

Mr. Keith Nowell  
Alameda County LOP  
1131 Harbor Bay Parkway  
Alameda, California 94502

**RECEIVED**  
By Alameda County Environmental Health 3:01 pm, Oct 26, 2016

Subject:  
**Third Quarter 2016 Groundwater Monitoring Report**  
Former Atlantic Richfield Company Station #11132  
3201 35th Avenue, Oakland, California 94619  
Alameda County LOP Case #RO0000014  
SFB-RWQCB Case #01-0227

Arcadis U.S., Inc.  
2170 Highland Avenue  
Suite 250  
Birmingham  
AL 35205  
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Dear Mr. Nowell:

Arcadis U.S., Inc. (Arcadis) has prepared this quarterly groundwater monitoring report (GMR) to document the results of groundwater monitoring and sampling at the former Atlantic Richfield Company (ARCO) Service Station #11132, located at 3201 35th Avenue in Oakland, California (the Site; Figure 1).

ENVIRONMENT

If you have any questions or comments regarding the contents of this report, please contact Megan Smoley at 626.590.1502 or by e-mail at [Megan.Smoley@arcadis.com](mailto:Megan.Smoley@arcadis.com).

Date:  
October 26, 2016

"I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Contact:  
Megan Smoley

Sincerely,

Phone:  
626.590.1502

Arcadis U.S., Inc.

Email:  
[Megan.Smoley@arcadis.com](mailto:Megan.Smoley@arcadis.com)



Megan Smoley, P.G. No. 8614

Our ref:  
GP09BPNA.C112.N0000

Certified Project Manager

Copies:  
Ms. Shelby Lathrop, Conoco Phillips, 76 Broadway, Sacramento, California 95818

## WORK PERFORMED DURING THE THIRD QUARTER 2016

- Conducted semi-annual groundwater monitoring and sampling for third quarter 2016 on September 7, 2016.

## WORK PROPOSED FOR THE FOURTH QUARTER 2016

- Discussed path forward with Alameda County LOP in meeting on October 5, 2016.
- Submit the *Third Quarter 2016 Groundwater Monitoring Report*, contained herein.
- Submit work plan for additional characterization after receipt of directive from Alameda County LOP.
- Conduct quarterly groundwater monitoring and sampling at monitoring wells MW-10R, MW-11, and OW-1.

## SITE INFORMATION

Current Phase of Project:	Groundwater Monitoring and Sampling
Frequency of Monitoring and Sampling	Semi-Annual Gauging (1/3Q): MW-1 through MW-11 and RW-1 Semi-Annual Sampling (1/3Q): MW-1, MW-2, MW-5, MW-8, MW-9 and RW-1 Annual Sampling (1Q): MW-4 and MW-7 Annual Sampling (3Q): MW-3 and MW-6 Quarterly Gauging and Sampling: MW-10R, MW-11, and OW-1
Have Liquid Phase Hydrocarbons (LPH) Been Measured Onsite, Historically?	Yes
Historical Range in Depth to Water (DTW; feet below top of casing [btoc]):	9.11 (MW-8 3Q/2007) to 32.20 (RW-1 2Q/1994)

## CURRENT QUARTER MONITORING DATA

Wells Gauged:	MW-1 through MW-11, RW-1 and OW-1
Wells Sampled:	MW-1, MW-2, MW-3, MW-5, MW-6, MW-8, MW-9, MW-10R, MW-11 and RW-1
Monitoring and Sampling Date:	September 7, 2016
LPH Measured This Quarter (thickness in feet):	OW-1 (0.16')
LPH Recovered This Quarter:	None
Cumulative LPH Recovered to Date:	113.7 gallons
DTW Range (feet btoc):	17.10 (MW-5) to 21.21 (MW-4)
Groundwater Flow Direction and Gradient (feet/foot):	Southwest (0.005 ft/ft)

## GROUNDWATER MONITORING AND SAMPLING

During the third quarter 2016 sampling event, HydraSleeves were used to collect groundwater samples at the Site. Prior to groundwater sampling, depths to water were measured to within 0.01 feet below top of casing (btoc) in all wells using an oil/water interface probe. All monitoring and sampling activities were performed by Blaine Tech Services, Inc. (Blaine Tech).

Groundwater samples were submitted under chain-of-custody protocol to ESC Lab Sciences (ESC), a California state-certified laboratory. Samples were analyzed for total petroleum hydrocarbons gasoline range organics (GRO) by EPA Method 8015B, benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), methyl tert-butyl ether (MTBE), tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), ethanol, 1,2-dichloroethane (1,2-DCA), and ethylene dibromide (EDB) by EPA Method 8260B.

No issues were noted by ESC during sample analysis that would have an adverse effect on the quality of the data and no issues affecting the sampling protocol were noted.

## RECOMMENDATIONS

Arcadis recommends continuation of groundwater monitoring and sampling on a quarterly basis at MW-10R, MW-11 and OW-1, and on a semi-annual or annual basis at all other monitoring well locations in accordance with the approved schedule.

## LIMITATIONS

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by ESC, and our understanding of the San Francisco Regional Water Quality Control Board (SF-RWQCB) requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Arcadis and ARCO. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

## Tables

- 1 Well Construction Details
- 2 Current Groundwater Monitoring and Analytical Data
- 3 Historical Groundwater Monitoring and Analytical Data
- 4 Historical Groundwater Flow Direction and Gradient

## Figures

- 1 Site Location Map
- 2 Site Plan
- 3 Groundwater Elevation map – September 7, 2016
- 4 Groundwater Analytical Summary Map – September 7, 2016
- 5 Groundwater Flow Direction Rose Diagram

## Attachments

- 1 Groundwater Sampling Data Package
- 2 Certified Laboratory Analytical Report and Chain of Custody Documentation

# TABLES



Well ID	Completion Date	Total Depth (feet bgs)	Well Depth (feet bgs)	Screen Interval (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Destruction Date
AS-1	09/08/10	47	45	42 - 45	8	2	--
MW-1	07/30/86	45	45	10 - 45	8	2	--
MW-2	07/31/86	35	35	10 - 35	8	2	--
MW-3	07/31/86	35	35	10 - 35	8	2	--
MW-4	01/29/90	41	40	10 - 40	8	2	--
MW-5	02/01/90	35	35	10 - 35	8	2	--
MW-6	02/01/90	35	35	15 - 35	8	2	--
MW-7	02/01/90	35	35	17 - 35	8	2	--
MW-8	01/25/91	41.5	40	20 - 40	8	2	--
MW-9	02/26/91	35	35	15 - 35	8	2	--
MW-10	02/27/91	36	35	20 - 35	8	2	02/03/16
MW-10R	02/03/16	27	26	11 - 26	8	2	--
MW-11	02/10/16	28	26	11 - 26	8	2	--
OW-1	09/08/10	40	42	20 - 40	8	2	--
RW-1	01/29/90	41.5	40	20 - 40	12	6	--
SVE-1	09/07/10	20	20	10 - 20	8	2	--
VM-1	09/07/10	20	20	10 - 20	8	2	--
VM-2	09/07/10	20	22	10 - 20	8	2	--

**Notes:**

- AS = air sparge well
- MW = monitoring Well
- OW = observation well
- RW = groundwater recovery well
- SVE = soil vapor extraction well
- VM = soil vapor monitoring well
- bgs = below ground surface
- = not applicable

**Table 2**  
**Current Groundwater Monitoring and Analytical Data**  
**CA-11132**  
**3201 35th Ave, Oakland CA**

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/l)	Notes	
MW-1	09/07/2016		169.75	20.98	--	148.77	9,940	143	5.44J	123	15.2	<5.00	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<500	0.22	
MW-2	09/07/2016		168.14	19.54	--	148.60	24,200	8,960	122J	626	668	90.8J	<500	<100	<100	<100	<100	<100	<100	<10,000	0.38	
MW-3	09/07/2016		167.17	18.75	--	148.42	280	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<100	0.40	
MW-4	09/07/2016		170.36	21.21	--	149.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	09/07/2016		165.14	17.10	--	148.04	1,830	325	9.39J	47.3	22.1J	<10.0	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<1,000	0.29	
MW-6	09/07/2016		165.40	17.12	--	148.28	<100	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<100	1.63	
MW-7	09/07/2016		168.08	18.90	--	149.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	09/07/2016		165.74	17.63	--	148.11	8,220	49.8	12.3J	245	180	<5.00	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<500	0.32	
MW-9	09/07/2016		166.20	17.89	--	148.31	7,730	7.22	<5.00	17.4	2.7J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<100	0.24	
MW-10R	09/07/2016		166.80	18.43	--	148.37	32,300	2,520	693	3,010	8,140	<50.0	<250	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<5,000	0.24	
MW-11	09/07/2016		165.64	17.91	--	147.73	244	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<100	0.20		
RW-1	09/07/2016		168.01	19.36	--	148.65	1,120	2.86	0.919J	2.28	2.66J	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<100	0.18		
OW-1	09/07/2016		--	19.74	0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)

**Notes:**

TOC = Top of casing measured  
DTW = Depth to water  
LNAPL = Light non-aqueous phase liquid (LPH)  
GW Elev = Groundwater elevation  
GRO = Gasoline range organics  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Total xylenes  
MTBE = Methyl tert-butyl ether  
TBA = tert-butyl alcohol  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tert-butyl ether  
TAME = tert-Amyl methyl ether  
DO = Dissolved oxygen  
1,2-DCA = 1,2-dichloroethane  
EDB = 1,2-dibromoethane  
Ft msl = Feet above mean sea level  
J3 = The associated batch QC was outside the established quality control range for precision.  
-- = Not analyzed/applicable/measured/available  
< = Not detected at or above specified laboratory reporting limit  
mg/L = Milligrams per liter  
µg/L = Micrograms per liter  
Values for DO and pH were obtained through field measurements  
GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008; the analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through August 6, 2009 and EPA method 8260B (C6-C12) from March 4, 2010 to the present

Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Ave, Oakland CA



Well ID	Date	Type	TOC (ft ms)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft ms)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes	
MW-1	03/07/1991		169.75	20.59	--	149.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/01/1991		169.75	16.51	0.15	153.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	07/03/1992		169.75	22.30	0.27	147.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/05/1992		169.75	23.98	0.24	145.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	01/13/1993		169.75	17.03	0.24	152.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/23/1993		169.75	18.10	0.42	151.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	07/12/1993		169.75	22.02	0.49	147.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/21/1993		169.75	25.12	1.09	143.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	01/21/1994		169.75	23.02	0.76	145.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/20/1994		169.75	24.54	1.8	143.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	08/01/1994		169.75	24.11	0.35	145.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	12/23/1994		169.75	18.19	--	151.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	01/26/1995		169.75	16.25	1.1	152.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	06/08/1995		169.75	22.92	--	146.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	08/22/1995		169.75	24.45	0.85	144.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/27/1995		169.75	25.41	--	143.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	01/25/1996		169.75	18.20	--	151.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/19/1996		169.75	19.06	1.22	149.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	07/23/1996		169.75	22.98	0.89	145.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/11/1996		169.75	23.99	0.89	144.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	01/21/1997		169.75	16.80	0.9	152.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/29/1997		169.75	21.90	0.85	147.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/30/1997	Dup	--	--	--	--	92,000	--	3,500	8,100	4,400	23,800	6,900	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	04/30/1997		--	--	--	--	100,000	--	3,600	8,000	4,000	21,300	7,700	--	--	--	--	--	--	--	5.2	--	--	
MW-1	08/21/1997	Dup	169.75	23.40	--	146.35	120,000	--	3,200	8,100	3,800	19,600	5,200	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	08/21/1997		169.75	23.40	--	146.35	140,000	--	3,000	8,500	3,900	22,100	5,700	--	--	--	--	--	--	--	5.3	--	--	
MW-1	11/05/1997	Dup	169.75	23.70	--	145.51	88,000	--	7,300	4,800	3,600	16,900	8,200	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	11/05/1997		169.75	23.70	--	145.51	68,000	--	6,200	4,400	3,300	14,300	8,000	--	--	--	--	--	--	--	4.7	--	--	
MW-1	02/03/1998		169.75	13.63	0.32	155.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	02/04/1998	Dup	--	--	--	--	160,000	--	2,300	8,400	5,000	29,400	<10,000	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	02/04/1998		--	--	--	--	190,000	--	2,200	10,000	5,600	32,000	<10,000	--	--	--	--	--	--	--	5.3	--	--	
MW-1	05/28/1998		169.75	18.03	0.17	151.55	87,000	--	980	3,900	3,600	19,000	2,900	--	--	--	--	--	--	--	3.8	--	--	
MW-1	12/30/1998		169.75	19.50	0.08	150.17	70,000	--	530	3,200	2,900	16,000	3,600	--	--	--	--	--	--	--	--	--	--	
MW-1	02/02/1999		169.75	18.93	0.03	150.79	79,000	--	480	3,100	3,500	21,000	3,500	--	--	--	--	--	--	--	--	--	--	
MW-1	05/10/1999		169.75	18.28	0.03	151.44	110,000	--	160	1,900	3,700	24,000	3,000	--	--	--	--	--	--	--	--	--	--	
MW-1	08/24/1999		169.75	20.13	0.06	149.56	110,000	--	850	1,300	1,900	19,000	<50	--	--	--	--	--	--	--	--	--	--	
MW-1	11/03/1999		169.75	22.27	0.36	147.12	65,000	--	6,300	1,100	3,300	9,500	8,900	--	--	--	--	--	--	--	--	--	--	
MW-1	03/01/2000		169.75	14.79	0.23	154.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	04/21/2000		169.75	18.10	0.33	151.32	61,000	--	330	780	2,700	17,000	1,300	--	--	--	--	--	--	--	--	--	--	
MW-1	07/31/2000		169.75	21.60	0.53	147.62	1,500,000	--	340	2,100	24,000	120,000	2,700	--	--	--	--	--	--	--	--	--	--	
MW-1	11/20/2000		169.75	21.69	0.37	147.69	1,700,000	--	1,800	2,300	19,000	93,000	3,900	--	--	--	--	--	--	--	--	--	--	
MW-1	02/18/2001		169.75	16.70	0.13	152.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	02/26/2001		169.75	14.38	0.15	155.22	100,000	--	658	466	4,210	15,000	1,890	--	--	--	--	--	--	--	--	--	--	
MW-1	06/07/2001		169.75	20.78	--	148.97	70,000	--	705	440	3,870	12,200	2,720	--	--	--	--	--	--	--	--	--	--	
MW-1	09/05/2001		169.75	23.36	0.35	146.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/30/2001		169.75	20.85	0.41	148.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	12/06/2001		169.75	18.72	0.27	150.76	39,000	--	3,500	237	2,150	4,500	5,400	--	--	--	--	--	--	--	--	--	--	
MW-1	02/20/2002		169.75	17.43	0.15	152.17	52,000	--	465	271	1,600	11,400	106	--	--	--	--	--	--	--	--	--	--	
MW-1	06/20/2002		169.75	21.18	0.34	148.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	09/11/2002		169.75	22.86	0.4	146.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/12/2002		169.75	22.65	0.37	146.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	01/29/2003		169.75	18.15	0.3	151.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	05/22/2003		169.75	18.49	0.2	151.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	06/24/2003		169.75	21.44	0.35	147.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	07/28/2003		169.75	22.72	0.35	146.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	08/12/2003		169.75	22.64	0.23	146.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	09/12/2003		169.75	20.70	0.24	148.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/18/2003		169.75	21.70	0.25	148.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	02/23/2004		169.75	16.34	0.09	153.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	05/04/2004		169.75	21.28	0.16	148.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	08/04/2004		169.75	22.54	0.1	147.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	09/22/2004		169.75	22.76	0.2	147.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/10/2004		169.75	20.19	0.14	149.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	01/13/2005		169.75	14.58	0.03	155.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	02/15/2005		169.75	16.13	0.04	153.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	03/07/2005		169.75	13.31	0.01	156.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	05/16/2005		169.75	15.74	0.02	154.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	08/17/2005		169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/18/2005		169.75	20.15	--	149.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	02/07/2006		169.75	15.19	0.01	154.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	05/19/2006		169.75	17.42																				









Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Ave, Oakland CA



Well ID	Date	Type	TOC (ft ms)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft ms)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-4	11/05/1997		170.36	22.34	--	148.02	60	--	<0.5	<1.0	<1.0	<1.0	76	--	--	--	--	--	--	--	4.9	--	
MW-4	02/03/1998		170.36	12.26	--	158.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	05/28/1998		170.36	18.50	--	151.86	70	--	<0.5	<1.0	<1.0	<1.0	160	--	--	--	--	--	--	--	4.2	--	
MW-4	12/30/1998		170.36	19.69	--	150.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/02/1999		170.36	18.26	--	152.10	70	--	<1.0	<1.0	<1.0	<1.0	130	--	--	--	--	--	--	--	--	--	
MW-4	05/10/1999		170.36	17.86	--	152.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/24/1999		170.36	17.93	--	152.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/03/1999		170.36	22.78	--	147.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	03/01/2000		170.36	18.04	--	152.32	<50	--	<0.5	0.67	<0.5	0.7	110	--	--	--	--	--	--	--	--	--	
MW-4	04/21/2000		170.36	17.36	--	153.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	07/31/2000		170.36	17.83	--	152.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/20/2000		170.36	18.91	--	151.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/18/2001		170.36	17.72	--	152.64	88	--	<0.5	<0.5	<0.5	<0.5	97.3	--	--	--	--	--	--	--	--	--	
MW-4	06/07/2001		170.36	20.23	--	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	09/05/2001		170.36	22.76	--	147.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/30/2001		170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/20/2002		170.36	19.32	--	151.04	76	--	<0.5	<0.5	<0.5	<1.0	81	--	--	--	--	--	--	--	--	--	
MW-4	06/20/2002		170.36	20.71	--	149.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	09/11/2002		170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/12/2002		170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	01/29/2003		170.36	19.80	--	150.56	100	--	<0.5	<0.5	<0.5	<0.5	66	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<40	--	--	
MW-4	05/22/2003		170.36	19.35	--	151.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	07/28/2003		170.36	22.18	--	148.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/18/2003		170.36	21.65	--	148.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/23/2004		170.36	17.53	--	152.83	75	--	<0.50	<0.50	<0.50	<0.50	65	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-4	05/04/2004		170.36	20.62	--	149.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/04/2004		170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/10/2004		170.36	20.65	--	149.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/15/2005		170.36	18.91	--	151.45	<50	--	<0.50	<0.50	<0.50	<0.50	62	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-4	05/16/2005		170.36	17.34	--	153.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/17/2005		170.36	21.31	--	149.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/18/2005		170.36	21.67	--	148.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/07/2006		170.36	16.74	--	153.62	100	--	<0.50	<0.50	1	3	29	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	--	--	
MW-4	05/19/2006		170.36	18.22	--	152.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/23/2006		170.36	20.95	--	149.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/15/2006		170.36	22.21	--	148.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/14/2007		170.36	18.25	--	152.11	<50	--	<0.50	<0.50	<0.50	<0.50	61	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	0.95	--	
MW-4	05/22/2007		170.36	20.16	--	150.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/15/2007		170.36	22.34	--	148.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/08/2007		170.36	21.86	--	148.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/20/2008		170.36	17.74	--	152.62	<50	--	<0.50	<0.50	<0.50	<0.50	36	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<100	2.13	--	
MW-4	05/07/2008		170.36	21.38	--	148.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/20/2008		170.36	22.44	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/17/2008		170.36	22.20	--	148.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/25/2009		170.36	16.81	--	153.55	<50	--	<0.50	<0.50	<0.50	<0.50	26	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<300	2.8	--	
MW-4	05/28/2009		170.36	20.37	--	149.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/06/2009		170.36	22.46	--	147.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	03/04/2010		170.36	17.11	--	153.25	<50	--	<0.50	<0.50	<0.50	<1.0	34	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<100	0.63	--	(P)
MW-4	09/02/2010		170.36	20.63	--	149.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	03/15/2011		170.36	16.47	--	153.89	<50	--	<0.50	<0.50	<0.50	<1.0	26	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-4	08/17/2011		170.36	20.94	--	149.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/06/2012		170.36	19.65	--	150.71	<50	--	<0.50	<0.50	<0.50	<1.0	32	<4.0	<0.50	<0.50	<0.50	<0.50(*)	<0.50	<250	--	--	(P)
MW-4	08/21/2012		170.36	22.00	--	148.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/04/2013		170.36	19.43	--	150.93	<50	--	<0.50	<0.50	<0.50	<1.0	34	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-4	08/01/2013		170.36	22.43	--	147.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/27/2014		170.36	20.64	--	149.72	<50	--	<0.50	<0.50	<0.50	<1.0	24	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-4	08/27/2014		170.36	22.24	--	148.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	03/27/2015		170.36	20.23	--	150.13	<50	--	<0.50	<0.50	<0.50	<1.0	22	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<500	3.5	--	
MW-4	08/27/2015		170.36	21.87	--	148.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	03/28/2016		170.36	16.29	--	154.07	<100	--	<1.00	<5.00	<1.00	<3.00	15	<5.00	<1.00	<1.00J3	<1.00	<1.00	<1.00	<100	2.27	--	
MW-4	09/07/2016		170.36	21.21	--	149.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	07/09/1990		--	--	--	--	280	--	200	210	46	290	--	--	--	--	--	--	--	--	--	--	
MW-5	12/21/1990		--	--	--	--	0.69	--	300	34	8.4	39	--	--	--	--	--	--	--	--	--	--	
MW-5	03/07/1991		165.14	16.60	--	148.54	--	--	17	0.9	0.7	1.6	--	--	--	--	--	--	--	--	--	--	
MW-5	04/01/1991		165.14	11.99	--	153.15	800	--	250	54	11	60	--	--	--	--	--	--	--	--	--	--	
MW-5	06/27/1991		--	--	--	--	330	--	120	10	12	8	--	--	--	--	--	--	--	--	--	--	
MW-5	09/27/1991		--	--	--	--	0.73	--	230	16	20	22	--	--	--	--	--	--	--	--	--	--	
MW-5	07/03/1992		165.14	18.65	--	146.49	150	--	36	<0.5	<0.5	1.1	--	--	--	--	--	--	--	--	--	--	
MW-5	10/05/1992		165.14	20.32	--	144.82	270	--	79	4	1.7	2.9	--	--	--	--	--	--	--	--	--	--	
MW-5	01/13/1993		165.14	13.03	--	152.11	180	--	59	6	1.8	7.6	--	--	--	--	--	--	--	--	--	--	
MW-5	04/23/1993		165.14	13.51	--	15																	







Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Ave, Oakland CA



Well ID	Date	Type	TOC (ft/msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-7	02/04/2013		168.08	17.60	--	150.48	<500	--	<0.50	<0.50	<0.50	<1.0	290	<4.0	<0.50	<0.50	<0.50	<0.50	6.4	<250	--	--	
MW-7	08/01/2013		168.08	20.68	--	147.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	02/27/2014		168.08	18.86	--	149.22	<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	08/27/2014		168.08	19.68	--	148.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/27/2015		168.08	18.09	--	149.99	<50	--	<0.50	<0.50	<0.50	<1.0	240	<20	<0.50	<0.50	<0.50	<0.50	3.3	<500	3.42	--	
MW-7	08/27/2015		168.08	19.59	--	148.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	03/28/2016		168.08	13.92	--	154.16	222	--	<1.00	<5.00	<1.00	<3.00	458	<5.00	<1.00	<1.00J3	<1.00	<1.00	7	<100	2.51	--	
MW-7	09/07/2016		168.08	18.90	--	149.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	03/07/1991		165.74	16.72	--	149.02	2.7	--	780	450	64	310	--	--	--	--	--	--	--	--	--	--	
MW-8	04/01/1991		165.74	12.54	--	153.20	15,000	--	3,600	2,600	410	1,900	--	--	--	--	--	--	--	--	--	--	
MW-8	06/27/1991		--	--	--	--	12,000	--	3,400	1,100	240	750	--	--	--	--	--	--	--	--	--	--	
MW-8	09/27/1991		--	--	--	--	41	--	5,700	5,200	1,100	4,300	--	--	--	--	--	--	--	--	--	--	
MW-8	12/18/1991		--	--	--	--	3.2	--	990	150	120	250	--	--	--	--	--	--	--	--	--	--	
MW-8	07/03/1992		165.74	18.78	--	146.96	72,000	--	19,000	32,000	3,000	15,000	--	--	--	--	--	--	--	--	--	--	
MW-8	10/05/1992		165.74	20.48	--	145.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	01/13/1993		165.74	12.87	--	152.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	04/23/1993		165.74	13.90	--	151.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	07/12/1993		165.74	18.30	--	147.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	10/21/1993		165.74	21.91	--	142.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	01/21/1994		165.74	19.12	--	146.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	04/20/1994		165.74	19.28	--	146.46	26,000	--	1,700	4,100	960	4,000	632	--	--	--	--	--	--	--	1.1	--	
MW-8	12/23/1994		165.74	13.81	--	151.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	06/08/1995		165.74	17.82	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	08/22/1995		165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	10/27/1995		165.74	20.47	--	145.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	01/25/1996		165.74	13.35	--	152.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	04/19/1996		165.74	14.40	--	151.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	07/23/1996		165.74	18.35	--	147.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/11/1996		165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	01/21/1997		165.74	12.29	--	153.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	08/21/1997		165.74	19.61	--	146.13	240,000	--	1,100	9,300	4,100	31,100	<1,000	--	--	--	--	--	--	--	5.2	--	
MW-8	11/05/1997		165.74	19.45	--	146.29	57,000	--	790	2,700	2,300	15,200	<1,000	--	--	--	--	--	--	--	5	--	
MW-8	02/03/1998		165.74	9.33	--	156.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	02/04/1998		--	--	--	--	94,000	--	570	1,500	2,100	15,200	<2,500	--	--	--	--	--	--	--	5.5	--	
MW-8	12/30/1998		165.74	15.48	--	150.26	120,000	--	460	2,300	2,200	15,000	150	--	--	--	--	--	--	--	--	--	
MW-8	02/02/1999		165.74	18.29	--	147.45	82,000	--	450	2,200	3,700	26,000	<500	--	--	--	--	--	--	--	--	--	
MW-8	05/10/1999		165.74	15.62	--	150.12	28,000	--	740	1,800	1,100	5,800	<25	--	--	--	--	--	--	--	--	--	
MW-8	08/24/1999		165.74	18.41	--	147.33	75,000	--	530	1,400	3,300	21,000	150	--	--	--	--	--	--	--	--	--	
MW-8	11/03/1999		165.74	18.71	--	147.03	70,000	--	600	1,300	3,600	20,500	750	--	--	--	--	--	--	--	--	--	
MW-8	03/01/2000		165.74	19.37	--	146.37	27,000	--	1,600	1,200	2,600	6,600	120	--	--	--	--	--	--	--	--	--	
MW-8	11/20/2000		165.74	17.42	--	148.32	1,300,000	--	1,400	1,700	20,000	16,000	5,700	--	--	--	--	--	--	--	--	--	
MW-8	09/05/2001		165.74	21.45	0.04	144.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/30/2001		165.74	18.31	--	147.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	02/20/2002		165.74	14.02	--	151.72	20,000	--	163	114	403	3,810	80.4	--	--	--	--	--	--	--	--	--	
MW-8	06/20/2002		165.74	17.56	--	148.18	28,000	--	466	141	962	5,850	2,520	--	--	--	--	--	--	--	--	--	
MW-8	09/11/2002		165.74	19.45	--	146.29	190,000	--	1,500	670	4,500	23,000	1,200	--	--	--	--	--	--	--	--	--	
MW-8	11/12/2002		165.74	19.15	--	146.59	420	--	6.4	2.9	16	110	31	--	--	--	--	--	--	--	--	--	
MW-8	01/29/2003		165.74	15.02	--	150.72	200,000	--	810	<500	2,000	11,000	<500	<2,000	<50	<50	<50	<50	<50	<4,000	--	--	
MW-8	05/22/2003		165.74	15.07	--	150.67	--	--	--	--	--	--	--	<1,000	--	<25	<25	--	<25	<5,000	--	--	
MW-8	06/24/2003		165.74	17.95	--	147.79	43,000	--	860	300	2,100	9,600	46	--	--	--	--	--	--	--	--	--	
MW-8	07/28/2003		165.74	19.45	--	146.29	62,000	--	690	230	1,800	15,000	2,100	<4,000	<100	<100	<100	<100	<100	<20,000	--	--	
MW-8	08/12/2003		165.74	19.40	0.01	146.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	09/12/2003		165.74	19.34	--	146.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/18/2003		165.74	18.80	0.01	146.94	8,800	--	500	37	530	930	1,700	<400	--	<10	<10	--	20	<2,000	--	--	
MW-8	02/23/2004		165.74	12.82	0.01	152.92	32,000	--	840	360	1,000	7,100	110	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	05/04/2004		165.74	18.87	0.01	146.87	42,000	--	570	230	1,700	8,400	2,000	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-8	08/04/2004		165.74	19.37	0.05	146.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	09/22/2004		165.74	19.60	--	146.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/10/2004		165.74	16.58	--	149.16	11,000	--	790	61	1,000	830	74	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-8	02/15/2005		165.74	12.85	--	152.89	38,000	--	1,300	390	2,300	7,900	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	05/16/2005		165.74	12.22	--	153.52	31,000	--	1,000	360	2,500	7,500	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	08/17/2005		165.74	17.80	--	147.94	60,000	--	540	240	2,500	8,600	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	11/18/2005		165.74	21.02	--	144.72	33,000	--	340	120	1,400	4,900	140	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	02/07/2006		165.74	10.73	--	155.01	5,700	--	94	27	260	820	7.5	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	
MW-8	05/19/2006		165.74	13.89	--	151.85	40,000	--	1,100	320	2,900	6,000	<25	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	
MW-8	08/23/2006		165.74	18.85	--	146.89	21,000	--	520	150	1,800	6,300	82	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	
MW-8	11/15/2006		165.74	18.75	--	146.99	3,300	--	81	<25	130	430	110	<1,000	<25	<25	<25	<25	<25	<15,000	0.81	--	
MW-																							



Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Ave, Oakland CA



Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes						
MW-8	09/02/2010		165.74	18.52	--	147.22	6,900	--	180	24	280	480	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	--	(P)	
MW-8	03/15/2011		165.74	11.03	--	154.71	14,000	--	470	150	1,400	3,000	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1,200	--	--	--	(P)
MW-8	08/17/2011		165.74	17.14	--	148.60	4,100	--	180	24	280	340	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	--	(P)	
MW-8	02/06/2012		165.74	15.07	--	150.67	5,100	--	140	18	210	220	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,900	--	--	--	(P)	
MW-8	08/21/2012		165.74	18.88	--	146.86	3,600	--	220	25	170	170	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	--		
MW-8	02/04/2013		165.74	14.88	--	150.86	2,300	--	71	13	150	230	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	--		
MW-8	08/01/2013		165.74	18.96	--	146.78	5,300	--	140	20	220	190	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	--		
MW-8	02/27/2014		165.74	16.30	--	149.44	4,900	--	200	26	200	110	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	--		
MW-8	08/27/2014		165.74	18.66	--	147.08	6,400	--	170	29	290	240	<5.0	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	2.49	80	--		
MW-8	03/27/2015		165.74	16.10	--	149.64	6,300	--	140	25	380	310	<5.0	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	1.48	--	--	(odor)	
MW-8	08/27/2015		165.74	18.39	--	147.35	5,800	--	94.2	14.7	112	62.9	<1.00	<5.00	<1.00	<1.00	<1.00	--	<1.00	--	<1.00	<1.00	<1.00	<100	8.61	--	--		
MW-8	03/28/2016		165.74	10.72	--	155.02	14,100	--	167	53.8	835	1,330	<50.0	3.70J	<1.00	<1.00J3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<100	1.5	--	--		
MW-8	09/07/2016		165.74	17.63	--	148.11	8,220	--	49.8	12.3J	245	180	<5.0	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<500	0.32	--	--		
MW-9	03/07/1991		166.20	16.79	--	149.41	7.1	--	220	4	2.4	2,400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	04/01/1991		166.20	12.89	--	153.31	14,000	--	2,000	2,600	360	1,600	<10	<80	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2,000	--	--	--		
MW-9	06/27/1991		--	--	--	--	3,600	--	520	400	85	310	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	09/27/1991		--	--	--	--	3.2	--	720	150	50	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	12/18/1991		--	--	--	--	--	--	2.5	1.1	0.3	5.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	07/03/1992		166.20	18.89	--	147.31	5,700	--	17,000	840	230	800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/05/1992		166.20	20.52	--	145.68	1,400	--	440	17	14	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	01/13/1993	Dup	166.20	12.92	--	153.28	11,000	--	1,200	1,600	330	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-9	01/13/1993		166.20	12.92	--	153.28	11,000	--	1,200	1,700	340	1,400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	04/23/1993		166.20	14.08	--	152.12	24,000	--	2,800	4,500	730	3,400	350	2,600	<5.0	<5.0	<5.0	<5.0	12	<1,000	--	--	--	--	--	--	--		
MW-9	07/12/1993	Dup	166.20	18.44	--	147.76	10,000	--	1,200	900	310	1,200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-9	07/12/1993		166.20	18.44	--	147.76	13,000	--	1,400	1,100	360	1,400	20.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/21/1993		166.20	21.81	--	143.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	01/21/1994		166.20	19.28	--	146.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	04/20/1994	Dup	166.20	19.72	--	146.48	45,000	--	2,700	6,800	1,200	8,200	740	160	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<500	--	--	--	--	--	--	(Dup)	
MW-9	04/20/1994		166.20	19.72	--	146.48	43,000	--	2,800	6,800	1,300	7,900	768	--	--	--	--	--	--	--	--	1.7	--	--	--	--	--	--	
MW-9	08/01/1994		166.20	20.18	--	146.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	12/23/1994		166.20	14.22	--	151.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	01/26/1995		166.20	11.85	--	154.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	06/08/1995		166.20	18.33	--	147.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	08/22/1995		166.20	19.95	--	146.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/27/1995		166.20	20.88	--	145.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	01/25/1996		166.20	13.84	--	152.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	07/23/1996		166.20	18.84	--	147.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/11/1996		166.20	19.91	--	146.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	01/21/1997		166.20	12.93	--	153.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	04/29/1997		166.20	18.03	0.1	148.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	04/30/1997		--	--	--	--	78,000	--	1,900	3,600	3,100	20,600	<5,000	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<100	5.5	--	--	--	--	--	--	
MW-9	08/21/1997		166.20	19.56	--	146.64	110,000	--	2,100	3,400	2,300	18,800	<500	--	--	--	--	--	--	--	--	5.1	--	--	--	--	--	--	
MW-9	11/05/1997		166.20	20.59	0.01	145.60	59,000	--	1,400	1,700	2,200	17,000	<500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	02/03/1998		166.20	10.56	--	155.64	55,000	--	490	1,200	1,400	10,200	<1,000	--	--	--	--	--	--	--	--	4.9	--	--	--	--	--	--	
MW-9	05/28/1998	Dup	166.20	14.21	--	151.99	53,000	--	290	830	1,400	10,500	<500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	--	--	--	--	(Dup)	
MW-9	05/28/1998		166.20	14.21	--	151.99	430	--	250	1,200	1,500	11,400	<250	4	0.74	<0.50	<0.50	<0.50	<0.50	<17	<100	3.8	--	--	--	--	--		
MW-9	12/30/1998		166.20	15.61	--	150.59	83,000	--	860	1,300	2,400	21,000	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	02/02/1999		166.20	12.33	--	153.87	75,000	--	530	960	1,900	17,000	<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	05/10/1999		166.20	15.67	--	150.53	22,000	--	600	1,500	1,100	4,400	72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	08/24/1999		166.20	19.10	--	147.10	85,000	--	850	1,300	1,700	20,000	<250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/03/1999		166.20	19.58	--	146.62	72,000	--	700	780	1,900	19,000	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	03/01/2000		166.20	13.19	--	153.01	34,000	--	78	490	1,100	8,200	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	04/21/2000		166.20	14.29	--	151.91	55,000	--	260	920	1,500	16,000	<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	07/31/2000		166.20	15.01	--	151.19	1,200,000	--	1,500	6,300	15,000	120,000	1,600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/20/2000		166.20	18.23	--	147.97	320,000	--	3,500	19,000	5,000	40,000	3,900	--															



Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Ave, Oakland CA



Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes	
MW-10	11/12/2002		167.01	20.37	0.07	146.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	01/29/2003		167.01	16.33	0.03	150.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	05/22/2003		167.01	16.32	--	150.69	13,000	--	2,100	850	630	1,600	300	<2,000	--	<50	<50	--	<50	<10,000	--	--	--	
MW-10	06/24/2003		167.01	18.73	0.04	148.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	07/28/2003		167.01	20.39	0.04	146.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	08/12/2003		167.01	20.43	0.01	146.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	09/12/2003		167.01	20.41	--	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	11/18/2003		167.01	19.55	0.01	147.46	9,900	--	2,200	530	320	860	<50	<2,000	--	<50	<50	--	<50	<10,000	--	--	--	
MW-10	02/23/2004		167.01	15.45	0.01	151.56	46,000	--	1,900	2,000	1,800	9,000	180	<4,000	<100	<100	<100	<100	<100	<10,000	--	--	--	
MW-10	05/04/2004		167.01	18.81	0.01	148.20	35,000	--	3,100	3,600	1,400	5,600	<25	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	--	
MW-10	08/04/2004		167.01	18.90	--	148.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	09/22/2004		167.01	20.60	--	146.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	11/10/2004		167.01	17.95	--	149.06	9,800	--	470	91	450	1,700	230	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	--	
MW-10	01/13/2005		167.01	12.21	--	154.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	02/15/2005		167.01	14.19	--	152.82	30,000	--	510	330	1,800	7,200	77	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	--	
MW-10	05/16/2005		167.01	13.85	--	153.16	37,000	--	540	730	2,100	9,200	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	--	
MW-10	08/17/2005		167.01	19.01	--	148.00	15,000	--	1,100	420	1,200	4,100	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	--	
MW-10	11/18/2005		167.01	19.95	--	147.06	12,000	--	1,200	240	550	1,300	16	<500	<12	<12	<12	<12	<12	<2,500	--	--	--	
MW-10	02/07/2006		167.01	12.28	(Sheen)	154.73	22,000	--	340	580	1,300	4,500	73	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	--	
MW-10	05/19/2006		167.01	15.12	--	151.89	40,000	--	690	430	2,600	4,900	<25	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	--	
MW-10	08/23/2006		167.01	20.00	--	147.01	13,000	--	1,500	540	1,200	3,000	<10	<400	<10	<10	<10	<10	<10	<6,000	--	--	--	
MW-10	11/15/2006		167.01	19.84	--	147.17	3,800	--	700	22	67	160	54	<400	<10	<10	<10	<10	<10	<6,000	0.65	--	--	
MW-10	02/14/2007		167.01	14.94	(Sheen)	152.07	37,000	--	350	120	2,400	120	<400	<10	<10	<10	<10	<10	<10	<6,000	2.12	--	--	
MW-10	05/22/2007		167.01	17.17	(Sheen)	149.84	13,000	--	810	130	750	2,200	15	<400	<10	<10	<10	<10	<10	<6,000	0.06	--	--	
MW-10	08/15/2007		167.01	20.30	(Sheen)	146.71	4,400	--	550	38	160	310	<10	<400	<10	<10	<10	<10	<10	<6,000	3.09	--	--	
MW-10	11/08/2007		167.01	19.58	(Sheen)	147.43	13,000	--	970	130	480	1,600	6	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	1.47	--	--	
MW-10	02/20/2008		167.01	14.27	0.05	152.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	05/07/2008		167.01	18.61	--	148.40	16,000	--	970	150	770	2,000	<20	<400	<20	<20	<20	<20	<20	<12,000	2.18	--	--	
MW-10	08/20/2008		167.01	20.71	0.01	146.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	11/17/2008		167.01	19.71	--	147.30	10,000	--	960	57	270	720	23	<400	<20	<20	<20	<20	<20	<12,000	--	--	--	
MW-10	02/25/2009		167.01	13.10	--	153.91	2,900	--	53	14	69	160	170	280	<10	<10	<10	<10	<10	<6,000	4.06	--	--	
MW-10	04/08/2009		167.01	15.91	--	151.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	05/28/2009		167.01	17.37	(Sheen)	149.64	15,000	--	640	280	790	2,500	65	110	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	0.03	--	--	
MW-10	06/16/2009		167.01	18.79	0.01	148.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	08/06/2009		167.01	20.19	(Sheen)	146.82	23,000	--	850	490	1,200	4,100	<25	<500	<25	<25	<25	<25	<25	<15,000	0.06	--	--	
MW-10	03/04/2010		167.01	12.32	--	154.69	12,000	--	71	72	740	1,800	<2.5	160	<2.5	<2.5	<2.5	<2.5	<2.5	<500	0.56	--	(P)	
MW-10	09/02/2010		167.01	19.63	--	147.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b,j)
MW-10	03/15/2011		167.01	13.20	--	153.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b,j)
MW-10	08/17/2011		167.01	18.27	--	148.74	4,000	--	780	39	250	290	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P)	
MW-10	02/06/2012		167.01	16.32	--	150.69	6,300	--	1,100	39	340	470	<5.0	<40	<5.0	<5.0	<5.0	<5.0(*)	<5.0	<2,500	--	--	(P)	
MW-10	08/21/2012		167.01	19.66	0.02	147.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)
MW-10	02/04/2013		167.01	15.75	(Sheen)	151.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	08/01/2013		167.01	20.03	0.01	146.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)
MW-10	02/27/2014		167.01	17.65	0.01	149.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	08/27/2014		167.01	19.69	0.01	147.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	03/27/2015		167.01	17.19	0.01	149.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b,j)
MW-10	08/27/2015		167.01	19.26	0.02	147.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)
MW-10R	03/28/2016		166.80	12.50	--	154.30	38,000	--	3,830	2,810	1,130	5,310	1.3	40.5	<1.00	<1.00J3	<1.00	<1.00	<1.00	<1.00	1.82	--	--	
MW-10R	06/19/2016		166.80	17.51	--	149.29	24,800	--	447	68.8	1,090	1,950	<1.00	18.9	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.32	--	--	
MW-10R	09/07/2016		166.80	18.43	--	148.37	32,300	--	2,520	693	3,010	8,140	<50.0	<250	<50.0	<50.0	<50.0	<50.0	<50.0	<5,000	0.24	--	--	
MW-11	03/28/2016		165.64	11.32	--	154.32	<100	--	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00J3	<1.00	<1.00	<1.00	<1.00	1.12	--	--	
MW-11	06/19/2016		165.64	15.71	--	149.93	197	--	<1.00	<5.00	<1.00	<3.00(J3)	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.35	--	--	
MW-11	09/07/2016		165.64	17.91	--	147.73	244	--	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.20	--	--	
RW-1	03/07/1991		168.01	17.62	--	150.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	04/01/1991		168.01	14.40	--	153.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	07/03/1992		168.01	20.66	--	147.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	10/05/1992		168.01	23.34	--	144.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	01/13/1993		168.01	16.59	--	151.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	04/23/1993		168.01	16.17	--	151.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	07/12/1993		168.01	20.18	--	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	10/21/1993		168.01	25.70	--	142.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	01/21/1994		168.01	21.24	--	146.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	04/20/1994		168.01	32.20	--	1																		

Table 3  
 Historical Groundwater Monitoring and Analytical Data  
 CA-11132  
 3201 35th Ave, Oakland CA



Well ID	Date	Type	TOC (ft msf)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msf)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
RW-1	04/19/1996	Dup	168.01	16.83	--	151.18	33,000	--	5,600	3,200	1,700	8,800	15,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	04/19/1996		168.01	16.83	--	151.18	35,000	--	5,500	3,300	1,700	9,400	14,000	--	--	--	--	--	--	--	7.6	--	(Dup)
RW-1	07/23/1996	Dup	168.01	20.76	--	147.25	47,000	--	3,700	2,500	930	5,300	35,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	07/23/1996		168.01	20.76	--	147.25	46,000	--	3,600	2,300	900	5,100	36,000	--	--	--	--	--	--	--	7.4	--	(Dup)
RW-1	11/11/1996	Dup	168.01	21.73	--	146.28	31,000	--	2,900	1,000	860	4,600	22,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/11/1996		168.01	21.73	--	146.28	34,000	--	3,000	1,200	880	4,600	22,000	--	--	--	--	--	--	--	8.3	--	(Dup)
RW-1	01/21/1997	Dup	168.01	14.20	--	153.81	270	--	42	17	2.7	36	1,500	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	01/21/1997		168.01	14.20	--	153.81	260	--	40	16	2.7	34	1,500	--	--	--	--	--	--	--	6.1	--	(Dup)
RW-1	04/29/1997		168.01	19.15	--	148.86	32,000	--	3,100	590	1,300	6,000	46,000	--	--	--	--	--	--	--	5.3	--	(Dup)
RW-1	08/21/1997		168.01	20.67	--	147.34	7,600	--	730	58	370	1,780	9,500	--	--	--	--	--	--	--	4.7	--	(Dup)
RW-1	11/05/1997		168.01	21.01	--	147.00	39,000	--	2,300	86	1,300	3,840	56,000	--	--	--	--	--	--	--	4.5	--	(Dup)
RW-1	02/03/1998		168.01	10.68	--	157.33	3,400	--	31	11	29	161	3,200	--	--	--	--	--	--	--	5.1	--	(Dup)
RW-1	05/28/1998		168.01	15.55	--	152.46	2,000	--	90	15	60	305	2,700	--	--	--	--	--	--	--	4.3	--	(Dup)
RW-1	12/30/1998		168.01	17.35	--	150.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	02/02/1999		168.01	14.58	--	153.43	82,000	--	2,300	120	2,000	3,200	78,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	05/10/1999		168.01	16.00	--	152.01	15,000	--	620	88	340	660	61,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/24/1999		168.01	20.00	--	148.01	52,000	--	1,400	170	2,200	2,900	37,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/03/1999		168.01	20.39	--	147.62	17,000	--	2,500	86	1,500	970	54,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	03/01/2000		168.01	12.97	--	155.04	17,000	--	580	78	790	1,100	13,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	04/21/2000		168.01	16.02	--	151.99	31,000	--	2,100	100	1,400	1,100	39,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	07/31/2000		168.01	21.89	--	146.12	47,000	--	1,300	170	2,700	2,300	30,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/20/2000		168.01	19.15	--	148.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	02/18/2001		168.01	15.35	--	152.66	14,000	--	589	89	600	712	13,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	06/07/2001		168.01	19.09	--	148.92	28,000	--	1,140	68.2	504	530	19,100	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	09/05/2001		168.01	22.06	0.02	145.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/30/2001		168.01	19.53	--	148.48	20,000	--	405	39.4	545	740	8,260	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	02/20/2002		168.01	15.99	--	152.02	13,000	--	469	29	434	655	7,240	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	06/20/2002		168.01	19.31	--	148.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	09/11/2002		168.01	21.07	0.03	146.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/12/2002		168.01	20.92	0.02	147.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	01/29/2003		168.01	16.31	0.04	151.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	05/22/2003		168.01	16.68	--	151.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	06/24/2003		168.01	19.76	0.07	148.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	07/28/2003		168.01	21.04	0.04	146.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/12/2003		168.01	21.41	0.01	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	09/12/2003		168.01	21.10	0.07	146.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/18/2003		168.01	20.10	0.01	147.91	12,000	--	770	<50	320	250	6,100	11,000	--	<50	<50	--	160	<10,000	--	--	(Dup)
RW-1	02/23/2004		168.01	14.35	0.01	153.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	05/04/2004		168.01	19.58	0.02	148.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/04/2004		168.01	22.05	0.05	146.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	09/22/2004		168.01	21.28	0.06	146.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/10/2004		168.01	18.56	0.02	149.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	01/13/2005		168.01	12.51	0.01	155.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	02/15/2005		168.01	15.24	0.03	152.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	03/07/2005		168.01	11.90	0.02	156.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	05/16/2005		168.01	14.39	0.02	153.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/17/2005		168.01	19.91	0.03	148.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/18/2005		168.01	20.36	0.07	147.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	02/07/2006		168.01	12.87	0.01	155.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	05/19/2006		168.01	15.87	0.04	152.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/23/2006		168.01	20.50	0.07	147.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/15/2006		168.01	20.52	0.07	147.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	02/14/2007		168.01	15.44	0.04	152.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	05/22/2007		168.01	17.78	(Sheen)	150.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/15/2007		168.01	20.80	0.02	147.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/08/2007		168.01	20.32	0.01	147.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	02/20/2008		168.01	14.55	0.02	153.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/20/2008		168.01	21.34	0.02	146.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/17/2008		168.01	20.41	--	147.60	13,000	--	120	<20	590	320	120	<400	<20	<20	<20	<20	<20	<12,000	--	--	(Dup)
RW-1	02/25/2009		168.01	13.40	0.02	154.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	04/08/2009		168.01	16.45	--	151.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	05/28/2009		168.01	17.88	0.01	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	06/16/2009		168.01	19.30	0.01	148.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	08/06/2009		168.01	20.72	0.01	147.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	03/04/2010		168.01	12.33	--	155.68	8,000	--	20	<2.5	230	140	110	45	<2.5	<2.5	<2.5	<2.5	5.7	<500	1.24	--	(P)
RW-1	09/02/2010		168.01	20.14	--	147.87	4,700	--	18	<2.5	78	46	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<500	--	--	(NP)
RW-1	03/15/2011		168.01	13.03	--	154.98	7,000	--	3.7	<2.5	44	31	6.7	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,200	--	--	(P)
RW-1	08/17/2011		168.01	18.60	--	149.41	2,800	--	7.5	<2.5	12	10	8.8	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	(P)
RW-1	02/06/2012		168.01	16.81	--	151.20	1,300	--	3.1	<2.5	5.2	5.1	2.9	<20	<2.5	<2.5	<2.5	<2.5(*)	<2.5	<1,300	--	--	(P)
RW-1	08/21/2012		168.01	20.06	--	147.95																	

**Table 3**  
**Historical Groundwater Monitoring and Analytical Data**  
**CA-11132**  
**3201 35th Ave, Oakland CA**

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes	
OW-1	09/07/2016		--	19.74	0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)

**Notes:**  
 TOC = Top of casing measured  
 DTW = Depth to water  
 LNAPL = Light non-aqueous phase liquid (LPH)  
 GW Elev = Groundwater elevation  
 GRO = Gasoline range organics  
 B = Benzene  
 T = Toluene  
 E = Ethylbenzene  
 X = Total xylenes  
 MTBE = Methyl tert-butyl ether  
 TBA = tert-butyl alcohol  
 DIPE = Di-isopropyl ether  
 ETBE = Ethyl tert-butyl ether  
 TAME = tert-Amyl methyl ether  
 DO = Dissolved oxygen  
 1,2-DCA = 1,2-dichloroethane  
 EDB = 1,2-dibromoethane  
 Ft msl = Feet above mean sea level  
 DUP = Duplicate sample  
 -- = Not analyzed/applicable/measured/available  
 < = Not detected at or above specified laboratory reporting limit  
 mg/L = Milligrams per liter  
 µg/L = Micrograms per liter  
 NP = Well not purged prior to sampling  
 P = Well purged prior to sampling  
 b = GWE adjusted assuming a specific gravity of 0.75 for free product  
 j = Well not sampled due to presence of LPH and nature of the product  
 J = The associated batch QC was outside the established quality control range for precision.  
 t = Sheen in well  
 y = Sample dilution was done with headspace in the sample vial; the samples were originally analyzed from VOAs without headspace  
 \* = LCS or LCS D exceeds the control limits  
 Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list; TPHg was changed to GRO; the resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported  
 Beginning in the Second Quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12  
 Values for DO and pH were obtained through field measurements  
 GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008; the analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through August 6, 2009 and EPA method 8260B (C6-C12) from March 4, 2010 to the present  
 The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants; Broadbent & Associates, Inc. has not verified the accuracy of this information

**Table 4**  
**Historical Groundwater Flow Direction and Gradient**  
**CA-11132**  
**3201 35th Avenue**  
**Oakland, California**



Design & Consultancy  
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Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	Southwest	0.006
2/20/2008	Southeast	0.008
5/7/2008	South-Southwest	0.003
8/20/2008	South-Southwest	0.007
11/17/2008	South-Southwest	0.005
2/25/2009	Southeast	0.01
5/28/2009	South	0.004
8/6/2009	South-Southwest	0.005
3/4/2010	East-Southeast	0.02
9/2/2010	Southwest	0.01
3/15/2011	Southeast	0.01
8/17/2011	Southwest	0.003
2/6/2012	Southeast	0.005
8/21/2012	Southwest	0.007
2/4/2013	Southwest	0.01
8/1/2013	Southwest	0.007
2/27/2014	South-Southwest	0.007
8/27/2014	West-Northwest	0.01
3/27/2015	West	0.004
8/27/2015	West-Northwest	0.01
3/28/2016	South	0.007
9/7/2016	Southwest	0.005

**Notes:**

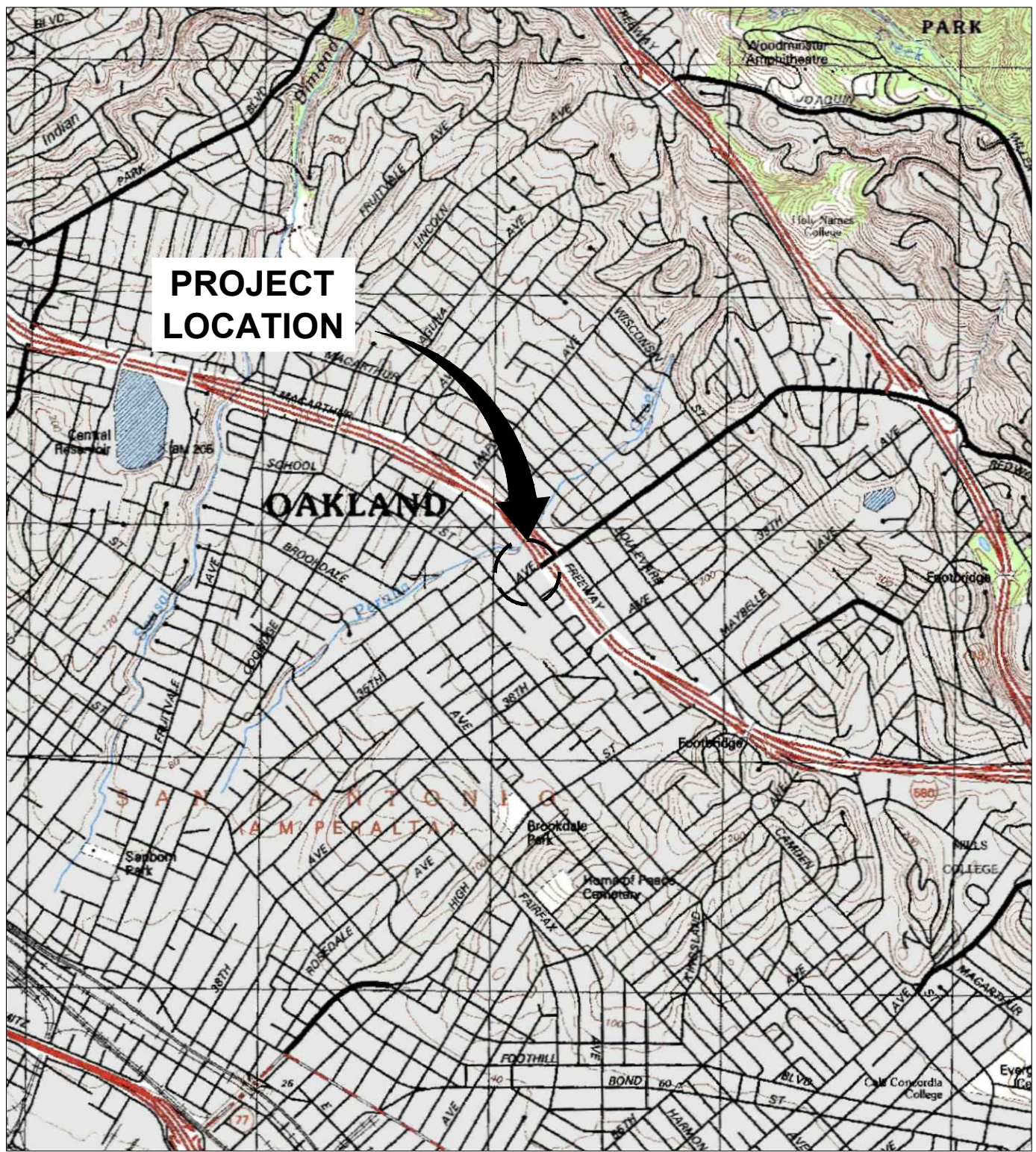
ft/ft = feet per foot

The data within this table collected prior to April 2006 were provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

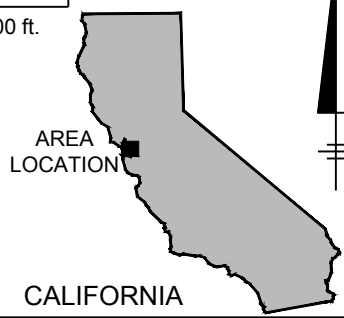
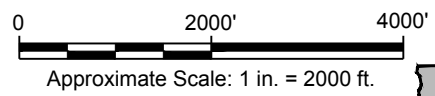
# FIGURES




CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS ID: PIC: PM: H. PHILLIPS TM: J. PETERSON L YR: 01/01/2016 OFF: REF.  
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REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND EAST, CALIFORNIA, 1997.



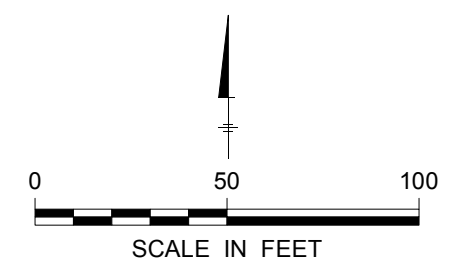
FORMER BP STATION No. 11132 3201 35TH AVENUE OAKLAND, CALIFORNIA	
<b>SITE LOCATION MAP</b>	
	<b>Design &amp; Consultancy</b> for natural and built assets
FIGURE	<b>1</b>





- LEGEND:**
- GROUNDWATER MONITORING WELL
  - GROUNDWATER RECOVERY WELL
  - OBSERVATION WELL
  - SOIL VAPOR EXTRACTION WELL
  - SOIL VAPOR MONITORING WELL
  - SOIL BORING
  - CPT/UVOST LOCATION
  - SOIL GAS BORING
  - AIR SPARGE WELL
  - ABANDONED MONITORING WELL
  - PROPERTY BOUNDARIES
  - PROPERTY BOUNDARY
  - CANOPY
  - UNDERGROUND STORAGE TANKS

**NOTES:**  
 1. PARCEL DATA BOUNDARIES FROM ALAMEDA COUNTY WEBB SERVER  
<https://www.acgov.org/government/geospatial.htm>

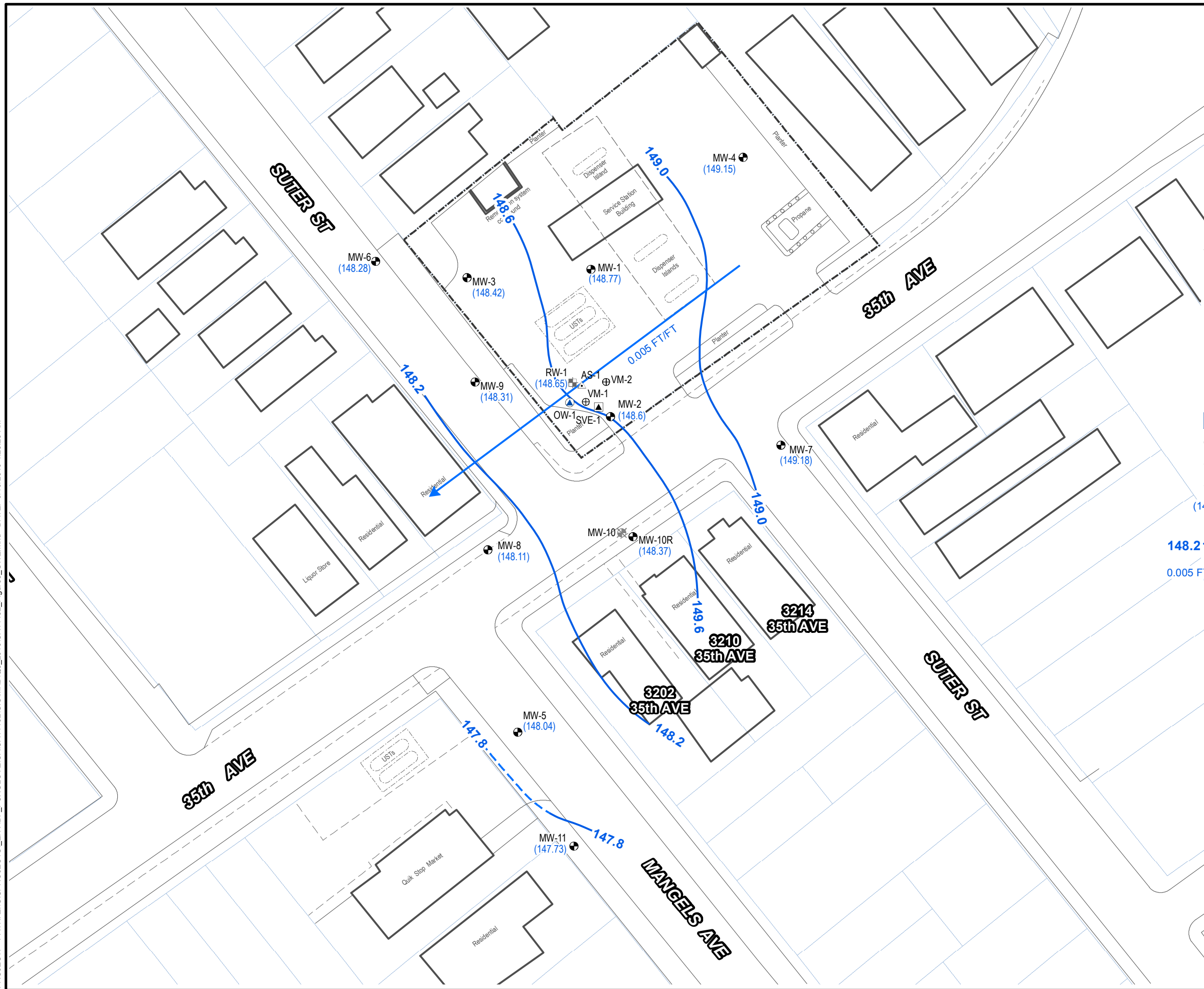


FORMER BP SERVICE STATION #11132  
 3201 35TH AVENUE  
 OAKLAND, CALIFORNIA

**SITE PLAN**

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

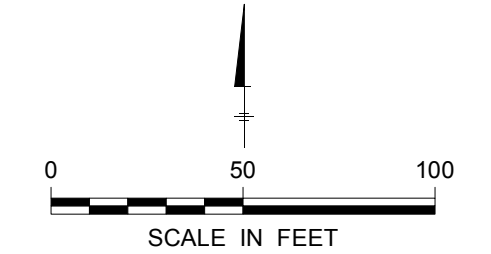
FIGURE **2**



**LEGEND:**

- GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊙ OBSERVATION WELL
- ▲ SOIL VAPOR EXTRACTION WELL
- ⊕ SOIL VAPOR MONITORING WELL
- △ AIR SPARGE WELL
- ⊗ ABANDONED MONITORING WELL
- ▭ PROPERTY BOUNDARIES
- - - PROPERTY BOUNDARY
- - - CANOPY
- - - UNDERGROUND STORAGE TANKS
- (148.77) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 148.2 — GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
- 0.005 FT/FT → GROUNDWATER FLOW DIRECTION (FOOT PER FOOT)

**NOTES:**  
 1. PARCEL DATA BOUNDARIES FROM ALAMEDA COUNTY WEBB SERVER  
<https://www.acgov.org/government/geospatial.htm>



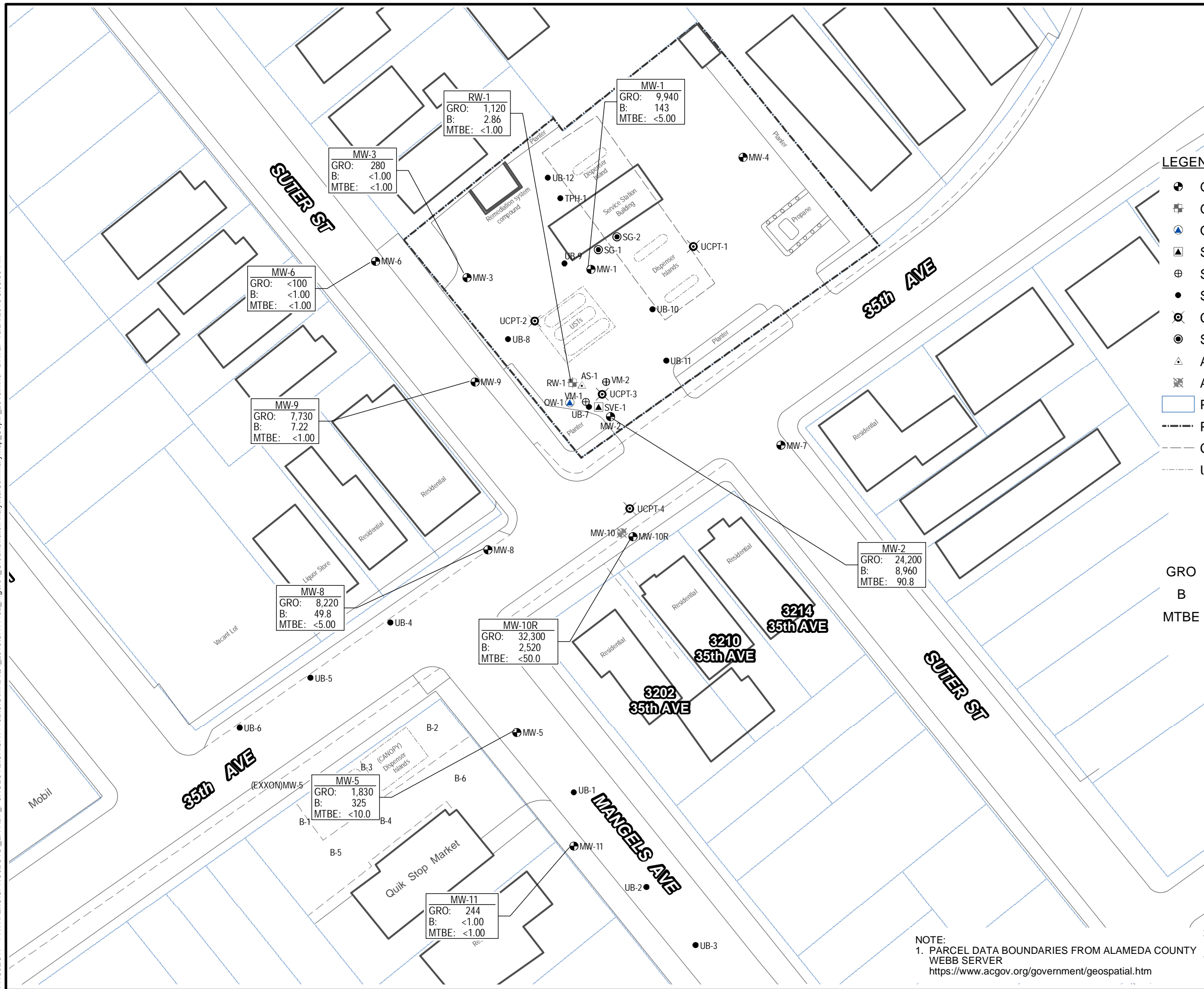
FORMER BP SERVICE STATION #11132  
 3201 35TH AVENUE  
 OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION MAP  
 SEPTEMBER 7, 2016**

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

FIGURE **3**

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: kgpieters LD: PIC: PM: TM: DATE: 10/24/2016 3:08:00 PM  
 PROJECT: PATH: Z:\GIS\PROJECTS\ENR\BP\_FOXGLOVE\CACA11132\GIS\MXD\IQ4\_2016\CACA11132\_Figure4\_GroundwaterAnalyticalSummaryMap\_Sep17\_2016.mxd

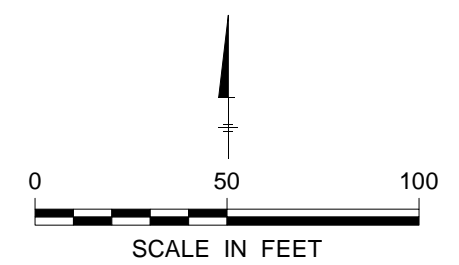


**LEGEND:**

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- OBSERVATION WELL
- SOIL VAPOR EXTRACTION WELL
- SOIL VAPOR MONITORING WELL
- SOIL BORING
- CPT/UVOST LOCATION
- SOIL GAS BORING
- AIR SPARGE WELL
- ABANDONED MONITORING WELL
- PROPERTY BOUNDARIES
- PROPERTY BOUNDARY
- CANOPY
- UNDERGROUND STORAGE TANKS

MW-1		SAMPLE LOCATION ID
GRO:	9,940	CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
B:	143	
MTBE:	<5.00	
		ANALYTE

- GRO GASOLINE RANGE ORGANICS
- B BENZENE
- MTBE METHYL TERTIARY-BUTYL ETHER



FORMER BP SERVICE STATION #11132  
 3201 35TH AVENUE  
 OAKLAND, CALIFORNIA

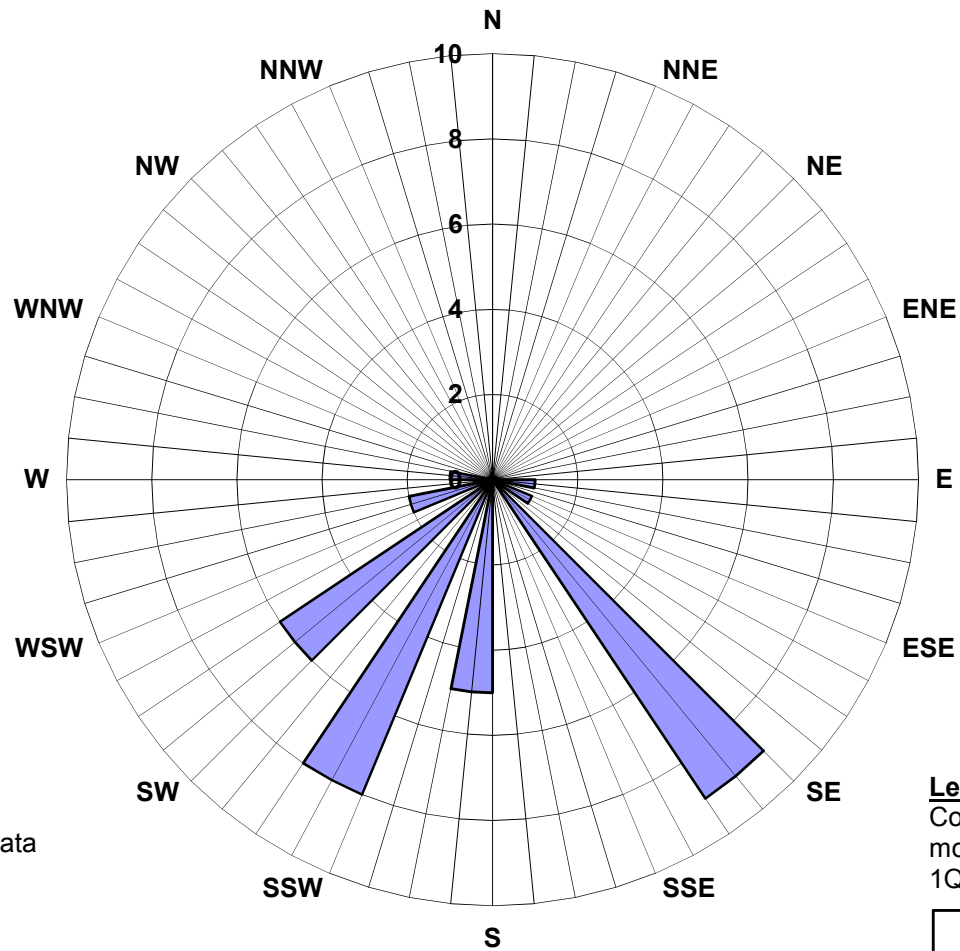
**GROUNDWATER ANALYTICAL SUMMARY MAP**  
 SEPTEMBER 7, 2016

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

NOTE:  
 1. PARCEL DATA BOUNDARIES FROM ALAMEDA COUNTY WEBB SERVER  
<https://www.acgov.org/government/geospatial.htm>

**Figure 5**  
**GROUNDWATER FLOW DIRECTION ROSE DIAGRAM**

CA BP 11132  
3201 35th Ave  
Oakland, California 94619



**Note**  
Groundwater gradient and flow data beginning 1Q05 through 3Q11 monitoring events provided by Broadbent & Associates, Inc.

**Legend**  
Concentric circles represent 33 monitoring events beginning 1Q05 through 3Q16.  
■ Groundwater Flow Direction

# ATTACHMENT 1

Groundwater Sampling Data Package



## WELL GAUGING DATA

Project # 1100907-DJ1 Date 9/7/10 Client ARCADIS

Site 3201 75th Ave. Oakland, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0900	2					20.98	31.72		
MW-2	0831	2					19.54	28.51		
MW-3	0847	2					18.75	33.14		
MW-4	0854	2					21.21	34.93		
MW-5	0810	2					17.10	28.36		
MW-6	0759	2					17.12	34.51		
MW-7	0828	2					18.90	34.60		
MW-8	0812	2					17.63	33.20		
MW-9	0755	2					17.89	25.99		
MW-10R	082A	2					18.43	22.91		
MW-11	0820	2					17.91	22.69		
RW-1	0842	6					19.36	38.70		
OW-1	0830	2		19.58	0.15		19.74	—		

## BP WELL MONITORING DATA SHEET

Project #: 160907-DJ1	Station #: 1132
Sampler: DJ	Date: 9/7/16
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 31.32	Depth to Water: 20.98
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

**Purge Method:**

Bailer  
 Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Other: \_\_\_\_\_

Waterra  
 Peristaltic  
 Extraction Pump

**Sampling Method:**

Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: Hydrosleeve

**Instruments Used:**

Myron L Ultrameter  
 Durham Geoslope Indicator  
 GeoTech Interface Probe  
 MMC Interface Probe  
 HACH Turbidimeter  
 YSI 556 Flow-Thru Cell  
 YSI 550 DO Meter  
 Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_  
 \_\_\_\_\_ (Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.  
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2) 2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1122	74.8	6.91	650.	13	—	

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Date: 9/7/16 Sampling Time: 1122 Depth to Water: 20.98

Sample I.D.: MW-1 Laboratory: Calscience Other: ESC

Analyzed for: GRO BTEX OXYS ETHANOL (Other) see COC

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	0.22	mg/L
	O.R.P. (if req'd):	Pre-purge:	mV	(Post-purge):	-44 mV

## BP WELL MONITORING DATA SHEET

Project #: 160907-DJ	Station #: 1172
Sampler: DJ	Date: 9/7/10
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 28.51	Depth to Water: 19.54
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

**Purge Method:**

Bailer  
 Disposable Bailer  
 Positive Air Displacement  
 Electric Submersible  
 Other: \_\_\_\_\_

Waterra  
 Peristaltic  
 Extraction Pump

**Sampling Method:**

Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: Hydrastave

**Instruments Used:**

Myron L Ultrameter  
 Durham Geoslope Indicator  
 GeoTech Interface Probe  
 MMC Interface Probe  
 HACH Turbidimeter  
 YSI 556 Flow-Thru Cell  
 YSI 550 DO Meter  
 Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_

_____ (Gals.) X _____	= _____ Gals.	
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or (μS))	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1207	74.8	8.44	1691	12	—	

Did well dewater? Yes  No  Gallons actually evacuated: —

Sampling Date: 9/7/10 Sampling Time: 1207 Depth to Water: 19.54

Sample I.D.: MW-2 Laboratory: Calscience Other: EDC

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COC

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.98 mg/L
	O.R.P. (if req'd):	Pre-purge:	Post-purge:	-47 mV



## BP WELL MONITORING DATA SHEET

Project #: 160907-DJ1	Station #: 11132
Sampler: DJ	Date: 9/7/16
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 39.14	Depth to Water: 18.75
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

**Purge Method:**

- Bailer  Waterra
- Disposable Bailer  Peristaltic
- Positive Air Displacement  Extraction Pump
- Electric Submersible  Extraction Port
- Other: \_\_\_\_\_

**Sampling Method:**

- Bailer  Dedicated Tubing
- Disposable Bailer  Other: Hydracore

**Instruments Used:**

- Myron L Ultrameter  HACH Turbidimeter
- Durham Geoslope Indicator  YSI 556 Flow-Thru Cell
- GeoTech Interface Probe  YSI 530 DO Meter
- MMC Interface Probe  Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_

_____ (Gals.) X _____	= _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2)	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1136	74.7	6.95	749	13	—	

Did well dewater? Yes  (No)  Gallons actually evacuated: —

Sampling Date: 9/7/16 Sampling Time: 1136 Depth to Water: 18.75

Sample I.D.: MW-3 Laboratory: Calscience Other: EJC

Analyzed for: GRO BTEX OXYS ETHANOL Other: see COC

Duplicate I.D.: \_\_\_\_\_ Analyzed for: GRO BTEX OXYS ETHANOL Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.40 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-37 mV

## BP WELL MONITORING DATA SHEET

Project #: 160907-DJ1	Station #: 1132
Sampler: DJ	Date: 9/7/10
Well I.D.: MW-5	Well Diameter: ② 3 4 6 8
Total Well Depth: 28.76	Depth to Water: 17.10
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

Purge Method:	Sampling Method:	Instruments Used:
Bailer	Waterra	Myron L Ultrameter
Disposable Bailer	Peristaltic	Durham Geoslope Indicator
Positive Air Displacement	Extraction Pump	GeoTech Interface Probe
Electric Submersible	Extraction Port	MMC Interface Probe
Other: _____	Dedicated Tubing	HACH Turbidimeter
Model #: _____	Other: hydraserve	YSI 556 Flow-Thru Cell
	Pump Depth: 27	YSI 580 DO Meter
		Other: _____

\_\_\_\_\_ (Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
0919	71.1	6.72	1337	74	—	

Did well dewater?      Yes      (No)      Gallons actually evacuated: —

Sampling Date: 9/7/10      Sampling Time: 0919      Depth to Water: 17.10

Sample I.D.: MW-5      Laboratory: Calscience      Other: ESC

Analyzed for: GRO BTEX OXYS ETHANOL      Other: SO2 COC

Duplicate I.D.:      Analyzed for: GRO BTEX OXYS ETHANOL      Other:

D.O. (if req'd):	Pre-purge: 0.29 mg/L	Post-purge: 0.29 mg/L
O.R.P. (if req'd):	Pre-purge: -76 mV	Post-purge: -74 mV

## BP WELL MONITORING DATA SHEET

Project #: 110907-DJ1	Station #: 11132
Sampler: DJ	Date: 9/7/10
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth: 34.51	Depth to Water: 17.12
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: -	

**Purge Method:**

**Sampling Method:**

**Instruments Used:**

Bailer  Waterra   
 Disposable Bailer  Peristaltic   
 Positive Air Displacement  Extraction Pump   
 Electric Submersible   
 Other: \_\_\_\_\_

Bailer   
 Disposable Bailer   
 Extraction Port   
 Dedicated Tubing   
 Other: Hydravac

Myron L Ultrameter  HACH Turbidimeter   
 Durham Geoscope Indicator  YSI 556 Flow-Thru Cell   
 GeoTech Interface Probe  YSI 550 DO Meter   
 MMC Interface Probe  Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_

_____ (Gals.) X _____	= _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2) 2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations/DTW
1047	82.5	7.71	597	280	-	

Did well dewater? Yes  No  Gallons actually evacuated: -

Sampling Date: 9/7/10 Sampling Time: 1047 Depth to Water: 17.12

Sample I.D.: MW-4 Laboratory: Calscience Other: ESC

Analyzed for: GRO BTEX OXYS ETHANOL Other: SRL COC

Duplicate I.D.: \_\_\_\_\_ Analyzed for: GRO BTEX OXYS ETHANOL Other: \_\_\_\_\_

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L Post-purge: 1.03 mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: 32 mV

## BP WELL MONITORING DATA SHEET

Project #: 160907-DJ1	Station #: 11132
Sampler: JT	Date: 9/7/14
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8
Total Well Depth: 29.20	Depth to Water: 17.63
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

**Purge Method:**

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Other: \_\_\_\_\_

- Waterra
- Peristaltic
- Extraction Pump

**Sampling Method:**

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydroprobe

**Instruments Used:**

- Myron L Ultrameter
- Durham Geoslope Indicator
- GeoTech Interface Probe
- MMC Interface Probe
- HACH Turbiditymeter
- YSI 556 Flow-Thru Cell
- YSI 550 DO Meter
- Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_

_____ (Gals.) X _____	= _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2) 2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1158	77.7	6.67	1083	40	—	ODOR

Did well dewater? Yes  No  Gallons actually evacuated: —

Sampling Date: 9/7/14 Sampling Time: 1158 Depth to Water: 17.63

Sample I.D.: MW-8 Laboratory: Calscience Other: ESC

Analyzed for: GRO BTEX OXYS ETHANOL Other: SR2 COC

Duplicate I.D.: \_\_\_\_\_ Analyzed for: GRO BTEX OXYS ETHANOL Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.32	mg/L
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-42
					mV

## BP WELL MONITORING DATA SHEET

Project #: 160907-DJ1	Station #: 1132
Sampler: DJ	Date: 9/7/10
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8
Total Well Depth: 25.99	Depth to Water: 17.89
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

**Purge Method:**

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Other: \_\_\_\_\_

- Waterra
- Peristaltic
- Extraction Pump

**Sampling Method:**

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydrastave

**Instruments Used:**

- Myron L Ultrameter
- Durham Geoslope Indicator
- GeoTech Interface Probe
- MMC Interface Probe
- HACH Turbidimeter
- YSI 556 Flow-Thru Cell
- YSI 550 DO Meter
- Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_

_____ (Gals.) X _____	= _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2) 2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1102	79.6	6.97	777	02	—	

Did well dewater? Yes  No  Gallons actually evacuated: —

Sampling Date: 9/7/10 Sampling Time: 1102 Depth to Water: 17.89

Sample I.D.: MW-9 Laboratory: Calscience Other: ESC

Analyzed for: GRO BTEX OXYS ETHANOL Other: SKL OOC

Duplicate I.D.: Analyzed for: GRO BTEX OXYS ETHANOL Other:

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L Post-purge: 0.24 mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: -1. mV

## BP WELL MONITORING DATA SHEET

Project #: 100907-DJ1	Station #: 11132
Sampler: DJ	Date: 9/7/14
Well I.D.: MW-10R	Well Diameter: (2) 3 4 6 8
Total Well Depth: 22.91	Depth to Water: 18.43
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: -	

**Purge Method:**

- Bailer  Waterra
- Disposable Bailer  Peristaltic
- Positive Air Displacement  Extraction Pump
- Electric Submersible  Extraction Port
- Other: \_\_\_\_\_  Dedicated Tubing

**Sampling Method:**

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: Hydrobovere

**Instruments Used:**

- Myron L Ultrameter  HACH Turbidimeter
- Durham Geoslope Indicator  YSI 556 Flow-Thru Cell
- GeoTech Interface Probe  YSI 550 DO Meter
- MMC Interface Probe Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	(0.16)	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

\_\_\_\_\_ (Gals.) X \_\_\_\_\_ = \_\_\_\_\_ Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or (μS))	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
0941	72.1	6.93	1690	>1000	-	ODOR

Did well dewater?      Yes      (No)      Gallons actually evacuated: -

Sampling Date: 9/7/14      Sampling Time: 0941      Depth to Water: 18.43

Sample I.D.: MW-10R      Laboratory: Calscience      Other: FSC

Analyzed for: GRO BTEX OXYS ETHANOL      Other: SO2 COC

Duplicate I.D.: \_\_\_\_\_      Analyzed for: GRO BTEX OXYS ETHANOL      Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.24	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-113	mV

## BP WELL MONITORING DATA SHEET

Project #: 100907-DJ1	Station #: 11132
Sampler: DJ	Date: 9/7/10
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8
Total Well Depth: 22.69	Depth to Water: 17.91
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: -	

**Purge Method:**

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Other: \_\_\_\_\_

- Waterra
- Peristaltic
- Extraction Pump

**Sampling Method:**

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: HydroPurge

**Instruments Used:**

- Myron L Ultrameter
- Durham Geoslope Indicator
- GeoTech Interface Probe
- MMC Interface Probe
- HAQI Turbidimeter
- YSI 556 Flow-Thru Cell
- YSI 550 DO Meter
- Other: \_\_\_\_\_

Model #: \_\_\_\_\_ Pump Depth: \_\_\_\_\_

_____ (Gals.) X _____	=	_____ Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	(0.16)	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1001	75.0	7.41	877	>1000	-	Turbid

Did well dewater? Yes  No  Gallons actually evacuated: -

Sampling Date: 9/7/10 Sampling Time: 1001 Depth to Water: \_\_\_\_\_

Sample I.D.: MW-11 Laboratory: Calscience Other: ESC

Analyzed for: GRO BTEX OXYS ETHANOL Other: SIL COC

Duplicate I.D.: \_\_\_\_\_ Analyzed for: GRO BTEX OXYS ETHANOL Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge: <u>0.20</u> mg/L	Post-purge: <u>0.20</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u>-71</u> mV	Post-purge: <u>-71</u> mV

## BP WELL MONITORING DATA SHEET

Project #: 160907-DJ1	Station #: 1132
Sampler: DJ	Date: 9/7/16
Well I.D.: RW-1	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 38.70	Depth to Water: 19.96
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

<b>Purge Method:</b> Bailer <input type="checkbox"/> Waterra Disposable Bailer <input type="checkbox"/> Peristaltic Positive Air Displacement <input type="checkbox"/> Extraction Pump Electric Submersible <input type="checkbox"/> Other: _____	<b>Sampling Method:</b> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing <input type="checkbox"/> Other: <u>Hydraskive</u>	<b>Instruments Used:</b> Myron L Ultrameter <input type="checkbox"/> HACH <u>Turbidimeter</u> Durham Geoscope Indicator <input type="checkbox"/> YSI 556 Flow-Thru Cell GeoTech Interface Probe <input type="checkbox"/> YSI 550 <u>DO Meter</u> MMC Interface Probe <input type="checkbox"/> Other: _____
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Model #:	Pump Depth: _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td><u>6"</u></td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	<u>6"</u>	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier															
1"	0.04	4"	0.65															
2"	0.16	<u>6"</u>	1.47															
3"	0.37	Other	radius <sup>2</sup> * 0.163															

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations/ DTW
1220	73.0	7.13	356	14	—	

Did well dewater? Yes  No Gallons actually evacuated: —

Sampling Date: 9/7/16 Sampling Time: 1220 Depth to Water: 19.96

Sample I.D.: RW-1 Laboratory: Calscience Other EDC

Analyzed for: GRO BTEX OXYS ETHANOL Other: SOE COC

Duplicate I.D.: \_\_\_\_\_ Analyzed for: GRO BTEX OXYS ETHANOL Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.18 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-99 mV





# WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client ARCADIS Date 9/7/16  
 Site Address 3201 35th Ave. Oakland, CA  
 Job Number 160907-DJ1 Technician Jeremy D.

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	✓							
MW-2	X							
MW-3	✓							
MW-4 *	✓							
MW-5	X							
MW-6	X							
MW-7	X							
MW-8	X							
MW-9	X							
MW-10R	X							
MW-11	X							
RW-1	X							
OW-1	X							

NOTES: MW-4 : 1/2 volt holes stripped

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# Chain of Custody Record

 ARCADIS Project Name: CA 11132

 Req Due Date (mm/dd/yy): Standard TAT Rush TAT: Yes  No 

Lab Work Order Number: \_\_\_\_\_

Lab Name: ESC Labs				Facility Address: 3201 35th Ave.								Consultant/Contractor: Blaine Tech Services, Inc.							
Lab Address: 12065 Lebanon Rd., Mt. Juliet, TN 37122				City, State, ZIP Code: Oakland, CA								Blaine Tech Project No: ARCADIS/BP- 11132							
Lab PM: Jarred Willis				Lead Regulatory Agency: Alameda County EHS / SF RWQCB								Consultant/Contractor Address: 1680 Rogers Ave., San Jose, CA 95112							
Lab Phone: 615.758.5858				California Global ID No.: T0600100213								Consultant/Contractor PM: Michael Ninokata							
Lab Shipping Acctn:				ARCADIS Project No: GP09BPNA.C112								Phone: 408.573.0555 x202							
Lab Bottle Order No:				ARCADIS PM/ Phone: Megan Smoley								Email EDD To: megan.smoley@arcadis.com							
Other Info:				Email: megan.smoley@arcadis.com								Invoice To: ARCADIS <u>X</u> Contractor _____							
				Matrix		No. Containers / Preservative				Requested Analyses						Report Type & QC Level			
Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO 8015M	BTEX, (5) Oxygenates (8260)	1,2-DCA, EDB, Ethanol (8260)	Standard <u>x</u>		Full Data Package _____	
																Comments			
Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.																			
	1B-11132-09072010	9/7/10	0900	X			5				X		X	X			ON HOLD		
	MW-5		0919	X			5				X		X	X					
	MW-10R		0941	X			5				X		X	X					
	MW-11		1001	X			5				X		X	X					
	MW-6		1047	X			5				X		X	X					
	MW-9		1102	X			5				X		X	X					
	MW-1		1122	X			5				X		X	X					
	MW-3		1136	X			5				X		X	X					
	MW-8		1158	X			5				X		X	X					
	MW-2		1207	X			5				X		X	X					
Sampler's Name: <u>Jeremy de Los Santos</u>				Relinquished By / Affiliation: <u>[Signature]</u>				Date: <u>09/07/10</u>		Time: <u>1440</u>		Accepted By / Affiliation: <u>[Signature]</u>				Date: <u>9/7/10</u>		Time: <u>1440</u>	
Sampler's Company: <u>Blaine Tech Services</u>				Shipment Method: _____				Ship Date: _____				Shipment Tracking No: _____							
Special Instructions: (5) Oxygenates = MTBE, TBA, DIPE, ETBE, TAME																			
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No				Temp Blank: Yes / No				Cooler Temp on Receipt: _____ °F/C				Trip Blank: Yes / No				MS/MSD Sample Submitted: Yes / No			



# ATTACHMENT 2

Certified Laboratory Analytical Report and Chain of Custody Documentation



## ARCADIS US - San Francisco, CA

Sample Delivery Group: L858607  
Samples Received: 09/09/2016  
Project Number: GP09BPNA.C112  
Description: CA-11132 - GP09BPNA.C112  
Site: 3201 35TH AVENUE  
Report To: Megan Smoley  
865 Cotting Lane, Suite C  
Vacaville, CA 95688

Entire Report Reviewed By:



Brian Ford  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b><sup>1</sup>Cp: Cover Page</b>	<b>1</b>
<b><sup>2</sup>Tc: Table of Contents</b>	<b>2</b>
<b><sup>3</sup>Ss: Sample Summary</b>	<b>3</b>
<b><sup>4</sup>Cn: Case Narrative</b>	<b>5</b>
<b><sup>5</sup>Sr: Sample Results</b>	<b>6</b>
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MW-10R L858607-02	7
MW-11 L858607-03	8
MW-6 L858607-04	9
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MW-1 L858607-06	11
MW-3 L858607-07	12
MW-8 L858607-08	13
MW-2 L858607-09	14
RW-1 L858607-10	15
<b><sup>6</sup>Qc: Quality Control Summary</b>	<b>16</b>
Volatile Organic Compounds (GC) by Method 8015	16
Volatile Organic Compounds (GC/MS) by Method 8260B	17
<b><sup>7</sup>Gl: Glossary of Terms</b>	<b>19</b>
<b><sup>8</sup>Al: Accreditations &amp; Locations</b>	<b>20</b>
<b><sup>9</sup>Sc: Chain of Custody</b>	<b>21</b>



# SAMPLE SUMMARY



## MW-5 L858607-01 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 09:19      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	1	09/15/16 15:04	09/15/16 15:04	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	10	09/12/16 22:27	09/12/16 22:27	DAH

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-10R L858607-02 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 09:41      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	100	09/15/16 15:26	09/15/16 15:26	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	50	09/12/16 22:48	09/12/16 22:48	DAH

## MW-11 L858607-03 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 10:01      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	1	09/15/16 15:48	09/15/16 15:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	1	09/12/16 23:10	09/12/16 23:10	DAH

## MW-6 L858607-04 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 10:47      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	1	09/15/16 16:10	09/15/16 16:10	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	1	09/12/16 23:31	09/12/16 23:31	DAH

## MW-9 L858607-05 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 11:02      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	1	09/15/16 16:32	09/15/16 16:32	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	1	09/12/16 23:52	09/12/16 23:52	DAH

## MW-1 L858607-06 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 11:22      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	20	09/15/16 20:27	09/15/16 20:27	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	5	09/13/16 00:13	09/13/16 00:13	DAH

## MW-3 L858607-07 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 11:36      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	1	09/15/16 20:49	09/15/16 20:49	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	1	09/13/16 00:35	09/13/16 00:35	DAH



# SAMPLE SUMMARY



## MW-8 L858607-08 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 11:58      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	10	09/15/16 21:12	09/15/16 21:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	5	09/16/16 13:45	09/16/16 13:45	ACG

1  
Cp

2  
Tc

3  
Ss

## MW-2 L858607-09 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 12:07      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	25	09/15/16 21:34	09/15/16 21:34	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	100	09/13/16 01:17	09/13/16 01:17	DAH

4  
Cn

5  
Sr

6  
Qc

## RW-1 L858607-10 GW

Collected by  
Jeremy De Los S.      Collected date/time  
09/07/16 12:20      Received date/time  
09/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG906634	1	09/15/16 21:57	09/15/16 21:57	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG906669	1	09/16/16 13:22	09/16/16 13:22	ACG

7  
Gl

8  
Al

9  
Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Technical Service Representative

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	1830		30.4	100	1	09/15/2016 15:04	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID)	82.8			62.0-128		09/15/2016 15:04	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	325		3.31	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
Toluene	9.39	J	7.80	50.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
Ethylbenzene	47.3		3.84	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
Total Xylenes	22.1	J	10.6	30.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
1,2-Dichloroethane	U		3.61	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
1,2-Dibromoethane	U		3.81	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
Di-isopropyl ether	U		3.20	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
Ethanol	U		420	1000	10	09/12/2016 22:27	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		2.70	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		3.67	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
tert-Butyl alcohol	U		24.0	50.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		2.60	10.0	10	09/12/2016 22:27	<a href="#">WG906669</a>
(S) Toluene-d8	108			90.0-115		09/12/2016 22:27	<a href="#">WG906669</a>
(S) Dibromofluoromethane	111			79.0-121		09/12/2016 22:27	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	99.3			90.4-116		09/12/2016 22:27	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	84.5			80.1-120		09/12/2016 22:27	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	32300		3040	10000	100	09/15/2016 15:26	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID) 100				62.0-128		09/15/2016 15:26	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	2520		16.6	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
Toluene	693		39.0	250	50	09/12/2016 22:48	<a href="#">WG906669</a>
Ethylbenzene	3010		19.2	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
Total Xylenes	8140		53.0	150	50	09/12/2016 22:48	<a href="#">WG906669</a>
1,2-Dichloroethane	U		18.0	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
1,2-Dibromoethane	U		19.0	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
Di-isopropyl ether	U		16.0	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
Ethanol	U		2100	5000	50	09/12/2016 22:48	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		13.5	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		18.4	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
tert-Butyl alcohol	U		120	250	50	09/12/2016 22:48	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		13.0	50.0	50	09/12/2016 22:48	<a href="#">WG906669</a>
(S) Toluene-d8	108			90.0-115		09/12/2016 22:48	<a href="#">WG906669</a>
(S) Dibromofluoromethane	109			79.0-121		09/12/2016 22:48	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	99.0			90.4-116		09/12/2016 22:48	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	90.7			80.1-120		09/12/2016 22:48	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	244		30.4	100	1	09/15/2016 15:48	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID)	91.2			62.0-128		09/15/2016 15:48	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
Toluene	U		0.780	5.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
Ethylbenzene	U		0.384	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
Total Xylenes	U		1.06	3.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
1,2-Dichloroethane	U		0.361	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
1,2-Dibromoethane	U		0.381	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
Di-isopropyl ether	U		0.320	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
Ethanol	U		42.0	100	1	09/12/2016 23:10	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		0.270	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		0.367	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
tert-Butyl alcohol	U		2.40	5.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/12/2016 23:10	<a href="#">WG906669</a>
(S) Toluene-d8	107			90.0-115		09/12/2016 23:10	<a href="#">WG906669</a>
(S) Dibromofluoromethane	110			79.0-121		09/12/2016 23:10	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	97.4			90.4-116		09/12/2016 23:10	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	88.3			80.1-120		09/12/2016 23:10	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	U		30.4	100	1	09/15/2016 16:10	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID) 101				62.0-128		09/15/2016 16:10	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
Toluene	U		0.780	5.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
Ethylbenzene	U		0.384	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
Total Xylenes	U		1.06	3.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
1,2-Dichloroethane	U		0.361	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
1,2-Dibromoethane	U		0.381	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
Di-isopropyl ether	U		0.320	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
Ethanol	U		42.0	100	1	09/12/2016 23:31	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		0.270	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		0.367	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
tert-Butyl alcohol	U		2.40	5.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/12/2016 23:31	<a href="#">WG906669</a>
(S) Toluene-d8	109			90.0-115		09/12/2016 23:31	<a href="#">WG906669</a>
(S) Dibromofluoromethane	112			79.0-121		09/12/2016 23:31	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	100			90.4-116		09/12/2016 23:31	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	85.8			80.1-120		09/12/2016 23:31	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	7730		30.4	100	1	09/15/2016 16:32	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			62.0-128		09/15/2016 16:32	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	7.22		0.331	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
Toluene	U		0.780	5.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
Ethylbenzene	17.4		0.384	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
Total Xylenes	2.70	<u>J</u>	1.06	3.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
1,2-Dichloroethane	U		0.361	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
1,2-Dibromoethane	U		0.381	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
Di-isopropyl ether	U		0.320	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
Ethanol	U		42.0	100	1	09/12/2016 23:52	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		0.270	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		0.367	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
tert-Butyl alcohol	U		2.40	5.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/12/2016 23:52	<a href="#">WG906669</a>
(S) Toluene-d8	103			90.0-115		09/12/2016 23:52	<a href="#">WG906669</a>
(S) Dibromofluoromethane	108			79.0-121		09/12/2016 23:52	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	95.1			90.4-116		09/12/2016 23:52	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	78.0	<u>J2</u>		80.1-120		09/12/2016 23:52	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	9940		608	2000	20	09/15/2016 20:27	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			62.0-128		09/15/2016 20:27	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	143		1.66	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
Toluene	5.44	J	3.90	25.0	5	09/13/2016 00:13	<a href="#">WG906669</a>
Ethylbenzene	123		1.92	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
Total Xylenes	15.2		5.30	15.0	5	09/13/2016 00:13	<a href="#">WG906669</a>
1,2-Dichloroethane	U		1.80	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
1,2-Dibromoethane	U		1.90	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
Di-isopropyl ether	U		1.60	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
Ethanol	U		210	500	5	09/13/2016 00:13	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		1.35	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		1.84	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
tert-Butyl alcohol	U		12.0	25.0	5	09/13/2016 00:13	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		1.30	5.00	5	09/13/2016 00:13	<a href="#">WG906669</a>
(S) Toluene-d8	108			90.0-115		09/13/2016 00:13	<a href="#">WG906669</a>
(S) Dibromofluoromethane	104			79.0-121		09/13/2016 00:13	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	98.1			90.4-116		09/13/2016 00:13	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	90.7			80.1-120		09/13/2016 00:13	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	280		30.4	100	1	09/15/2016 20:49	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID) 98.7				62.0-128		09/15/2016 20:49	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.331	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
Toluene	U		0.780	5.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
Ethylbenzene	U		0.384	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
Total Xylenes	U		1.06	3.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
1,2-Dichloroethane	U		0.361	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
1,2-Dibromoethane	U		0.381	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
Di-isopropyl ether	U		0.320	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
Ethanol	U		42.0	100	1	09/13/2016 00:35	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		0.270	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		0.367	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
tert-Butyl alcohol	U		2.40	5.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/13/2016 00:35	<a href="#">WG906669</a>
(S) Toluene-d8	109			90.0-115		09/13/2016 00:35	<a href="#">WG906669</a>
(S) Dibromofluoromethane	103			79.0-121		09/13/2016 00:35	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	101			90.4-116		09/13/2016 00:35	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	90.2			80.1-120		09/13/2016 00:35	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	8220		304	1000	10	09/15/2016 21:12	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID)	94.8			62.0-128		09/15/2016 21:12	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	49.8		1.66	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
Toluene	12.3	J	3.90	25.0	5	09/16/2016 13:45	<a href="#">WG906669</a>
Ethylbenzene	245		1.92	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
Total Xylenes	180		5.30	15.0	5	09/16/2016 13:45	<a href="#">WG906669</a>
1,2-Dichloroethane	U		1.80	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
1,2-Dibromoethane	U		1.90	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
Di-isopropyl ether	U		1.60	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
Ethanol	U		210	500	5	09/16/2016 13:45	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		1.35	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		1.84	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
tert-Butyl alcohol	U		12.0	25.0	5	09/16/2016 13:45	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		1.30	5.00	5	09/16/2016 13:45	<a href="#">WG906669</a>
(S) Toluene-d8	109			90.0-115		09/16/2016 13:45	<a href="#">WG906669</a>
(S) Dibromofluoromethane	93.9			79.0-121		09/16/2016 13:45	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	104			90.4-116		09/16/2016 13:45	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	101			80.1-120		09/16/2016 13:45	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C5 - C12	24200		760	2500	25	09/15/2016 21:34	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID) 94.2				62.0-128		09/15/2016 21:34	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	8960		33.1	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
Toluene	122	J	78.0	500	100	09/13/2016 01:17	<a href="#">WG906669</a>
Ethylbenzene	626		38.4	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
Total Xylenes	668		106	300	100	09/13/2016 01:17	<a href="#">WG906669</a>
1,2-Dichloroethane	U		36.1	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
1,2-Dibromoethane	U		38.1	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
Di-isopropyl ether	U		32.0	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
Ethanol	U		4200	10000	100	09/13/2016 01:17	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		27.0	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
Methyl tert-butyl ether	90.8	J	36.7	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
tert-Butyl alcohol	U		240	500	100	09/13/2016 01:17	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		26.0	100	100	09/13/2016 01:17	<a href="#">WG906669</a>
(S) Toluene-d8	108			90.0-115		09/13/2016 01:17	<a href="#">WG906669</a>
(S) Dibromofluoromethane	108			79.0-121		09/13/2016 01:17	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	99.2			90.4-116		09/13/2016 01:17	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	89.4			80.1-120		09/13/2016 01:17	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	1120		30.4	100	1	09/15/2016 21:57	<a href="#">WG906634</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			62.0-128		09/15/2016 21:57	<a href="#">WG906634</a>

1 Cp

2 Tc

3 Ss

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	2.86		0.331	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
Toluene	0.919	J	0.780	5.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
Ethylbenzene	2.28		0.384	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
Total Xylenes	2.66	J	1.06	3.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
1,2-Dichloroethane	U		0.361	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
1,2-Dibromoethane	U		0.381	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
Di-isopropyl ether	U		0.320	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
Ethanol	U		42.0	100	1	09/16/2016 13:22	<a href="#">WG906669</a>
Ethyl tert-butyl ether	U		0.270	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
Methyl tert-butyl ether	U		0.367	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
tert-Butyl alcohol	U		2.40	5.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
tert-Amyl Methyl Ether	U		0.260	1.00	1	09/16/2016 13:22	<a href="#">WG906669</a>
(S) Toluene-d8	107			90.0-115		09/16/2016 13:22	<a href="#">WG906669</a>
(S) Dibromofluoromethane	93.4			79.0-121		09/16/2016 13:22	<a href="#">WG906669</a>
(S) a,a,a-Trifluorotoluene	103			90.4-116		09/16/2016 13:22	<a href="#">WG906669</a>
(S) 4-Bromofluorobenzene	94.5			80.1-120		09/16/2016 13:22	<a href="#">WG906669</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3164082-3 09/15/16 11:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHG C5 - C12	U		30.4	100
<i>(S) a,a,a-Trifluorotoluene(FID)</i>	101			62.0-128

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3164082-1 09/15/16 10:04 • (LCSD) R3164082-2 09/15/16 10:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHG C5 - C12	5500	5830	5690	106	103	64.0-125			2.47	20
<i>(S) a,a,a-Trifluorotoluene(FID)</i>				103	102	62.0-128				

L858607-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L858607-03 09/15/16 15:48 • (MS) R3164082-4 09/15/16 16:54 • (MSD) R3164082-5 09/15/16 17:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHG C5 - C12	5500	244	5890	5900	103	103	1	45.1-139			0.120	20
<i>(S) a,a,a-Trifluorotoluene(FID)</i>					99.7	100		62.0-128				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3164052-3 09/12/16 16:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
1,2-Dibromoethane	U		0.381	1.00
1,2-Dichloroethane	U		0.361	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Ethanol	U		42.0	100
Methyl tert-butyl ether	U		0.367	1.00
Toluene	U		0.780	5.00
Xylenes, Total	U		1.06	3.00
tert-Amyl Methyl Ether	U		0.260	1.00
Ethyl tert-butyl ether	U		0.270	1.00
tert-Butyl alcohol	U		2.40	5.00
(S) Toluene-d8	110			90.0-115
(S) Dibromofluoromethane	112			79.0-121
(S) a,a,a-Trifluorotoluene	101			90.4-116
(S) 4-Bromofluorobenzene	84.8			80.1-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3164052-1 09/12/16 14:33 • (LCSD) R3164052-2 09/12/16 14:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	28.3	28.8	113	115	73.0-122			1.54	20
1,2-Dibromoethane	25.0	22.8	24.0	91.3	95.9	79.8-122			4.87	20
1,2-Dichloroethane	25.0	28.5	29.0	114	116	65.3-126			1.96	20
Di-isopropyl ether	25.0	28.3	28.3	113	113	65.1-135			0.110	20
Ethylbenzene	25.0	23.1	23.4	92.5	93.8	80.9-121			1.35	20
Methyl tert-butyl ether	25.0	24.9	25.8	99.7	103	70.1-125			3.38	20
Toluene	25.0	25.9	26.6	103	106	77.9-116			2.63	20
Xylenes, Total	75.0	66.8	69.8	89.1	93.1	79.2-122			4.37	20
(S) Toluene-d8				106	110	90.0-115				
(S) Dibromofluoromethane				110	110	79.0-121				
(S) a,a,a-Trifluorotoluene				94.1	99.0	90.4-116				
(S) 4-Bromofluorobenzene				87.4	90.0	80.1-120				



L858579-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L858579-08 09/12/16 19:37 • (MS) R3164052-4 09/12/16 18:33 • (MSD) R3164052-5 09/12/16 18:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	U	26.3	26.0	105	104	1	58.6-133			1.04	20
1,2-Dibromoethane	25.0	U	23.6	24.5	94.6	97.9	1	73.8-131			3.41	20
1,2-Dichloroethane	25.0	U	27.9	27.7	112	111	1	60.7-132			0.770	20
Di-isopropyl ether	25.0	U	28.7	28.3	115	113	1	59.9-140			1.29	20
Ethylbenzene	25.0	U	22.2	23.1	88.8	92.2	1	62.7-136			3.78	20
Methyl tert-butyl ether	25.0	U	25.1	25.5	101	102	1	61.4-136			1.61	20
Toluene	25.0	U	24.6	24.6	98.2	98.6	1	67.8-124			0.360	20
Xylenes, Total	75.0	U	66.8	69.1	89.0	92.1	1	65.6-133			3.43	20
<i>(S) Toluene-d8</i>					107	109		90.0-115				
<i>(S) Dibromofluoromethane</i>					110	110		79.0-121				
<i>(S) a,a,a-Trifluorotoluene</i>					97.6	98.1		90.4-116				
<i>(S) 4-Bromofluorobenzene</i>					88.5	91.3		80.1-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

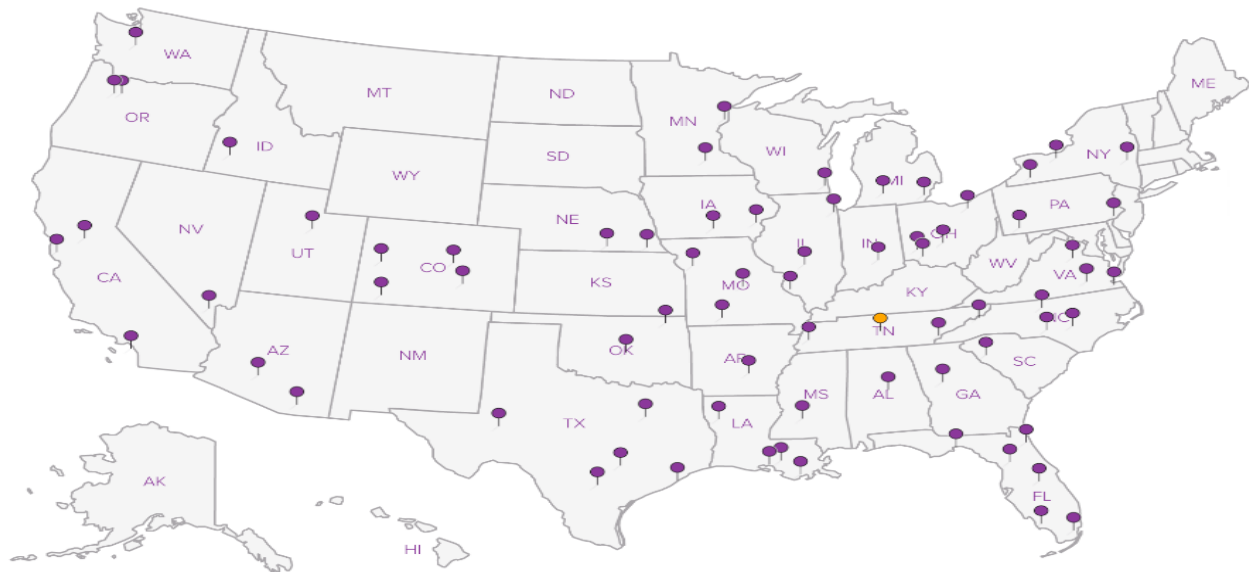
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





Chain of Custody Record

ARCADIS Project Name: CA 11132

Req Due Date (mm/dd/yy): Standard TAT Rush TAT: Yes No x

Lab Work Order Number:

Lab Name: ESC Labs	Facility Address: 3201 35th Ave.	Consultant/Contractor: Blaine Tech Services, Inc.
Lab Address: 12065 Lebanon Rd., Mt. Juliet, TN 37122	City, State, ZIP Code: Oakland, CA	Blaine Tech Project No: ARCADIS/BP- 11132
Lab PM: Jarred Willis	Lead Regulatory Agency: Alameda County EHS / SF RWQCB	Consultant/Contractor Address: 1680 Rogers Ave., San Jose, CA 95112
Lab Phone: 615.758.5858	California Global ID No.: T0600100213	Consultant/Contractor PM: Michael Ninokata
Lab Shipping Acct:	ARCADIS Project No: GP09BPNA.C112	Phone: 408.573.0555 x202
Lab Bottle Order No:	ARCADIS PM/ Phone: Megan Smoley	Email EDD To: <a href="mailto:megan.smoley@arcadis.com">megan.smoley@arcadis.com</a>
Other Info:	Email: <a href="mailto:megan.smoley@arcadis.com">megan.smoley@arcadis.com</a>	Invoice To: ARCADIS <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>

Lab No.	Sample Description	Date	Time	Matrix			No. Containers / Preservative							Requested Analyses						Report Type & QC Level		Comments
				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO 8015M)	BTEX, (5) Oxygenates (8260)	1,2-DCA, EDB, Ethanol (8260)	Standard <input checked="" type="checkbox"/>	Full Data Package <input type="checkbox"/>					
	11132-09072016	9/7/16	0900	X			5							X	X	X					ON HOLD	
	MW-5		0919	X			5							X	X	X					-01	
	MW-10R		0941	X			1							X	X	X					-02	
	MW-11		1001	X			1							X	X	X					-03	
	MW-6		1047	X			1							X	X	X					-04	
	MW-9		1102	X			1							X	X	X					-05	
	MW-1		1122	X			1							X	X	X					-06	
	MW-3		1136	X			1							X	X	X					-07	
	MW-8		1158	X			1							X	X	X					-08	
	MW-2		1207	X			1							X	X	X					-09	

Sampler's Name: Jeremy De Los Santos	Relinquished By / Affiliation: <i>[Signature]</i>	Date: 9/7/16	Time: 1440	Accepted By / Affiliation: <i>[Signature]</i> (Sample Custodian)	Date: 9/7/16	Time: 1440
Sampler's Company: Blaine Tech Services	Relinquished By / Affiliation: <i>[Signature]</i>	Date: 9/18/16	Time: 1407	Accepted By / Affiliation: <i>[Signature]</i> (Sample Custodian)	Date:	Time:
Shipment Method: FEDEX	Ship Date: 9/18/16	Date: 9-9-16	Time: 0900			

Special Instructions: (5) Oxygenates = MTBE, TBA, DIPE, ETBE, TAME

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No

Count = 55 = VP

8088 6484 2596

24 SW7 COC53



## Chain of Custody Record

ARCADIS Project Name: CA 11132

Req Due Date (mm/dd/yy): Standard TAT    Rush TAT: Yes  No

Lab Work Order Number: \_\_\_\_\_

Lab Name: <u>ESC Labs</u>	Facility Address: <u>3201 35th Ave.</u>	Consultant/Contractor: <u>Blaine Tech Services, Inc.</u>
Lab Address: <u>12065 Lebanon Rd., Mt. Juliet, TN 37122</u>	City, State, ZIP Code: <u>Oakland, CA</u>	Blaine Tech Project No: <u>ARCADIS/BP- 11132</u>
Lab PM: <u>Jarred Willis</u>	Lead Regulatory Agency: <u>Alameda County EHS / SF RWQCB</u>	Consultant/Contractor Address: <u>1680 Rogers Ave., San Jose, CA 95112</u>
Lab Phone: <u>615.758.5858</u>	California Global ID No.: <u>T0600100213</u>	Consultant/Contractor PM: <u>Michael Ninokata</u>
Lab Shipping Acctn:	ARCADIS Project No: <u>GP09BPNA.C112</u>	Phone: <u>408.573.0555 x202</u>
Lab Bottle Order No:	ARCADIS PM/ Phone: <u>Megan Smoley</u>	Email EDD To: <u>megan.smoley@arcadis.com</u>
Other Info:	Email: <u>megan.smoley@arcadis.com</u>	Invoice To: <u>ARCADIS</u> <input checked="" type="checkbox"/> Contractor <input type="checkbox"/>

Lab No.	Sample Description	Date	Time	Matrix						No. Containers / Preservative				Requested Analyses						Report Type & QC Level		Comments <small>Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.</small>							
				Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	GRO 8015M)	BTEX, (5) Oxygenates (8260)	1,2-DCA, EDB, Ethanol (8260)							Standard	Full Data Package				
	<u>RW-1</u>	<u>9/7/16</u>	<u>1220</u>	<u>X</u>			<u>5</u>								<u>X</u>	<u>X</u>	<u>X</u>						<u>X</u>	<u>X</u>				<u>LW58607 -10</u>	

Sampler's Name: <u>Jeremy De los Santos</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>9/7/16</u>	Time: <u>1440</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>9/7/16</u>	Time: <u>1440</u>
Sampler's Company: <u>Blaine Tech Services</u>	<u>[Signature]</u> (sample custodian)	<u>9/8/16</u>	<u>1407</u>			
Shipment Method: <u>FED Ex</u> Ship Date: <u>9/8/16</u>	<u>[Signature]</u>	<u>9-9-16</u>	<u>0900</u>			
Shipment Tracking No:						

**Special Instructions:** (5) Oxygenates = MTBE, TBA, DIPE, ETBE, TAME

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No    Temp Blank: Yes / No    Cooler Temp on Receipt: \_\_\_\_\_ °F/C    Trip Blank: Yes / No    MS/MSD Sample Submitted: Yes / No



### Cooler Receipt Form

Client:	SDG#	L258607		
Cooler Received/Opened On: 9/9/16	Temperature Upon Receipt:	2.4 °C		
Received By: Richard Hughes				
Signature: <i>[Handwritten Signature]</i>				
Receipt Check List		Yes	No	N/A
Were custody seals on outside of cooler and intact?				<input checked="" type="checkbox"/>
Were custody papers properly filled out?		<input checked="" type="checkbox"/>		
Did all bottles arrive in good condition?		<input checked="" type="checkbox"/>		
Were correct bottles used for the analyses requested?		<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent in each bottle?				<input checked="" type="checkbox"/>
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)				<input checked="" type="checkbox"/>
If applicable, was an observable VOA headspace present?			<input checked="" type="checkbox"/>	
Non Conformance Generated. (If yes see attached NCF)				

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

## UPLOADING A GEO\_REPORT FILE

**SUCCESS**

Your GEO\_REPORT file has been successfully submitted!

<u>Submittal Type:</u>	GEO_REPORT
<u>Report Title:</u>	11132 3Q 2016 GMR
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Report Date:</u>	10/26/2016
<u>Facility Global ID:</u>	T0600100213
<u>Facility Name:</u>	BP #11132
<u>File Name:</u>	CA 11132 161026 BP 3Q16 GMR.pdf
<u>Organization Name:</u>	ARCADIS
<u>Username:</u>	ARCADISBP
<u>IP Address:</u>	198.135.125.78
<u>Submittal Date/Time:</u>	10/26/2016 11:39:50 AM
<u>Confirmation Number:</u>	7048231661

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