis' contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Arcadis. To the extent that this report is based on information provided to Arcadis by third parties, Arcadis may have made efforts to verify this third party information, but Arcadis cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Arcadis.



Katherine Brandt

Date: April 10, 2017

Katherine Brandt, P.G.
Senior Geologist

Tamera Rogers

Date: April 10, 2017

Tamera Rogers
Project Manager

ATTACHMENTS:

Table 1	Current Groundwater Gauging and Analytical Results
Table 2	Historical Groundwater Gauging and Analytical Results, Fourth Quarter 1990 to Current
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map
Figure 4	TPH-g Isoconcentration Map
Figure 5	Benzene Concentration Map
Figure 6	MTBE Concentration Map
Figure 7	TBA Concentration Map
Figure 8	Historical Groundwater Flow Direction Rose Diagram (AECOM Events)
Figure 9	Groundwater Flow Direction Rose Diagram (Arcadis Events)
Attachment A	Field Data Sheets and General Procedures
Attachment B	Historical Groundwater Analytical Data
Attachment C	Laboratory Report and Chain-of-Custody Documentation
Attachment D	Revised Figure 3, Quarterly Status Report - Fourth Quarter 2016
Attachment E	ACDEH Correspondence

TABLES



Table 1. Current Groundwater Gauging and Analytical Results

Union Oil Company of California
 Unocal No. 5781 (351640)
 3535 Pierson Street, Oakland, California

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	GW Elev (ft amsl)	TPH-d (µg/L)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)
MW-A	2/10/2017	154.79	15.98	138.81	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-4	2/10/2017	153.48	9.80	143.68	<50	<50	<0.50	<0.50	<0.50	<1.0	0.93	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-5	2/10/2017	153.66	10.93	142.73	690	2,100	<0.50	<0.50	9.1	12	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-6	2/10/2017	154.62	11.25	143.37	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-7	2/10/2017	155.38	11.32	144.06	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-8	2/10/2017	153.71	9.60	144.11	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-9	2/10/2017	153.37	9.79	143.58	60	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
QA	2/10/2017	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250

Notes:

MW = Groundwater monitoring well
 TOC = Top of casing
 ft amsl = Feet above mean sea level
 DTW = Depth to groundwater
 ft bTOC = Feet below top of casing
 -- = Not sampled/not measured
 ft = Feet
 Samples analyzed by EPA Method 8260B:
 GW Elev = Groundwater elevation
 µg/L = Micrograms per liter
Bold = Value exceeds laboratory reporting limits
 <0.50 = Not detected at or above the laboratory detection limit
 TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Environmental Protection Agency (EPA) Method 8015
 TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according to EPA Method 8015M with Silica Gel Cleanup
 Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)
 MTBE = Methyl tert-butyl ether
 TBA = Tert-butanol or tertiary butyl alcohol
 EDB = 1,2-Dibromoethane
 EDC = 1,2-Dichloroethane
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tert-butyl ether
 TAME = Tert-amyl methyl ether
 Ethanol

Table 2. Historical Groundwater Gauging and Analytical Results

Fourth Quarter 1990 to Current

Union Oil Company of California
 Unocal No. 5781 (351640)
 3535 Pierson Street
 Oakland, California

Well ID	Sample Date	TOC (ft amsl)	DTW (ft bTOC)	PSH thickness (ft)	PSH recovered (gal)	GW Elev (ft amsl)	TPH-d (µg/L)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments	
MW-A	12/18/1990	--	--	--	--	--	73	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	5/3/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	8/7/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	11/8/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/6/1992	151.80	19.88	0	0	131.92	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	8/4/1992	151.80	18.95	0	0	132.85	ND	ND	ND	ND	ND	0.51	--	--	--	--	--	--	--	--	--	
	2/10/1993	151.80	17.71	0	0	134.09	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/10/1994	151.80	15.25	0	0	136.55	ND	ND	ND	0.52	ND	0.92	--	--	--	--	--	--	--	--	--	
	2/9/1995	151.80	15.68	0	0	136.12	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	
	2/6/1996	151.80	12.52	0	0	139.28	120	ND	ND	ND	ND	2.1	--	--	--	--	--	--	--	--	--	
	2/5/1997	151.80	13.01	0	0	138.79	61	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	2/2/1998	151.80	11.91	0	0	139.89	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	2/22/1999	151.80	11.24	0	0	140.56	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	
	2/26/2000	151.80	12.16	0	0	139.64	ND	ND	ND	1.01	ND	ND	ND	--	--	--	--	--	--	--	--	
	3/7/2001	151.80	11.91	0	0	139.89	131	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2/22/2002	151.80	14.08	0	0	137.72	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	
	2/22/2003	151.80	14.41	0	0	137.39	93	<50	<0.50	<0.50	<0.50	<0.50	<2.0	<100	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	<500	
	2/3/2004	151.80	14.32	0	0	137.48	60	<50	<0.50	<0.50	<0.50	<0.50	<2.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	
	2/18/2005	151.80	14.21	0	0	137.59	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	3/29/2006	151.80	12.72	0	0	139.08	<200	<50	<0.30	<0.30	<0.30	<0.60	0.54	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	3/28/2007	151.80	13.98	0	0	137.82	92	<50	<0.30	<0.30	<0.30	<0.60	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	3/22/2008	151.80	12.68	0	0	139.12	<50	<50	<0.30	<0.30	<0.30	<0.60	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	3/27/2009	151.80	14.35	0	0	137.45	53	<50	<0.30	<0.30	<0.30	<0.60	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	3/23/2010	151.80	19.55	0	0	132.25	<58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2010	154.79	17.85	0	0	136.94	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	9/29/2010	154.79	15.50	0	0	139.29	<1200	<50	<0.50	<0.50	<0.50	<1.0	0.63	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	12/21/2010	154.79	14.43	0	0	140.36	<50	<50	<0.50	<0.50	<0.50	<1.0	0.65	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	3/10/2011	154.79	17.70	0	0	137.09	<50	<50	<0.50	<0.50	<0.50	<1.0	0.56	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	06/07/2011	154.79	13.92	0	0	140.87	<40	<50	<0.50	<0.50	<0.50	<1.0	0.57	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	08/18/2011	154.79	18.83	0	0	135.96	<40	<50	<0.50	<0.50	<0.50	<1.0	0.61	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	10/04/2011	154.79	14.67	0	0	140.12	<40	<50	<0.50	<0.50	<0.50	<1.0	0.72	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	01/24/2012	154.79	16.75	0	0	138.04	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	04/06/2012	154.79	17.14	0	0	137.65	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	07/02/2012	154.79	14.79	0	0	140.00	<40	<50	<0.50	<0.50	<0.50	<1.0	0.56	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	10/4/2012	154.79	17.52	0	0	137.27	<50	<50	<0.50	<0.50	<0.50	<1.0	0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	1/23/2013	154.79	15.08	0	0	139.71	<50	<50	<0.50	<0.50	<0.50	<1.0	0.55	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	4/22/2013	154.79	15.60	0	0	139.19	<50	<50	<0.50	<0.50	<0.50	<1.0	0.59	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	7/31/2013	154.79	16.42	0	0	138.37	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	10/17/2013	154.79	16.57	0	0	138.22	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	2/24/2014	154.79	17.33	0	0	137.46	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	4/17/2014	154.79	16.65	0	0	138.14	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	7/18/2014	154.79	18.02	0	0	136.77	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	10/21/2014	154.79	18.41	0	0	136.38	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	1/20/2015	154.79	17.95	0	0	136.84	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	pre-purge
	1/20/2015	154.79	--	--	--	--	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	post-purge
	6/3/2015	154.79	18.70	0	0	136.09	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	9/7/2015	154.79	18.18	0	0	136.61	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	12/22/2015	154.79	18.50	0	0	136.29	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	3/15/2016	154.79	18.27	0	0	136.52	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	6/22/2016	154.79	15.48	0	0	139.31	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
	8/25/2016	154.79	17.30	0	0	137.49	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	

Table 2. Historical Groundwater Gauging and Analytical Results

Fourth Quarter 1990 to Current

Union Oil Company of California
 Unocal No. 5781 (351640)
 3535 Pierson Street
 Oakland, California

Sample	TOC	DTW	PSH thickness	PSH recovered	GW Elev	TPH-d	TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	EDB	EDC	DIPE	ETBE	TAME	Ethanol	Comments	
1/20/2015	153.66	12.24	0	0	141.42	880	9,100	<0.50	0.65	85	400	2.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/20/2015	153.66	--	--	--	--	1,800	10,000	<0.50	0.54	85	370	2.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	pre-purge
6/3/2015	153.66	14.70	0	0	138.96	760	5,100	<0.50	<0.50	39	120	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	post-purge
9/7/2015	153.66	16.63	0	0	137.03	3,800	4,100	<5.0	<5.0	130	540	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	
12/22/2015	153.66	11.82	0	0	141.84	1,700	5,600	16	63	53	320	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	
3/15/2016	153.66	11.54	0	0	142.12	1,300	2,200	2.8	1	13	9.4	0.7	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
6/22/2016	153.66	12.35	0	0	141.31		1,600	0.55	<0.50	8.6	2.3	3.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
8/25/2016	153.66	15.18	0	0	138.48	880	2,600	<0.50	0.66	6.6	14	4.4	180	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/23/2016	153.66	12.31	0	0	141.35	4,300	10,000	<0.50	0.99	89	260	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/10/2017	153.66	10.93	0	0	142.73	690	2,100	<0.50	<0.50	9.1	12	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6																					
12/21/2010	154.62	12.10	0	0	142.52	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/10/2011	154.62	11.36	0	0	143.26	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
06/07/2011	154.62	11.33	0	0	143.29	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
08/18/2011	154.62	13.00	0	0	141.62	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/04/2011	154.62	14.02	0	0	140.60	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
01/24/2012	154.62	11.94	0	0	142.68	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
04/06/2012	154.62	11.39	0	0	143.23	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
07/02/2012	154.62	11.49	0	0	143.13	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/4/2012	154.62	16.09	0	0	138.53	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/23/2013	154.62	11.41	0	0	143.21	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/22/2013	154.62	11.43	0	0	143.19	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/31/2013	154.62	15.71	0	0	138.91	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/17/2013	154.62	16.83	0	0	137.79	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/24/2014	154.62	15.22	0	0	139.40	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/17/2014	154.62	11.43	0	0	143.19	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/18/2014	154.62	14.96	0	0	139.66	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/21/2014	154.62	16.70	0	0	137.92	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/20/2015	154.62	11.61	0	0	143.01	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	pre-purge
1/20/2015	154.62	--	--	--	--	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	post-purge
6/3/2015	154.62	11.76	0	0	142.86	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
9/7/2015	154.62	16.08	0	0	138.54	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
12/22/2015	154.62	15.55	0	0	139.07	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/15/2016	154.62	11.33	0	0	143.29	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
6/22/2016	154.62	11.50	0	0	143.12	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
8/25/2016	154.62	13.98	0	0	140.64	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/23/2016	154.62	11.46	0	0	143.16	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/10/2017	154.62	11.25	0	0	143.37	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-7																					
12/21/2010	155.38	13.46	0	0	141.92	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/10/2011	155.38	12.07	0	0	143.31	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
06/07/2011	155.38	12.59	0	0	142.79	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
08/18/2011	155.38	14.37	0	0	141.01	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/04/2011	155.38	15.22	0	0	140.16	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
01/24/2012	155.38	15.32	0	0	140.06	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
04/06/2012	155.38	13.09	0	0	142.29	<49	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
07/02/2012	155.38	14.42	0	0	140.96	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/4/2012	155.38	16.20	0	0	139.18	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/23/2013	155.38	13.27	0	0	142.11	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/22/2013	155.38	14.30	0	0	141.08	<50	52	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/31/2013	155.38	16.30	0	0	139.08																
																					Insufficient Water to Sample

Table 2. Historical Groundwater Gauging and Analytical Results

Fourth Quarter 1990 to Current

Union Oil Company of California

Unocal No. 5781 (351640)

3535 Pierson Street

Oakland, California

Sample	TOC	DTW	PSH thickness	PSH recovered	GW Elev	TPH-d	TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	EDB	EDC	DIPE	ETBE	TAME	Ethanol	Comments	
10/17/2013	155.38	16.77	0	0	138.61	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/24/2014	155.38	15.33	0	0	140.05	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/17/2014	155.38	13.82	0	0	141.56	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/18/2014	155.38	15.70	0	0	139.68	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/21/2014	155.38	16.67	0	0	138.71	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/20/2015	155.38	14.13	0	0	141.25	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	pre-purge
1/20/2015	155.38	--	--	--	--	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	post-purge
6/3/2015	155.38	15.13	0	0	140.25	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
9/7/2015	155.38	16.17	0	0	139.21	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
12/22/2015	155.38	15.58	0	0	139.80	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/15/2016	155.38	12.83	0	0	142.55	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
6/22/2016	155.38	14.20	0	0	141.18	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
8/25/2016	155.38	15.67	0	0	139.71	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/23/2016	155.38	14.87	0	0	140.51	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/10/2017	155.38	11.32	0	0	144.06	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-8																					
12/21/2010	153.71	11.63	0	0	142.08	81	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/10/2011	153.71	11.38	0	0	142.33	61	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
06/07/2011	153.71	11.54	0	0	142.17	71	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
08/18/2011	153.71	12.47	0	0	141.24	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/04/2011	153.71	12.90	0	0	140.81	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
01/24/2012	153.71	12.52	0	0	141.19	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
04/06/2012	153.71	11.35	0	0	142.36	160	270	<0.50	3.7	7.8	91	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
07/02/2012	153.71	12.50	0	0	141.21	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/4/2012	153.71	13.89	0	0	139.82	<50	<50	<0.50	<0.50	<0.50	2.4	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/23/2013	153.71	13.06	0	0	140.65	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/22/2013	153.71	12.82	0	0	140.89	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/31/2013	153.71	13.63	0	0	140.08	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/17/2013	153.71	14.48	0	0	139.23	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/24/2014	153.71	13.56	0	0	140.15	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/17/2014	153.71	11.90	0	0	141.81	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/18/2014	153.71	13.78	0	0	139.93	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/21/2014	153.71	14.38	0	0	139.33	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/20/2015	153.71	13.28	0	0	140.43	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	pre-purge
1/20/2015	153.71	--	--	--	--	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	post-purge
6/3/2015	153.71	12.88	0	0	140.83	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
9/7/2015	153.71	14.19	0	0	139.52	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
12/22/2015	153.71	12.90	0	0	140.81	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/15/2016	153.71	13.14	0	0	140.57	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
6/22/2016	153.71	12.32	0	0	141.39	<50	<50	<0.50	<0.50	<0.50	<1.0	0.97	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
8/25/2016	153.71	13.57	0	0	140.14	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/23/2016	153.71	13.46	0	0	140.25	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/10/2017	153.71	9.60	0	0	144.11	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-9																					
12/21/2010	153.37	10.53	0	0	142.84	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/10/2011	153.37	10.86	0	0	142.51	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
06/07/2011	153.37	11.36	0	0	142.01	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
08/18/2011	153.37	12.52	0	0	140.85	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/04/2011	153.37	13.32	0	0	140.05	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
01/24/2012	153.37	11.23	0	0	142.14	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
04/06/2012	153.37	10.98	0	0	142.39	<40	340	<0.50	4.4	9	120	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
07/02/2012	153.37	12.58	0	0	140.79	<40	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	

**Table 2. Historical Groundwater Gauging and Analytical Results
Fourth Quarter 1990 to Current**

Union Oil Company of California
Unocal No. 5781 (351640)
3535 Pierson Street
Oakland, California

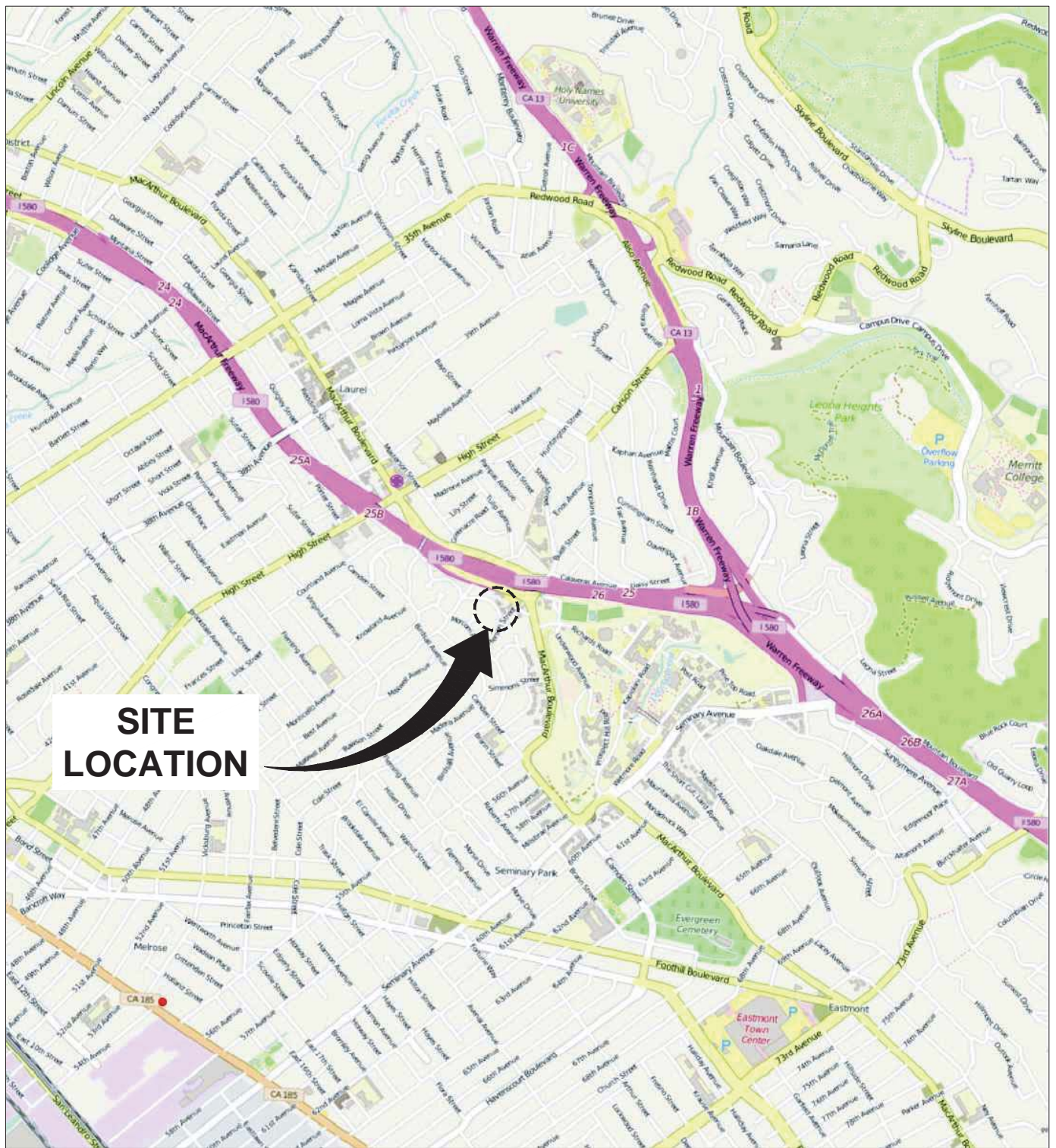
Sample	TOC	DTW	PSH thickness	PSH recovered	GW Elev	TPH-d	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TBA	EDB	EDC	DIPE	ETBE	TAME	Ethanol	Comments	
10/4/2012	153.37	14.31	0	0	139.06	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/23/2013	153.37	11.11	0	0	142.26	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/22/2013	153.37	12.22	0	0	141.15	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/31/2013	153.37	14.10	0	0	139.27	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/17/2013	153.37	14.56	0	0	138.81	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/24/2014	153.37	12.85	0	0	140.52	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/17/2014	153.37	11.73	0	0	141.64	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/18/2014	153.37	13.69	0	0	139.68	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/21/2014	153.37	14.32	0	0	139.05	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
1/20/2015	153.37	11.80	0	0	141.57	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	pre-purge
1/20/2015	153.37	--	--	--	--	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	post-purge
6/3/2015	153.37	13.30	0	0	140.07	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
9/7/2015	153.37	14.05	0	0	139.32	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
12/22/2015	153.37	10.50	0	0	142.87	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/15/2016	153.37	10.26	0	0	143.11	<50	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
6/22/2016	153.37	11.92	0	0	141.45	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
8/25/2016	153.37	13.75	0	0	139.62	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/23/2016	153.37	11.62	0	0	141.75	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/10/2017	153.37	9.79	0	0	143.58	60	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
QA																					
1/23/2013	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/22/2013	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/31/2013	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/17/2013	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/24/2014	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
4/17/2014	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
7/18/2014	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
10/21/2014	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
9/7/2015	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
12/22/2015	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
3/15/2016	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<10	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
6/22/2016	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
8/25/2016	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
11/23/2016	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
2/10/2017	--	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250	

Notes: MW = Groundwater monitoring well
 TOC = Top of casing
 ft amsl = Feet above mean sea level
 DTW = Depth to groundwater
 ft bTOC = Feet below top of casing
 PSH = Phase separate hydrocarbons
 ft = Feet
 gal = Gallons
 GW Elev = Groundwater elevation
 µg/L = Micrograms per liter
Bold = Value exceeds laboratory reporting limits; PSH thickness is greater than 0.00 ft
 <0.50 = Not detected at or above the stated limit
 -- = Not sampled/Not measured

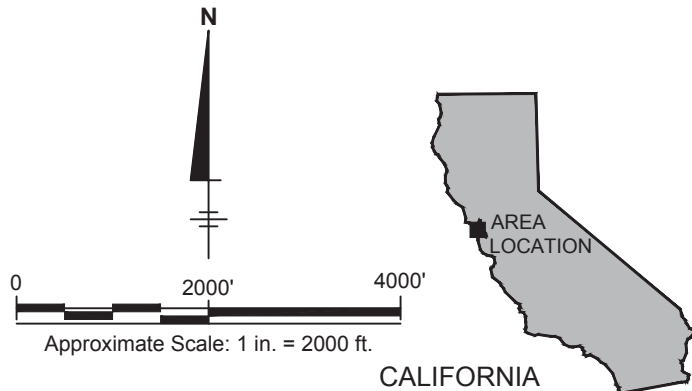
TPH-d = Total petroleum hydrocarbons, diesel range by LUFT GC/MS according (EPA) Method 8015M with Silica Gel Clean Up.
 TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Environmental Protection Agency (EPA) Method 8015
 Benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX)
 MTBE = Methyl tert-butyl ether
 TBA = Tert-butanol or tertiary butyl alcohol
 EDB = 1,2-Dibromoethane
 EDC = 1,2-Dichloroethane
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tert-butyl ether
 TAME = Tert-amyl methyl ether
 Ethanol
 Data QA/QC by DP = 03/02/2017

FIGURES





SOURCE: OpenStreetMap (and) contributors, CC-BY-SA

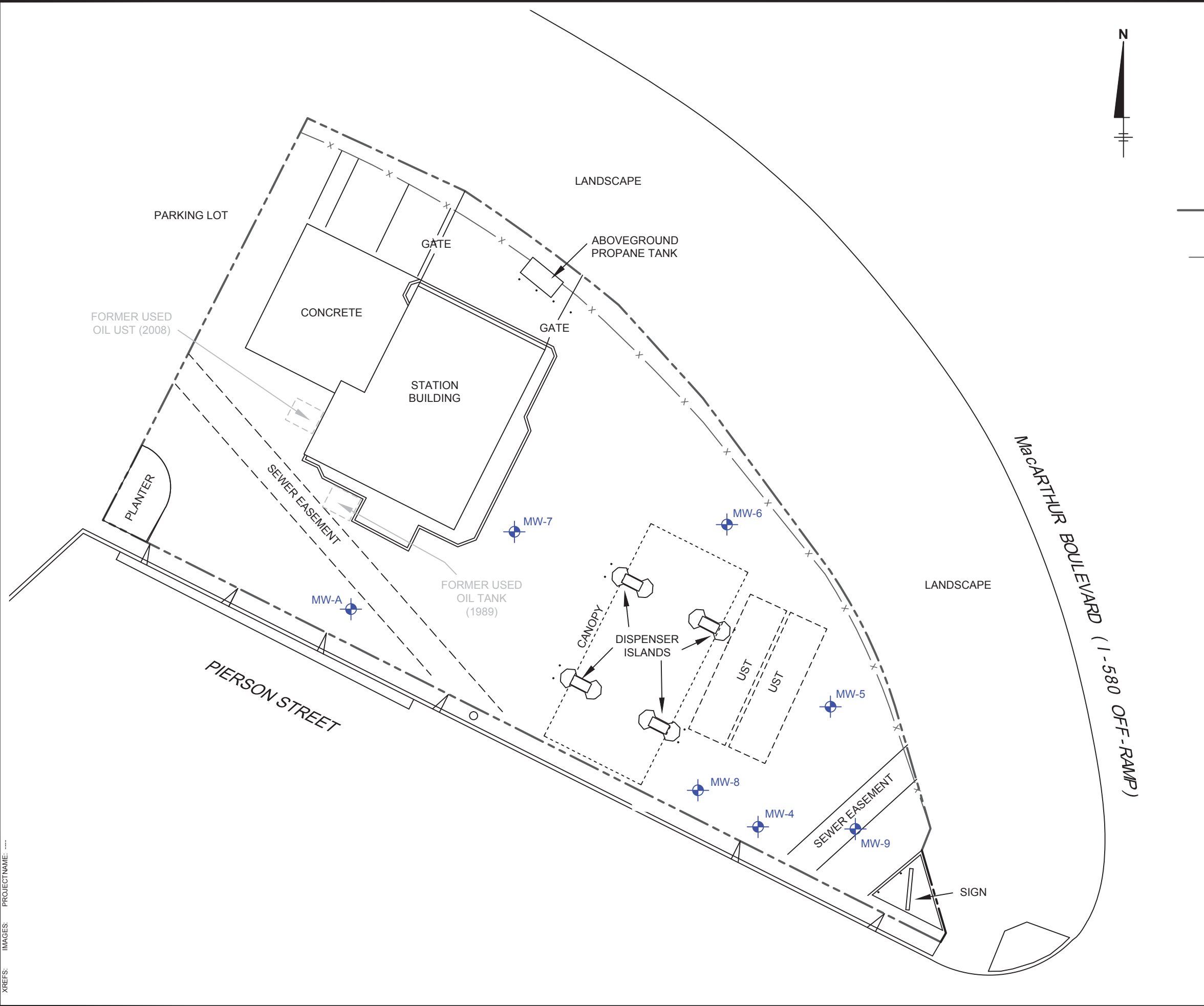


UNOCAL NO. 5781 (351640)
 3535 PIERSON STREET, OAKLAND, CALIFORNIA
QUARTERLY STATUS REPORT
FIRST QUARTER 2017

SITE LOCATION MAP

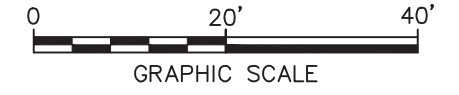
FIGURE **1**

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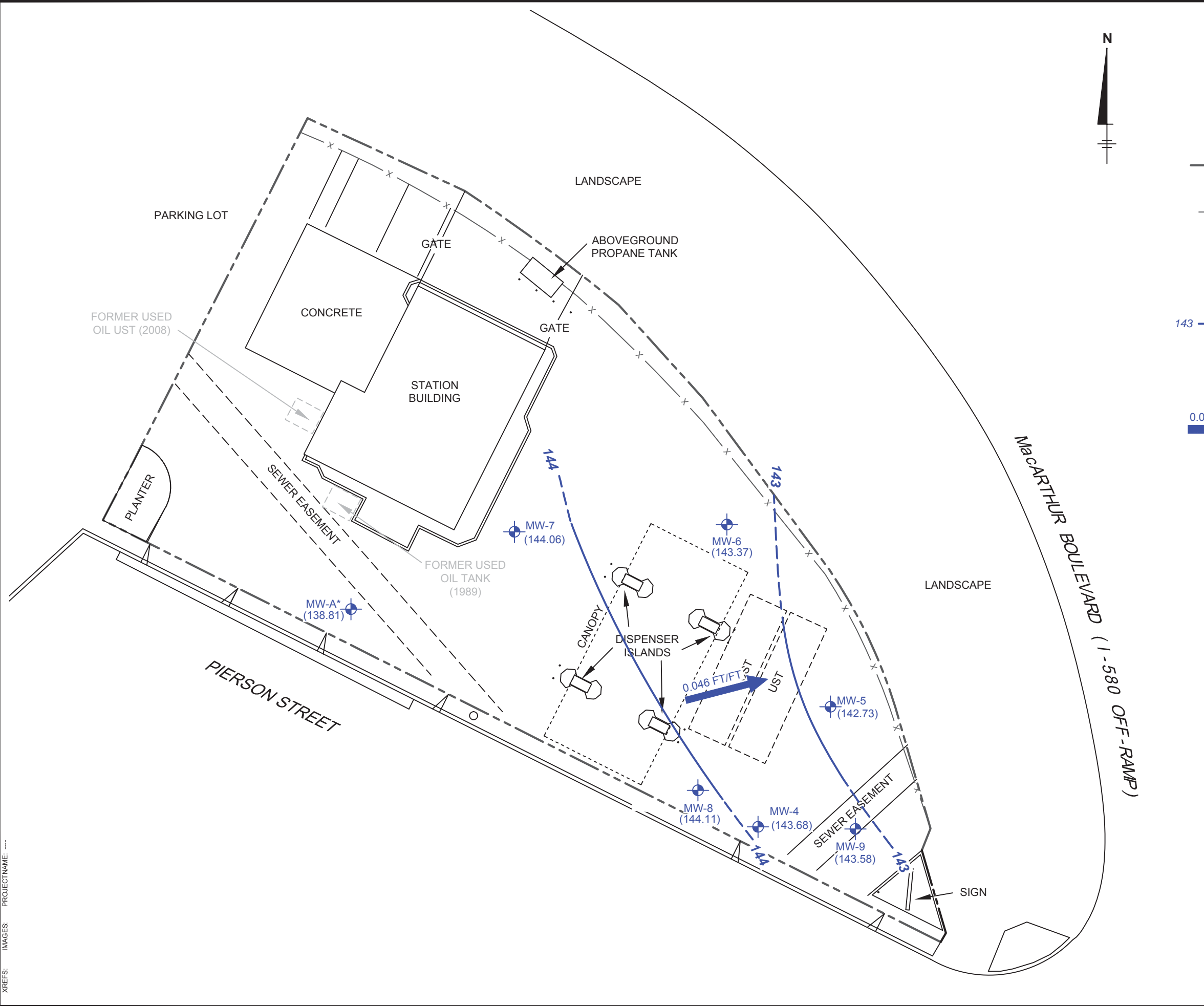
LEGEND

- SUBJECT PROPERTY BOUNDARY
- x - FENCE LINE
- ⊕ MONITORING WELL
- ⊕ UST UNDERGROUND STORAGE TANK

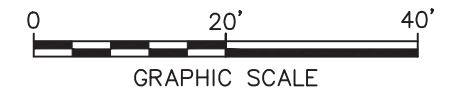


UNOCAL NO. 5781 (351640) 3535 PIERSON STREET, OAKLAND, CALIFORNIA QUARTERLY STATUS REPORT FIRST QUARTER 2017	
SITE PLAN	
ARCADIS Design & Consultancy for natural and built assets	FIGURE 2

CITY:MUMBAI, INDIA DIV:GROUP:ENV:CAD DB:AKAUR
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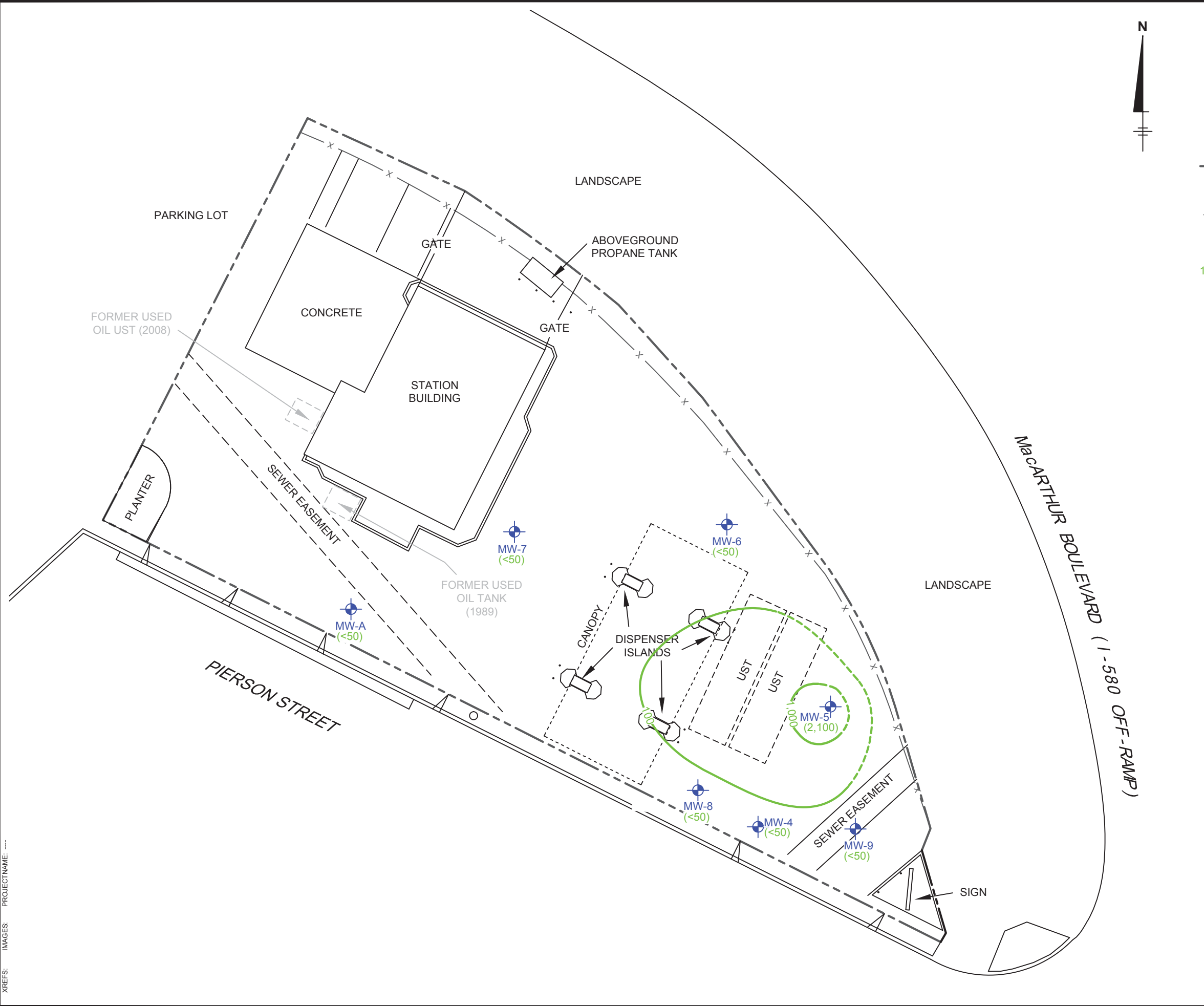
- LEGEND**
- SUBJECT PROPERTY BOUNDARY
 - FENCE LINE
 - MONITORING WELL
 - GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRED)
 - UST UNDERGROUND STORAGE TANK
 - GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT IN FOOT PER FOOT (FT/FT)
 - MW-A* NOT USED IN CONTOURING AS IT WAS SCREENED IN DEEPER AQUIFER



UNOCAL NO. 5781 (351640)
 3535 PIERSON STREET, OAKLAND, CALIFORNIA
QUARTERLY STATUS REPORT
 FIRST QUARTER 2017

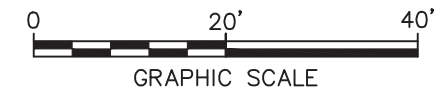
GROUNDWATER ELEVATION CONTOUR MAP
 FEBRUARY 10, 2017

CITY:MUMBAI,INDIA CA DIV:GROUP:ENV:CAD DBA:KAUR
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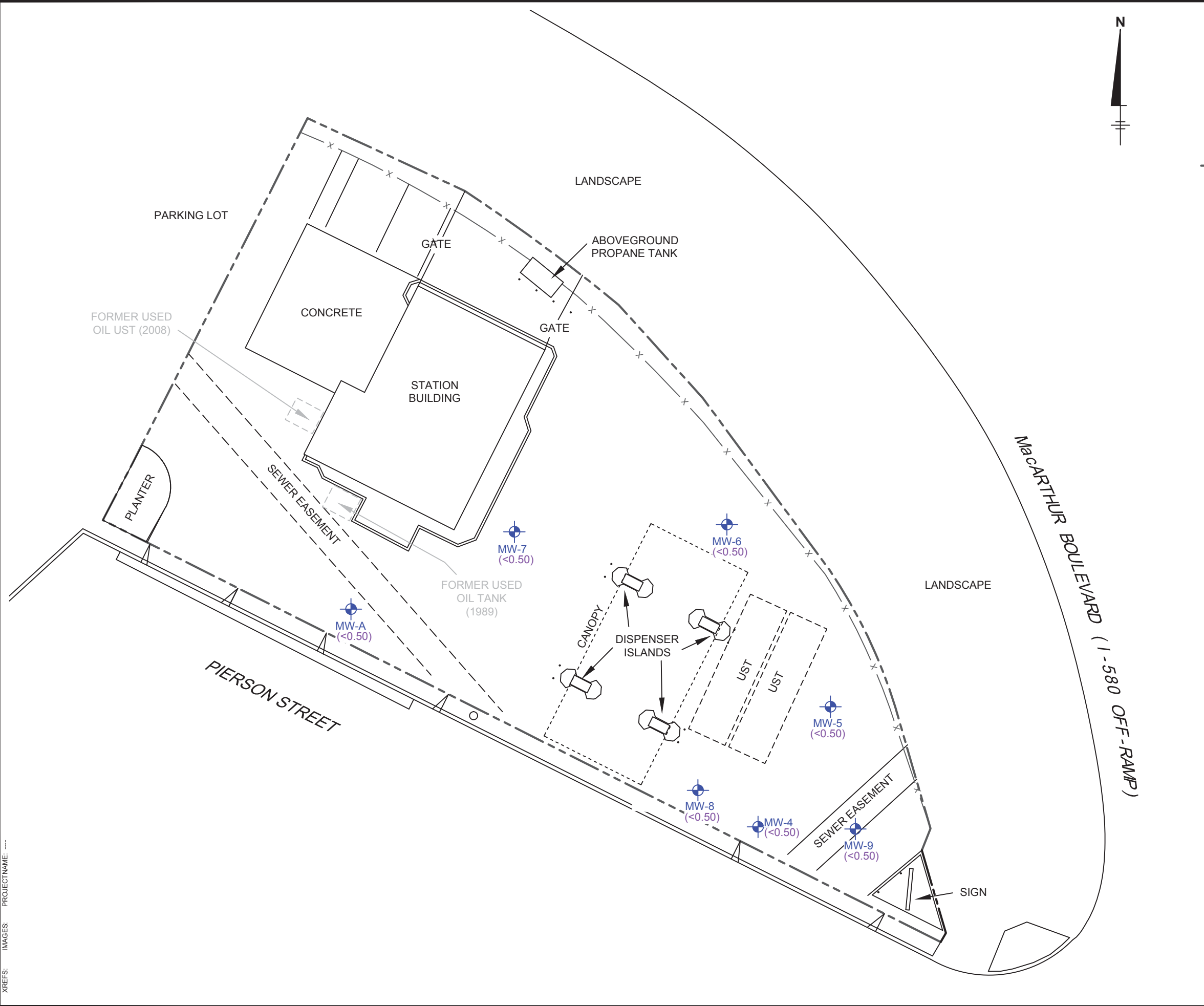
LEGEND

- SUBJECT PROPERTY BOUNDARY
- x FENCE LINE
- MONITORING WELL
- 1,000 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHg) CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- (2,100) TPH-g CONCENTRATION IN MICROGRAMS PER LITRE (µg/L)
- UST UNDERGROUND STORAGE TANK
- (<50) NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT









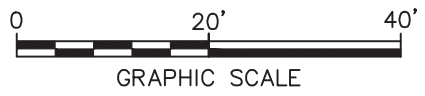
UNOCAL NO. 5781 (351640) 3535 PIERSON STREET, OAKLAND, CALIFORNIA QUARTERLY STATUS REPORT FIRST QUARTER 2017	
TPH-g ISOCONCENTRATION MAP FEBRUARY 10, 2017	
	FIGURE 4

CITY:MUMBAI,INDIA CA DIV:GROUP:ENV:CAD DBA:KAUR
C:\Users\ms00875\Desktop\Chevron\North California\351640\Drawings\351640\1SA17 CAD_V2\351640-BENZENE.dwg LAYOUT: 2 SAVED: 4/5/2017 10:26 AM ACADVER: 20.05 (LMS TECH) PAGES: 20 PLOTTED: 4/5/2017 5:54 PM BY: MOHAMMAD ALI SHAIKH
XREFS: IMAGES: PROJECTNAME: ---



LEGEND

-  SUBJECT PROPERTY BOUNDARY
-  FENCE LINE
-  MONITORING WELL
-  BENZENE CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g}/\text{L}$)
-  UNDERGROUND STORAGE TANK
-  NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT



UNOCAL NO. 5781 (351640)
3535 PIERSON STREET, OAKLAND, CALIFORNIA
QUARTERLY STATUS REPORT
FIRST QUARTER 2017

BENZENE CONCENTRATION MAP
FEBRUARY 10, 2017


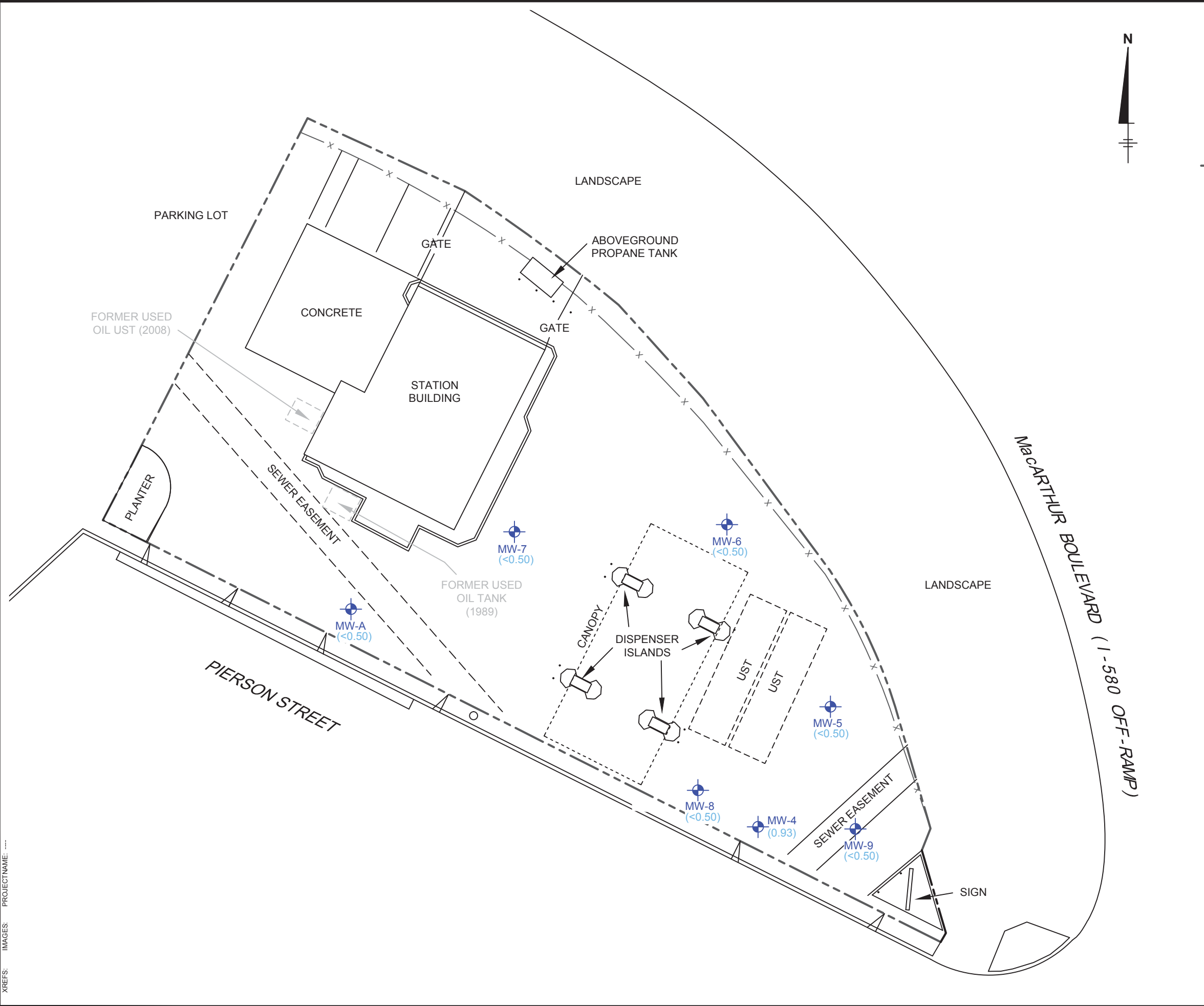
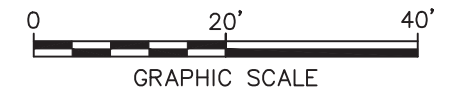
 **ARCADIS** Design & Consultancy for natural and built assets

FIGURE
5

CITY:MUMBAI,INDIA CA DIV:GROUP:ENV:CAD DBA:KAUR
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 XREFS: IMAGES: PROJECTNAME: ---



LEGEND	
	SUBJECT PROPERTY BOUNDARY
	FENCE LINE
	MONITORING WELL
	13 MTBE CONCENTRATION CONTOUR (DASHED WHERE INFERRED)
	METHYL TERTIARY BUTYL ETHER (MTBE) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
	NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT
	UNDERGROUND STORAGE TANK



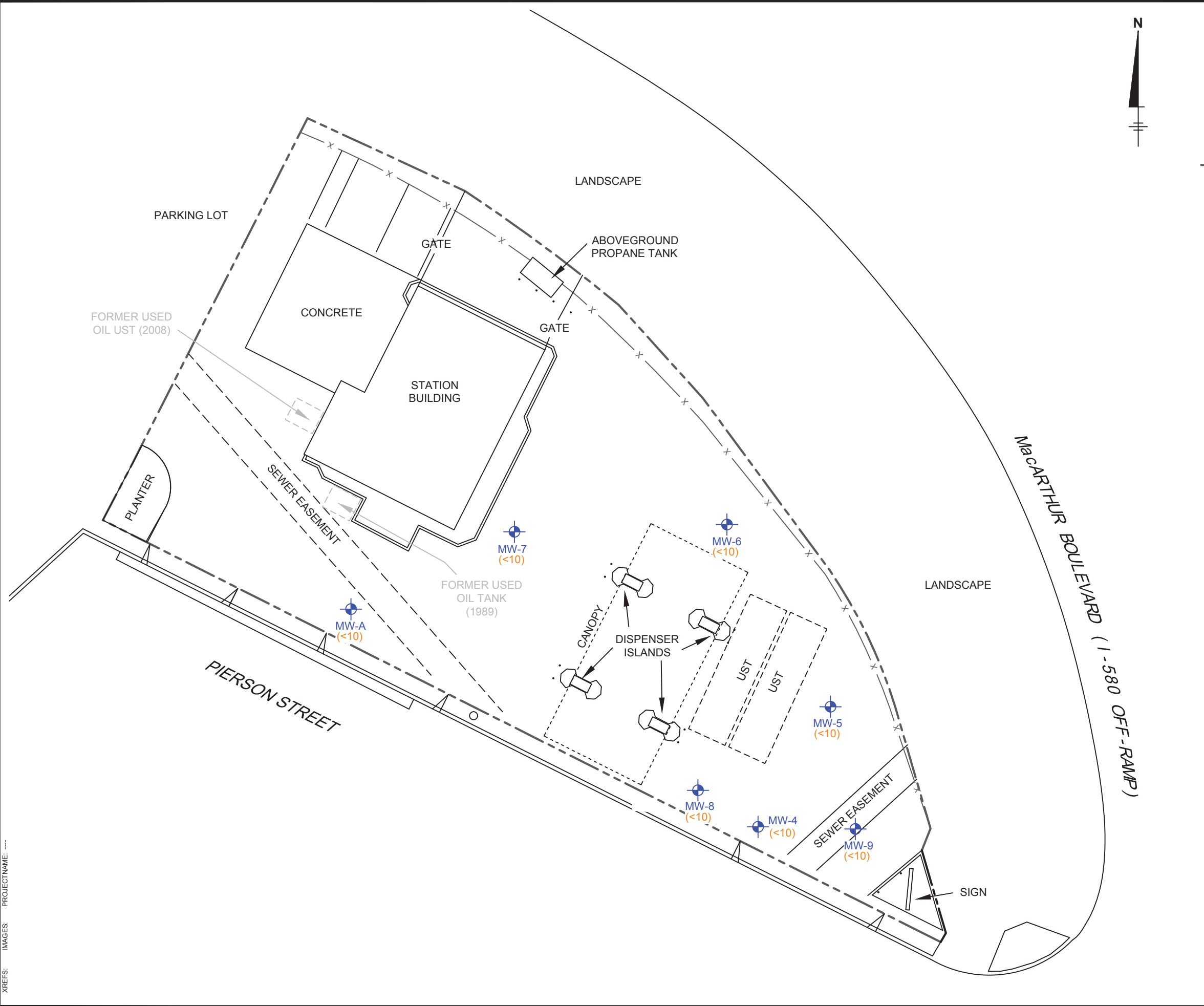
UNOCAL NO. 5781 (351640)
 3535 PIERSON STREET, OAKLAND, CALIFORNIA
QUARTERLY STATUS REPORT
FIRST QUARTER 2017

MTBE CONCENTRATION MAP
FEBRUARY 10, 2017







ARCADIS Design & Consultancy
 for natural and built assets

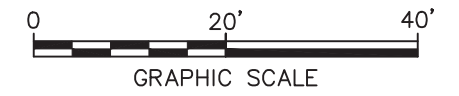
FIGURE
6


CITY:MUMBAI,INDIA CA DIV:GROUP:ENV:CAD DBA:KAUR
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 XREFS: IMAGES: PROJECTNAME: ---

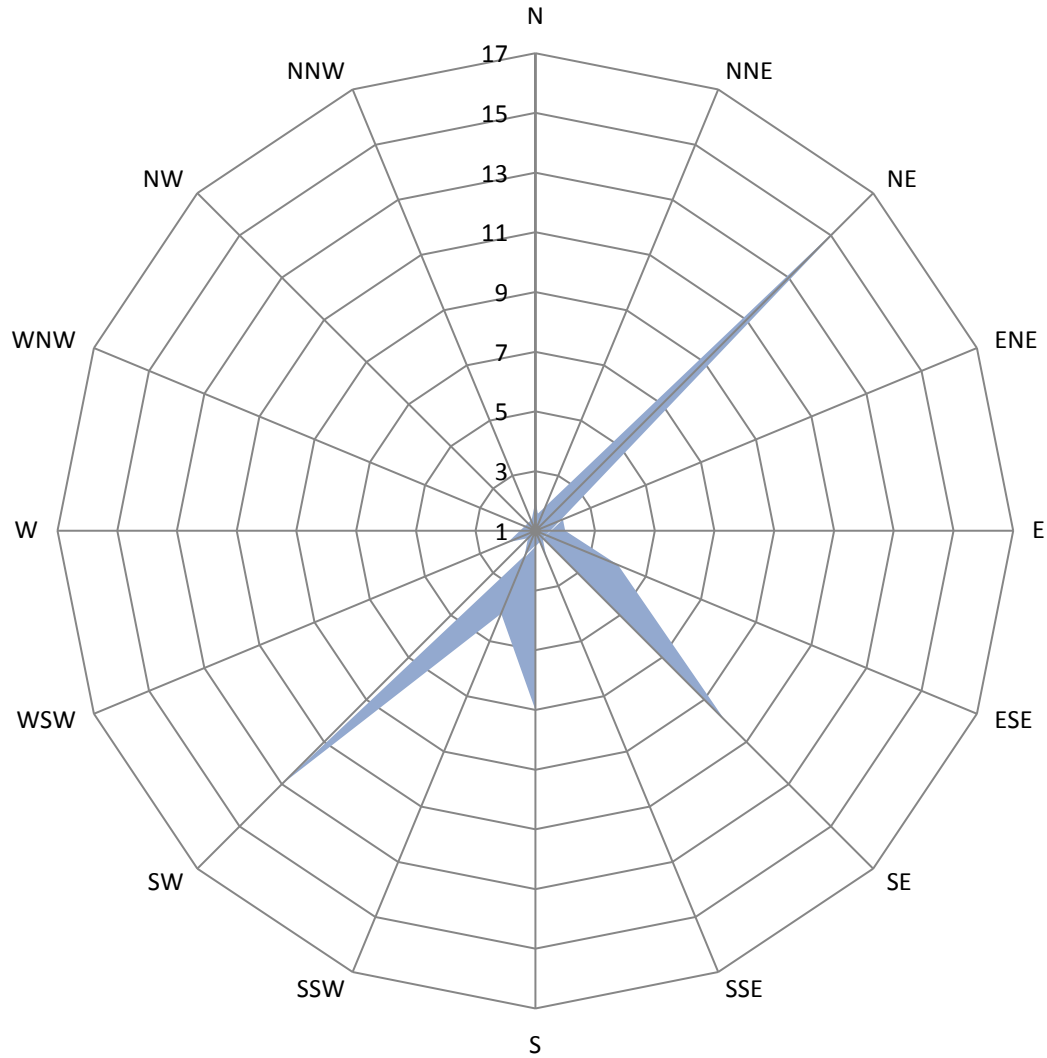


LEGEND

-  SUBJECT PROPERTY BOUNDARY
-  FENCE LINE
-  MONITORING WELL
-  TERTIARY BUTYL ALCOHOL(TBA) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
-  UST UNDERGROUND STORAGE TANK
-  NOT DETECTED AT OR ABOVE LABORATORY METHOD DETECTION LIMIT




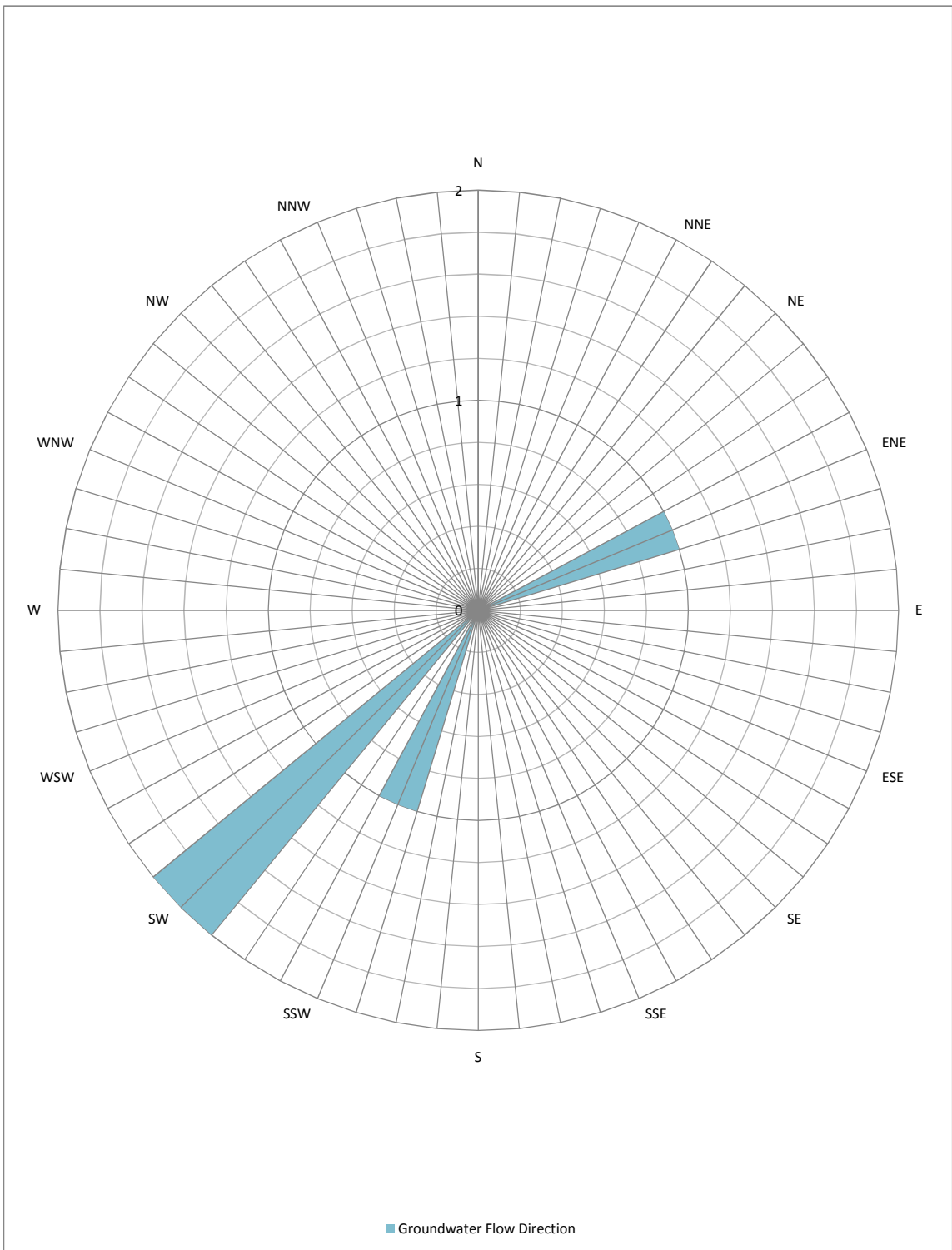
UNOCAL NO. 5781 (351640) 3535 PIERSON STREET, OAKLAND, CALIFORNIA QUARTERLY STATUS REPORT FIRST QUARTER 2017	
TBA CONCENTRATION MAP FEBRUARY 10, 2017	
	FIGURE 7



Note:
 Concentric circles represent the frequency of groundwater flow direction conducted from second quarter 2010 through first quarter 2016.

■ Number of Occurrences

UNOCAL NO. 5781 (351640) 3535 PIERSON STREET OAKLAND, CALIFORNIA	
HISTORICAL GROUNDWATER FLOW DIRECTION ROSE DIAGRAM	
	<small>Design & Consultancy for natural and built assets</small>
FIGURE 8	



Legend

- N=North
- NNE= North Northeast
- NE= Northeast
- ENE= East Northeast
- E= East
- ESE= East Southeast
- SE=Southeast
- SSE= South Southeast
- S= South
- SW= Southwest
- SSW= South Southwest
- WSW= West South West
- W= West
- WNW= West Northwest
- NW=Northwest
- NNW= North Northwest

Note

Rose diagram based on gradient direction calculations from groundwater monitoring events conducted by Arcadis.

Number of Events Observed = 4

UNOCAL NO. 5781 (351640)
3535 PIERSON STREET
OAKLAND, CALIFORNIA

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM



ATTACHMENT A

Field Data Sheets and General Procedures





GETTLER-RYAN INC.



TRANSMITTAL

February 15, 2017
G-R #17155641

TO: Mr, Carl Edwards
Arcadis
100 Montgomery Street, Suite 300
San Francisco, California 94104

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

RE: **Chevron Facility**
#351640/5781
3535 Pierson Street
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package First Semi Annual Event of February 10, 2017

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/351640 5781

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #351640 / 5781**
Site Address: **3535 Pierson Street**
City: **Oakland, CA**

Job #: **17155641**
Event Date: **2-10-17**
Sampler: **FT**

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y <input checked="" type="checkbox"/>	REPLACE CAP Y <input checked="" type="checkbox"/>	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y <input checked="" type="checkbox"/>
MW-A	OK	→		S=1	OK	→				Emco 8" 2	
MW-4	OK	→				→				Emco 12" 2	
MW-5	OK	→		1 Broken Bolt in Flange	OK	→					
MW-6	OK	→				→					
MW-7	OK	→		S=1	OK	→					
MW-8	OK	→				→					
MW-9	OK	→				→					

Comments _____

STANDARD OPERATING PROCEDURE GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells. 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 #351640 / 5781 Job Number: 17155641
 Site Address: 3535 Pierson Street Event Date: 2.10.17 (inclusive)
 City: Oakland, CA Sampler: Fr

Well ID: MW-A Date Monitored: 2.10.17
 Well Diameter: Ø14 in.
 Total Depth: 45.00 ft.
 Depth to Water: 15.98 ft. Check if water column is less than 0.50 ft.
29.02 xVF .17 = 4.93 x3 case volume = Estimated Purge Volume: 15.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.78

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0945 Weather Conditions: CLOUDY / SUNNY
 Sample Time/Date: 1040 / 2.10.17 Water Color: CLEAR Odor: Y / 0
 Approx. Flow Rate: 2.5 gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 21.06

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0947</u>	<u>5.0</u>	<u>7.67</u>	<u>632</u>	<u>19.4</u>	_____	_____
<u>0949</u>	<u>10.0</u>	<u>7.64</u>	<u>639</u>	<u>19.6</u>	_____	_____
<u>0951</u>	<u>15.0</u>	<u>7.61</u>	<u>647</u>	<u>19.9</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-A</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)
	<u>2</u> x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)

COMMENTS: SLOW RECOVERY

WERE PRE PURGE SAMPLES SUBMITTED TO THE LAB? Y (N) DTW READING: _____ TIME: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351640 / 5781
 Site Address: 3535 Pierson Street
 City: Oakland, CA

Job Number: 17155641
 Event Date: 2.10.17 (inclusive)
 Sampler: FT

Well ID: MW-4
 Well Diameter: 210 in.
 Total Depth: 24.74 ft.
 Depth to Water: 9.80 ft.

Date Monitored: 2-10-17

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

Check if water column is less than 0.50 ft.

14.94 xVF .66 = 9.86 x3 case volume = Estimated Purge Volume: 30.0 gal.

Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 12.78

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): 1025
 Sample Time/Date: 1020 / 2.10.17
 Approx. Flow Rate: 2.5 gpm.
 Did well de-water? yes If yes, Time: 1031

Weather Conditions: SUNNY / CLOUDY
 Water Color: CLEAR Odor: Y 10
 Sediment Description: NONE
 Volume: 15.0 gal. DTW @ Sampling: 9.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1029</u>	<u>10.0</u>	<u>7.68</u>	<u>1128</u>	<u>20.4</u>	<u>/</u>	<u>/</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)

COMMENTS: _____

WERE PRE PURGE SAMPLES SUBMITTED TO THE LAB? (Y) / N DTW READING: 13.74 TIME: 1250

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351640 / 5781
 Site Address: 3535 Pierson Street
 City: Oakland, CA

Job Number: 17155641
 Event Date: 2.10.17 (inclusive)
 Sampler: FT

Well ID: MW-5
 Well Diameter: 210 in.
 Total Depth: 19.89 ft.
 Depth to Water: 10.93 ft.
8.96 xVF .66 = 5.91 x3 case volume = Estimated Purge Volume: 18.0 gal.

Date Monitored: 2.10.17

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.72

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): 1150
 Sample Time/Date: 1145 / 2.10.17
 Approx. Flow Rate: = 2.0 gpm.
 Did well de-water? YES If yes, Time: 1154 Volume: 8.0 gal. DTW @ Sampling: 10.93

Weather Conditions: Sunny / Cloudy
 Water Color: CLEAN Odor: 0 / N STRONG
 Sediment Description: NONE

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1153</u>	<u>6.0</u>	<u>6.93</u>	<u>520</u>	<u>19.5</u>	<u>/</u>	<u>/</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)
	<u>2</u> x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)

COMMENTS: _____

WERE PRE PURGE SAMPLES SUBMITTED TO THE LAB? 0 / N DTW READING: 15:06 TIME: 1330

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351640 / 5781 Job Number: 17155641
 Site Address: 3535 Pierson Street Event Date: 2.10.17 (inclusive)
 City: Oakland, CA Sampler: FR

Well ID: MW-6 Date Monitored: 2.10.17
 Well Diameter: 214 in.
 Total Depth: 19.95 ft.
 Depth to Water: 11.25 ft. Check if water column is less than 0.50 ft.
8.70 xVF .17 = 1.47 x3 case volume = Estimated Purge Volume: 4.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.99

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

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

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

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

Start Time (purge): 1130 Weather Conditions: CLOUDY / SUNNY
 Sample Time/Date: 1130 2.10.17 Water Color: LT. BRN. Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: S. SILTY
 Did well de-water? Yes If yes, Time: 1135 Volume: 2.0 gal. DTW @ Sampling: 11.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1134</u>	<u>1.5</u>	<u>7.47</u>	<u>421</u>	<u>19.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)
	<u>2</u> x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)

COMMENTS: _____

WERE PRE PURGE SAMPLES SUBMITTED TO THE LAB? N DTW READING: 14.89 TIME: 1255

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351640 / 5781 Job Number: 17155641
 Site Address: 3535 Pierson Street Event Date: 2.10.17 (inclusive)
 City: Oakland, CA Sampler: FR

Well ID: MW-7 Date Monitored: 2.10.17
 Well Diameter: 2 1/4 in.
 Total Depth: 19.69 ft.
 Depth to Water: 11.32 ft. Check if water column is less than 0.50 ft.
8.37 xVF .17 = 1.42 x3 case volume = Estimated Purge Volume: 4.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.99

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

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

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

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

Start Time (purge): 1005 Weather Conditions: Cloudy / Sunny
 Sample Time/Date: 1005/2.10.17 Water Color: Clean Odor: Y / 0
 Approx. Flow Rate: — gpm. Sediment Description: None
 Did well de-water? yes If yes, Time: 1009 Volume: 210 gal. DTW @ Sampling: 12.99

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1008</u>	<u>1.5</u>	<u>7.58</u>	<u>650</u>	<u>20.0</u>	<u>—</u>	<u>—</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>NP</u>	<u>BC LABS</u>	<u>TPH-DRO w/sgc(8015M)</u>

COMMENTS: _____

WERE PRE PURGE SAMPLES SUBMITTED TO THE LAB? / N DTW READING: 13.32 TIME: 1245

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351640 / 5781
 Site Address: 3535 Pierson Street
 City: Oakland, CA

Job Number: 17155641
 Event Date: 2.10.17 (inclusive)
 Sampler: FT

Well ID: MW-8
 Well Diameter: 2 1/4 in.
 Total Depth: 19.92 ft.
 Depth to Water: 9.60 ft.

Date Monitored: 2.10.17

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.66

Check if water column is less than 0.50 ft.
 $10.32 \times VF .17 = 1.75$ x3 case volume = Estimated Purge Volume: 5.0 gal.

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1055
 Sample Time/Date: 1117 / 2.10.17
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Cloudy / Sunny
 Water Color: CLEAR Odor: Y 100
 Sediment Description: NONE
 DTW @ Sampling: 11.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (mS / μmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1058</u>	<u>1.5</u>	<u>7.40</u>	<u>695</u>	<u>19.2</u>	_____	_____
<u>1101</u>	<u>3.0</u>	<u>7.38</u>	<u>650</u>	<u>19.3</u>	_____	_____
<u>1105</u>	<u>5.0</u>	<u>7.36</u>	<u>656</u>	<u>19.5</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>NP</u>	<u>BC LABS</u>	<u>TPH-DRO w/sgc(8015M)</u>

COMMENTS: _____

WERE PRE PURGE SAMPLES SUBMITTED TO THE LAB? Y / (N) DTW READING: _____ TIME: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351640 / 5781
 Site Address: 3535 Pierson Street
 City: Oakland, CA

Job Number: 17155641
 Event Date: 2.10.07 (inclusive)
 Sampler: FT

Well ID: MW-9
 Well Diameter: 214 in.
 Total Depth: 19.65 ft.
 Depth to Water: 9.79 ft.

Date Monitored: 2.10.07

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

Check if water column is less than 0.50 ft.

9.86 xVF .17 = 1.67 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.76

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): 1210
 Sample Time/Date: 1232 / 2.10.07
 Approx. Flow Rate: / gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Cloudy / Sunny
 Water Color: LT. BRN. Odor: Y / 0
 Sediment Description: S. SILTY
 DTW @ Sampling: 10.85

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS)	Temperature (°/F)	D.O. (mg/L)	ORP (mV)
<u>1213</u>	<u>1.5</u>	<u>7.53</u>	<u>545</u>	<u>19.4</u>	_____	_____
<u>1216</u>	<u>3.0</u>	<u>7.51</u>	<u>551</u>	<u>19.6</u>	_____	_____
<u>1220</u>	<u>5.0</u>	<u>7.49</u>	<u>557</u>	<u>19.8</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>6</u> x vov vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)
	<u>2</u> x 1 liter ambers	YES	NP	BC LABS	TPH-DRO w/sgc(8015M)

COMMENTS: _____



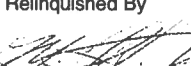
WERE PRE PURGE SAMPLES SUBMITTED TO THE LAB? Y / (N) DTW READING: _____ TIME: _____

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>5781</u>				Union Oil Consultant: <u>ARCADIS</u>		ANALYSES REQUIRED											
Site Global ID: <u>T0600101467</u>				Consultant Contact: <u>CALL EDWARDS</u>		TPH - Diesel by EPA 8015 <input checked="" type="checkbox"/> W1554 TPH - G by 8015 <u>(8015)</u> BTEX/MTBE/ 8015 by EPA 8260B Ethanol by EPA 8260B EPA 8260B 8015 with OXYS <u>(8)</u>											
Site Address: <u>3535 MELROSE ST. OAKLAND, CA</u>				Consultant Phone No. <u>(415) 885-0754</u>													
Union Oil PM: <u>JAMES D KIELBASO</u>				Sampling Company: <u>GETTLER-1247</u>													
Union Oil PM Phone No. <u>(925) 842-3220</u>				Sampled By (PRINT): <u>FRANK T.</u>													
Charge Code: <u>NWRTB-0 351640 -O- LAB</u>				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												Turnaround Time (TAT):					
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/>		48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>		Special Instructions							
						Notes / Comments											
<u>Q11</u>	<u>W-S-A</u>		<u>17.2.10</u>		<u>2</u>												
<u>MW-A</u>	<u>W-S-A</u>			<u>1040</u>	<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>MW-4</u>	<u>W-S-A</u>			<u>1020</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>MW-5</u>	<u>W-S-A</u>			<u>1145</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>MW-6</u>	<u>W-S-A</u>			<u>1130</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>MW-7</u>	<u>W-S-A</u>			<u>1005</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>MW-8</u>	<u>W-S-A</u>			<u>1117</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<u>MW-9</u>	<u>W-S-A</u>			<u>1232</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	<u>W-S-A</u>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
	<u>W-S-A</u>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
	<u>W-S-A</u>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
	<u>W-S-A</u>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Relinquished By			Company			Date / Time:			Relinquished By			Company			Date / Time:		
			<u>6-W INC.</u>			<u>17.2.13</u>						<u>GRILL</u>			<u>02-13-17 1300</u>		
Received By			Company			Date / Time:			Received By			Company			Date / Time:		
<u>GETTLER-RYAN FRISCH</u>			<u>1247-10 OAKLAND</u>			<u>17.2.10 1000</u>			<u>Doug Boyer</u>			<u>Bclab</u>			<u>2-13-17 1300</u>		

ATTACHMENT B

Historical Groundwater Analytical Data



**Table 3 - Historical Groundwater Analytical Data
February 2004 - March 2009**

Unocal No. 5781 (351640)
3535 Pierson Street
Oakland, California

WELL ID	DATE	DICHLORO- difluoro- METHANE (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	cis- 1,2-DCE (µg/L)	trans- 1,2-DCE (µg/L)	1,2- DICHLORO- PROPANE (µg/L)	cis-1,3- DICHLORO- PROPANE (µg/L)	1,1,2,2- TETRACHLORO- ETHANE (µg/L)	TETRACHLORO- ETHENE (µg/L)	TRICHLORO- TRIFLUORO- ETHANE (µg/L)	1,1,1- TRICHLORO- ETHANE (µg/L)	1,1,2- TRICHLORO- ETHANE (µg/L)	TRICHLORO- ETHENE (µg/L)	TRICHLORO- FLUORO- METHANE (µg/L)	VINYL CHLORIDE (µg/L)
MW-A	2/3/2004	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50
	2/18/2005	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50
	3/29/2006	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	3/28/2007	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	3/22/2008	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	3/27/2009	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

NOTES:

µg/L = Micrograms per liter

ID = Identification

ND<# = Analyte not detected at or above indicated laboratory practical quantitation limit

ATTACHMENT C

Laboratory Report and Chain-of-Custody Documentation





Date of Report: 02/22/2017

Tamera Rogers

Arcadis

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

Client Project: 351640
BCL Project: 5781
BCL Work Order: 1703973
Invoice ID: B259944

Enclosed are the results of analyses for samples received by the laboratory on 2/13/2017. 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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CHAIN OF CUSTODY FORM

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

COC 1 of 1

Union Oil Site ID: 5781
 Site Global ID: T0600101467
 Site Address: 3535 PLEASANT ST. OAKLAND, CA
 Union Oil PM: JAMES P. KILGUS
 Union Oil PM Phone No. (925) 842-3220
 Charge Code: NWRTB-0351640-0-LAB 17-03973
 This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.

Union Oil Consultant: ANCADIS
 Consultant Contact: CAUL BERLANDS
 Consultant Phone No. (415) 925-0755
 Sampling Company: GETTLER-RYAN
 Sampled By (PRINT): FRANK T.
 Sampler Signature: [Signature]
 BC Laboratories, Inc.
 Project Manager: Molly Meyers
 4100 Atlas Court, Bakersfield, CA 93308
 Phone No. 661-327-4911

Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	ANALYSES REQUIRED				Notes / Comments
						TPH - Diesel by EPA 8015	TPH - G by (8015)	BTEX/MTBE/ by EPA 8260	Ethanol by EPA 8260B	
1 QA	W-SA		17-2-10	1040	2	X	X	X	X	
2 MW-A	W-SA			1020	8	X	X	X	X	
3 MW-4	W-SA			1145		X	X	X	X	
4 MW-5	W-SA			1130		X	X	X	X	
5 MW-6	W-SA			1005		X	X	X	X	
6 MW-7	W-SA			1117		X	X	X	X	
7 MW-8	W-SA			1232		X	X	X	X	
8 MW-9	W-SA					X	X	X	X	
	W-SA									
	W-SA									
	W-SA									
	W-SA									

Turnaround Time (TAT):
 Standard 24 Hours
 48 Hours 72 Hours
 Special Instructions

Relinquished By: [Signature] Date / Time: 17-2-13 10745
 Received By: [Signature] Date / Time: 17-2-13 10745

Relinquished By: [Signature] Date / Time: 2-13-17 1300
 Received By: [Signature] Date / Time: 2-13-17 1300

Company: GETTLER-RYAN FRIDGE
 Company: BCLABS

Company: BCLABS
 Company: BCLABS

Company: BCLABS
 Company: BCLABS

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 17-03973

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

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

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

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

COC Received: YES/NO. Emissivity: 0.97. Container: VOA. Thermometer ID: 207. Date/Time: 2/13 21:45. Analyst Init: GSP. Temperature: (A) 1.1 C / (C) 1.3 C

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like PE UNPRES, INORGANIC CHEMICAL METALS, CYANIDE, NITROGEN FORMS, SULFIDE, ORGANIC CARBON, PHENOLICS, etc. Handwritten entries include 'AB' and 'GM' across columns 2-10.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 2/13/17 2025 Rev 21 05/23/2016



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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

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

1703973-01	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: QA-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): QA Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1703973-02	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: MW-A-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 10:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-A Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1703973-03	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: MW-4-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): 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: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

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

1703973-04	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: MW-5-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1703973-05	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: MW-6-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1703973-06	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: MW-7-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 10:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-7 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: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

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

1703973-07	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: MW-8-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 11:17 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1703973-08	COC Number: --- Project Number: 5781 Sampling Location: --- Sampling Point: MW-9-W-170210 Sampled By: GRD	Receive Date: 02/13/2017 21:50 Sampling Date: 02/10/2017 12:32 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101467 Location ID (FieldPoint): MW-9 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: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-01	Client Sample Name: 5781, QA-W-170210, 2/10/2017 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	73.2	%	75 - 125 (LCL - UCL)		EPA-8260B		S09	1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	139	%	80 - 120 (LCL - UCL)		EPA-8260B		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 14:51	IO1	MS-V12	1	B[B1089

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-01	Client Sample Name: 5781, QA-W-170210, 2/10/2017 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	87.3	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/14/17 23:57	AKM	GC-V9	1	B[B0998

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-02	Client Sample Name: 5781, MW-A-W-170210, 2/10/2017 10:40:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	69.1	%	80 - 120 (LCL - UCL)		EPA-8260B		S09	1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 15:09	IO1	MS-V12	1	B[B1089

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-02	Client Sample Name: 5781, MW-A-W-170210, 2/10/2017 10:40:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	93.6	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/14/17 21:55	AKM	GC-V9	1	B[B0998

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San Jose, CA 95119

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1703973-02	Client Sample Name: 5781, MW-A-W-170210, 2/10/2017 10:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	ND		1
Tetracosane (Surrogate)	56.4	%	40 - 140 (LCL - UCL)		Luft/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	02/15/17	02/21/17 09:42	RSM	GC-5	1	B B1633

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-03	Client Sample Name: 5781, MW-4-W-170210, 2/10/2017 10:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	0.93	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	115	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 15:27	IO1	MS-V12	1	B[B1089

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-03	Client Sample Name: 5781, MW-4-W-170210, 2/10/2017 10:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	88.2	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/15/17 00:18	AKM	GC-V9	1	B[B0998

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1703973-03	Client Sample Name: 5781, MW-4-W-170210, 2/10/2017 10:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	ND		1
Tetracosane (Surrogate)	47.9	%	40 - 140 (LCL - UCL)		Luft/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	02/15/17	02/21/17 09:57	RSM	GC-5	1	B[B1633

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-04	Client Sample Name: 5781, MW-5-W-170210, 2/10/2017 11:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	9.1	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	12	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	85.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	87.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 17:49	IO1	MS-V12	1	B[B1089

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-04	Client Sample Name: 5781, MW-5-W-170210, 2/10/2017 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	2100	ug/L	500		EPA-8015B	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	109	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/14/17 20:54	AKM	GC-V9	10	B[B0998

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1703973-04	Client Sample Name: 5781, MW-5-W-170210, 2/10/2017 11:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	690	ug/L	50		Luft/TPHd	ND	A52	1
Tetracosane (Surrogate)	55.9	%	40 - 140 (LCL - UCL)		Luft/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	02/15/17	02/21/17 10:11	RSM	GC-5	1	B[B1633

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-05	Client Sample Name: 5781, MW-6-W-170210, 2/10/2017 11:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.3	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 15:45	IO1	MS-V12	1	B[B1089

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-05	Client Sample Name: 5781, MW-6-W-170210, 2/10/2017 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	93.9	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/14/17 22:15	AKM	GC-V9	1	B[B0998

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1703973-05	Client Sample Name: 5781, MW-6-W-170210, 2/10/2017 11:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	ND		1
Tetracosane (Surrogate)	67.0	%	40 - 140 (LCL - UCL)		Luft/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	02/15/17	02/21/17 10:25	RSM	GC-5	1	B[B]1633

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-06	Client Sample Name: 5781, MW-7-W-170210, 2/10/2017 10:05:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 16:02	IO1	MS-V12	1	B[B1089

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-06	Client Sample Name: 5781, MW-7-W-170210, 2/10/2017 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	89.8	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/15/17 00:38	AKM	GC-V9	1	B[B0998

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1703973-06	Client Sample Name: 5781, MW-7-W-170210, 2/10/2017 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	ND		1
Tetracosane (Surrogate)	63.8	%	40 - 140 (LCL - UCL)		Luft/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	02/15/17	02/21/17 10:38	RSM	GC-5	1	B[B1633

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-07	Client Sample Name: 5781, MW-8-W-170210, 2/10/2017 11:17:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 16:20	IO1	MS-V12	1	B[B1089

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-07	Client Sample Name: 5781, MW-8-W-170210, 2/10/2017 11:17:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	89.3	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/15/17 00:59	AKM	GC-V9	1	B[B0998

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1703973-07	Client Sample Name: 5781, MW-8-W-170210, 2/10/2017 11:17:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	ND		1
Tetracosane (Surrogate)	58.3	%	40 - 140 (LCL - UCL)		Luft/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	02/15/17	02/21/17 11:20	RSM	GC-5	1	B[B1633

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1703973-08	Client Sample Name: 5781, MW-9-W-170210, 2/10/2017 12:32:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/14/17	02/14/17 16:38	IO1	MS-V12	1	B[B1089

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1703973-08	Client Sample Name: 5781, MW-9-W-170210, 2/10/2017 12:32:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	90.7	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/17	02/15/17 01:19	AKM	GC-V9	1	B[B1228

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1703973-08	Client Sample Name: 5781, MW-9-W-170210, 2/10/2017 12:32:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	60	ug/L	50		Luft/TPHd	ND	A52	1
Tetracosane (Surrogate)	64.2	%	40 - 140 (LCL - UCL)		Luft/TPHd			1
Capric acid (Reverse Surrogate)	0	%	0 - 1 (LCL - UCL)		Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	02/15/17	02/21/17 11:34	RSM	GC-5	1	B[B1633

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[B1089]						
Benzene	B[B1089-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	B[B1089-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	B[B1089-BLK1	ND	ug/L	0.50		
Ethylbenzene	B[B1089-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	B[B1089-BLK1	ND	ug/L	0.50		
Toluene	B[B1089-BLK1	ND	ug/L	0.50		
Total Xylenes	B[B1089-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	B[B1089-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	B[B1089-BLK1	ND	ug/L	10		
Diisopropyl ether	B[B1089-BLK1	ND	ug/L	0.50		
Ethanol	B[B1089-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	B[B1089-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	B[B1089-BLK1	82.4	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[B1089-BLK1	95.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[B1089-BLK1	100	%	80 - 120 (LCL - UCL)		

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San Jose, CA 95119

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[B1089										
Benzene	B[B1089-BS1	LCS	27.230	25.000	ug/L	109		70 - 130		
Toluene	B[B1089-BS1	LCS	26.640	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[B1089-BS1	LCS	9.4200	10.000	ug/L	94.2		75 - 125		
Toluene-d8 (Surrogate)	B[B1089-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[B1089-BS1	LCS	9.9500	10.000	ug/L	99.5		80 - 120		

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
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	Percent		Lab Quals
								Recovery	Control Limits RPD	
QC Batch ID: B[B1089]		Used client sample: N								
Benzene	MS	1701379-68	ND	25.630	25.000	ug/L		103		70 - 130
	MSD	1701379-68	ND	28.050	25.000	ug/L	9.0	112	20	70 - 130
Toluene	MS	1701379-68	ND	25.530	25.000	ug/L		102		70 - 130
	MSD	1701379-68	ND	28.290	25.000	ug/L	10.3	113	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1701379-68	ND	9.2000	10.000	ug/L		92.0		75 - 125
	MSD	1701379-68	ND	9.0500	10.000	ug/L	1.6	90.5		75 - 125
Toluene-d8 (Surrogate)	MS	1701379-68	ND	10.050	10.000	ug/L		100		80 - 120
	MSD	1701379-68	ND	9.7900	10.000	ug/L	2.6	97.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1701379-68	ND	12.870	10.000	ug/L		129		80 - 120
	MSD	1701379-68	ND	9.7600	10.000	ug/L	27.5	97.6		80 - 120

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[B0998]						
Gasoline Range Organics (C4 - C12)	B[B0998-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	B[B0998-BLK1	97.6	%		70 - 130 (LCL - UCL)	
QC Batch ID: B[B1228]						
Gasoline Range Organics (C4 - C12)	B[B1228-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	B[B1228-BLK1	97.7	%		70 - 130 (LCL - UCL)	

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San Jose, CA 95119

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B[B0998]										
Gasoline Range Organics (C4 - C12)	B[B0998-BS1	LCS	878.22	1000.0	ug/L	87.8		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	B[B0998-BS1	LCS	41.317	40.000	ug/L	103		70 - 130		
QC Batch ID: B[B1228]										
Gasoline Range Organics (C4 - C12)	B[B1228-BS1	LCS	1010.5	1000.0	ug/L	101		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	B[B1228-BS1	LCS	37.204	40.000	ug/L	93.0		70 - 130		

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San Jose, CA 95119

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals	
								Percent Recovery	Percent Recovery		
QC Batch ID: B[B0998]		Used client sample: N									
Gasoline Range Organics (C4 - C12)	MS	1701379-64	ND	953.68	1000.0	ug/L		95.4		70 - 130	
	MSD	1701379-64	ND	1030.4	1000.0	ug/L	7.7	103	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1701379-64	ND	40.446	40.000	ug/L		101		70 - 130	
	MSD	1701379-64	ND	41.787	40.000	ug/L	3.3	104		70 - 130	
QC Batch ID: B[B1228]		Used client sample: N									
Gasoline Range Organics (C4 - C12)	MS	1703964-08	2310.4	9729.0	6000.0	ug/L		124		70 - 130	A01
	MSD	1703964-08	2310.4	9120.2	6000.0	ug/L	6.5	113	20	70 - 130	A01
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1703964-08	ND	36.633	40.000	ug/L		91.6		70 - 130	
	MSD	1703964-08	ND	34.771	40.000	ug/L	5.2	86.9		70 - 130	

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San Jose, CA 95119

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B[B1633]						
Diesel Range Organics (C12 - C24)	B[B1633-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	B[B1633-BLK1	56.3	%	40 - 140 (LCL - UCL)		
Capric acid (Reverse Surrogate)	B[B1633-BLK1	0	%	0 - 1 (LCL - UCL)		

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Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B[B1633											
Diesel Range Organics (C12 - C24)	B[B1633-BS1	LCS	181.44	500.00	ug/L	36.3		20	110		
Tetracosane (Surrogate)	B[B1633-BS1	LCS	9.1220	20.000	ug/L	45.6		40	140		
Capric acid (Reverse Surrogate)	B[B1633-BS1	LCS	ND	100.00	ug/L	0		0	1		

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San Jose, CA 95119

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
Project Manager: Tamera Rogers

Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B[B1633		Used client sample: N								
Diesel Range Organics (C12 - C24)	MS	1632299-58	ND	212.39	500.00	ug/L		42.5		20 - 110
	MSD	1632299-58	ND	287.25	500.00	ug/L	30.0	57.5	30	20 - 110
Tetracosane (Surrogate)	MS	1632299-58	ND	11.393	20.000	ug/L		57.0		40 - 140
	MSD	1632299-58	ND	12.855	20.000	ug/L	12.1	64.3		40 - 140
Capric acid (Reverse Surrogate)	MS	1632299-58	ND	ND	100.00	ug/L		0		0 - 1
	MSD	1632299-58	ND	ND	100.00	ug/L		0		0 - 1

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

Reported: 02/22/2017 9:23
Project: 5781
Project Number: 351640
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.
- A52 Chromatogram not typical of diesel.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.

ATTACHMENT D

Revised Figure 3, Quarterly Status Report - Fourth
Quarter 2016



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

Arcadis U.S., Inc.
2999 Oak Road
Suite 300
Walnut Creek
CA 94597
Tel 408-797-2013
Fax 925-274-1103

Subject:

Revised Figure 3 – Quarterly Status Report – Fourth Quarter 2016 – Alameda County LOP Case #RO0000253 / RWQCB Case #01-1592 (3535 Pierson Street, Oakland, California)

www.arcadis.com

Dear Mr. Nowell:

On January 15th, 2017 Arcadis submitted the *Quarterly Status Report, Fourth Quarter 2016* for the site located at 3535 Pierson Street, Oakland, CA. In this report, the groundwater elevation contours and calculated hydraulic gradient shown on Figure 3 were incorrect. Well MW-A was inadvertently used in the calculation even though the well is screened in a deeper aquifer. This caused the hydraulic gradient to be significantly different from previous events. We have updated this figure with the correct elevation contours and gradient (0.076 ft/ft) and included it as an attachment to this letter, to serve as an addendum to the report. If you have any questions please feel free to contact me, Tamera Rogers, at 408-797-2013 (Tamera.rogers@arcadis.com). We appreciate your assistance on this project.

Date:

April 7, 2017

Contact:

Tamera Rogers

Phone:

408.797.2013

Email:

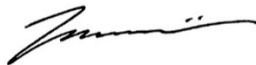
Tamera.Rogers@arcadis.com

Sincerely,

Our ref:

351640

Arcadis U.S., Inc.

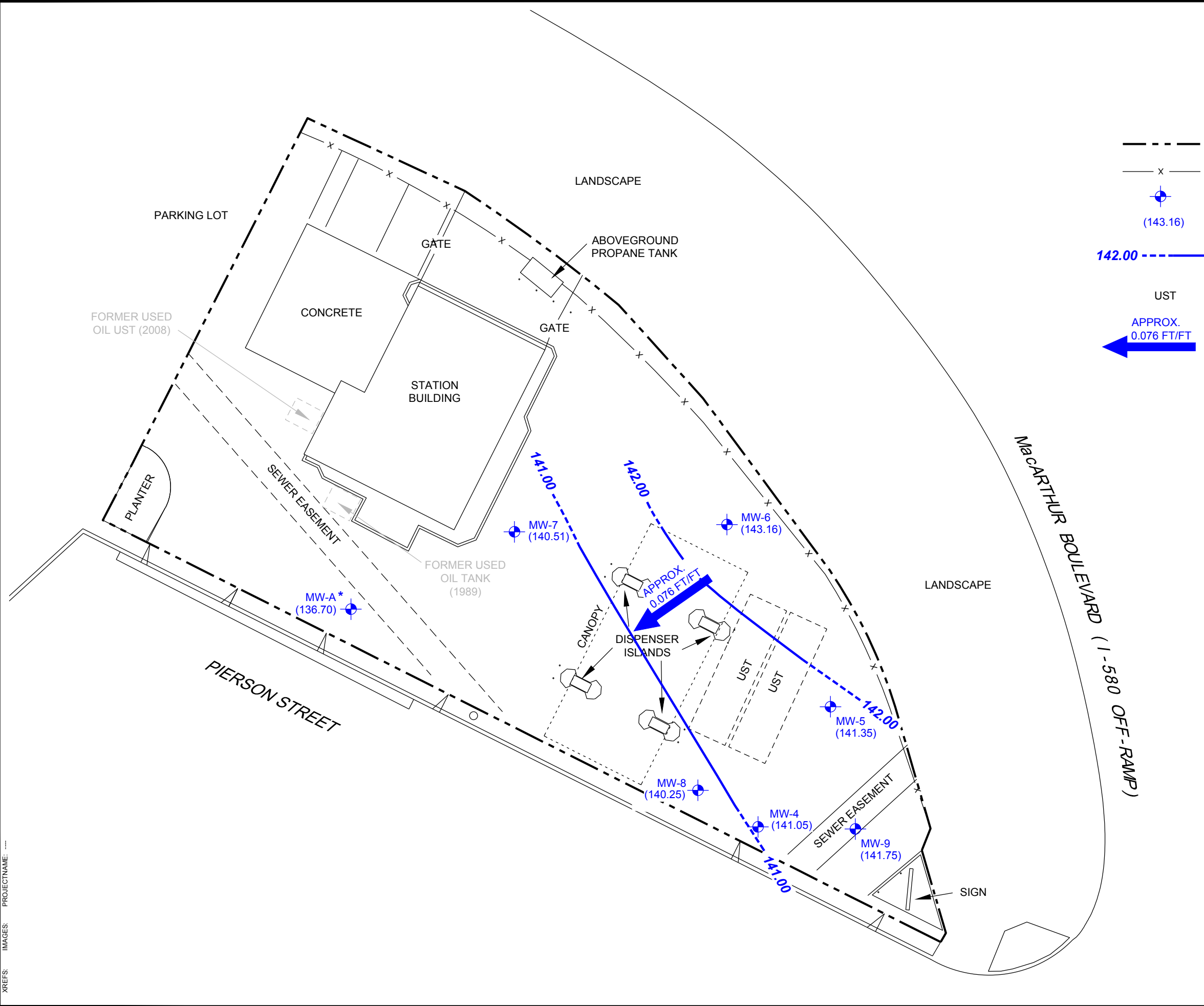


Tamera Rogers
Project Manager

Attachments:

- Figure 3 – Groundwater Elevation Contour (*Quarterly Status Report, Fourth Quarter 2016*)

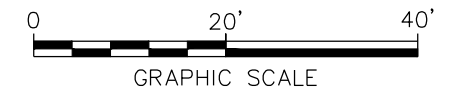
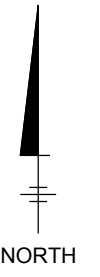
CITY:EMERYVILLE,CA DIV:GROUP/ENVCAD DB:A REYES
 G:\ENVCAD\emeryville\act\B0035135\1640\001\AR4Q 2016\DWG\B0035135_1640_W03.dwg LAYOUT: 3 SAVED: 3/15/2017 11:39 AM ACADVER: 19.15 (LMS TECH) PAGES: 19.15 (LMS TECH) PLOTTED: 3/15/2017 12:32 PM BY: REYES, ALEC
 XREFS: IMAGES: PROJECTNAME: "



LEGEND

- SUBJECT PROPERTY BOUNDARY
- FENCE LINE
- MONITORING WELL
- GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL DASHED WHERE INFERRED
- UST UNDERGROUND STORAGE TANK
- GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT IN FOOT PER FOOT (FT/FT)

NOTE:
 MW-A* WAS NOT USED IN CONTOURING, AS IT IS SCREENED IN DEEPER AQUIFER



UNOCAL NO. 5781 (351640)
 3535 PIERSON STREET, OAKLAND, CALIFORNIA
FOURTH QUARTER GROUNDWATER MONITORING REPORT 2016

GROUNDWATER ELEVATION CONTOUR MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE **3**

ATTACHMENT E

ACDEH Correspondence



ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

July 24, 2009

TERRY GRAYSON
CONOCOPHILLIPS
76 BROADWAY STREET
SACRAMENTO CA 95818

UNITED BROTHERS ENTERPRISE INC
3535 PIERSON ST
OAKLAND CA 946193427

SCARTEEN CORP.
PO BOX 7600
LOS ANGELES CA 90051

Subject: Fuel Leak Case No. RO0000253 and Geotracker Global ID T0600101467, SITE UNOCAL #5781,
3535 PIERSON ST, Oakland CA 94619- Groundwater Monitoring Requirements

Dear Responsible Parties:

The purpose of this correspondence is to inform you of changes to groundwater monitoring requirements for all fuel leak cases in California. The California State Water Resources Control Board (State Water Board) has approved Resolution No. 2009-0042 (*Actions to Improve Administration of the UST Cleanup Fund and UST Cleanup Program*). Resolution No. 2009-0042 states that, "Regional Water Board and LOP agencies shall reduce quarterly groundwater monitoring requirements to semiannual or less frequent monitoring at all sites unless site-specific needs warrant otherwise and shall notify all responsible parties of the new requirements no later than August 1, 2009. If more than semiannual monitoring is required for a case, the responsible party and State Water board shall be notified of the rationale and the notice shall be posted on Geotracker."

In accordance with Resolution No. 2009-0042, groundwater monitoring for your site is to be reduced to semiannual monitoring unless site-specific needs warrant otherwise. A semiannual groundwater monitoring should be used only for wells that have been sampled over a minimum of one hydrologic cycle (four consecutive quarters). New monitoring wells should be sampled quarterly for one year before a semiannual monitoring schedule is implemented for new wells.

Any groundwater monitoring wells that are currently sampled on a less frequent schedule than semiannual (annual or longer) may continue to be sampled on the less frequent schedule. Please present results from the semiannual groundwater monitoring in groundwater monitoring reports no later than 60 days following the groundwater sampling event.

If you have any questions, please call me at (510) 639-1279 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,

A handwritten signature in black ink, appearing to read "Barbara J. Jakub", with a long horizontal flourish extending to the right.

Barbara J. Jakub, P.G.
Hazardous Materials Specialist

Responsible Parties
R00000253,
July 24, 2009, Page 2

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032
(Sent via E-mail to: lgriffin@oaklandnet.com)
Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Barbara Jakub, ACEH (Sent via E-mail to: barbara.jakub@acgov.org)
Geotracker, File

RESPONSIBLE PARTY OF RECORD AS OF 07/22/2009

RO0000253, UNOCAL #5781, 3535 PIERSON ST , Oakland, CA, 94619

Alameda County Environmental Health (ACEH) has the following information on record regarding the Responsible Party(ies) for the above referenced site. Please update the following information for our records. Should you have contact information regarding additional Responsible Parties, please correct the information accordingly. Also, please check the "e-mail preferred" box to receive all future correspondences and notifications by e-mail.

E-mail Preferred

Hardcopy Preferred

ACEH is requesting your e-mail address so that we can correspond with you quickly and efficiently regarding your case. Please note that ACEH respects your privacy. Your e-mail address will remain confidential and will not be provided to any third party.

Current Information

TERRY GRAYSON
CONOCOPHILLIPS
76 BROADWAY STREET
SACRAMENTO CA 95818
Terry.L.Grayson@contractor.conocophillips.com
9165587666

FIRST2250 LAST2250
UNITED BROTHERS ENTERPRISE INC
3535 PIERSON ST
OAKLAND CA 946193427

FIRST0662 LAST0662
SCARTEEN CORP.
PO BOX 7600
LOS ANGELES CA 90051

Corrections or Additions

Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____
E-mail: _____
Home Phone: (____) _____
Office Phone: (____) _____
Cell Phone: (____) _____

Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____
E-mail: _____
Home Phone: (____) _____
Office Phone: (____) _____
Cell Phone: (____) _____

Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____
E-mail: _____
Home Phone: (____) _____
Office Phone: (____) _____
Cell Phone: (____) _____

RO0000253, 3535 PIERSON ST , Oakland

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

**Processing is complete. No errors were found!
Your file has been successfully submitted!**

<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	1Q17 QSR - EDF 1703973
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600101467
<u>Facility Name:</u>	UNOCAL #5781
<u>File Name:</u>	EDD_BCLabs_1703973_EDF.zip
<u>Organization Name:</u>	ARCADIS
<u>Username:</u>	ARCADIS76
<u>IP Address:</u>	8.39.233.220
<u>Submittal Date/Time:</u>	2/22/2017 10:23:52 AM
<u>Confirmation Number:</u>	9369467377

[**VIEW QC REPORT**](#)

[**VIEW DETECTIONS REPORT**](#)

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<u>Submittal Type:</u>	GEO_WELL
<u>Report Title:</u>	1Q17 DTW
<u>Facility Global ID:</u>	T0600101467
<u>Facility Name:</u>	UNOCAL #5781
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	ARCADIS
<u>Username:</u>	ARCADIS76
<u>IP Address:</u>	8.39.233.220
<u>Submittal Date/Time:</u>	2/22/2017 10:36:08 AM
<u>Confirmation Number:</u>	6860399246

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UPLOADING A GEO_REPORT FILE

SUCCESS

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<u>Submittal Type:</u>	GEO_REPORT
<u>Report Title:</u>	Quarterly Status Report, First Quarter 2017
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Report Date:</u>	4/10/2017
<u>Facility Global ID:</u>	T0600101467
<u>Facility Name:</u>	UNOCAL #5781
<u>File Name:</u>	351640 1SA17 GWMR FNL.pdf
<u>Organization Name:</u>	ARCADIS
<u>Username:</u>	ARCADIS76
<u>IP Address:</u>	8.39.233.202
<u>Submittal Date/Time:</u>	4/10/2017 10:02:55 AM
<u>Confirmation Number:</u>	3091676712

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