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ARCADIS U.S., Inc.
100 Montgomery Street
Suite 300
San Francisco
California 94104
Tel 415 374 2744
Fax 415 374 2745
www.arcadis-us.com

Mr. Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

ENVIRONMENT

Subject:

**Fourth Quarter 2014 and First Quarter 2015
Semi-Annual Groundwater Monitoring Report**
Former Atlantic Richfield Company Station No. 4931
731 West MacArthur Boulevard
Oakland, California 94609

Date:
April 16, 2015

Dear Mr. Detterman:

Contact:
Hollis Phillips

ARCADIS U.S., Inc (ARCADIS) has prepared this report on behalf of the Atlantic Richfield Company, a BP affiliated company (ARCO), for the former ARCO service station listed below.

Phone:
415.432.6903

<u>ARCO Facility No.</u>	<u>ACEH Site No.</u>	<u>Location</u>
4931	RO0000076	731 West MacArthur Blvd. Oakland, California

Email:
hollis.phillips@arcadis-us.com

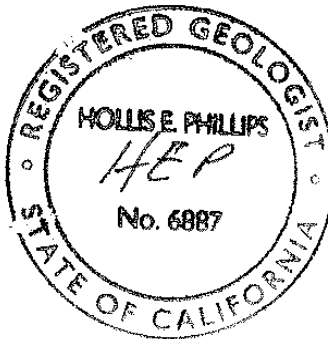
Our ref:
GP09BPNA.C110.N0000

I declare, 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. If you have any questions or comments regarding the content of this report, please contact Hollis Phillips by telephone at 415.432.6903 or by e-mail at hollis.phillips@arcadis-us.com.

Sincerely,

ARCADIS U.S., Inc.

Hollis E. Phillips, P.G. (No. 6887)
Principal Geologist/Project Manager



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Imagine the result

Mr. Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Subject:

**Fourth Quarter 2014 and First Quarter 2015
Semi-Annual Groundwater Monitoring Report**
Former Atlantic Richfield Company Station No. 4931
731 West MacArthur Boulevard
Oakland, California
ACEH Case #RO0000076

Dear Mr. Detterman:

ARCADIS U.S., Inc. (ARCADIS) has prepared this semi-annual groundwater monitoring report to document the results of groundwater monitoring and sampling at the former ARCO service station No. 4931, located at 731 West MacArthur Boulevard in Oakland, California (the Site; Figure 1).

1. Summary

A summary of the work performed at the Site during this reporting period and the proposed work for the next reporting period is provided below.

Work Performed – Reporting Period (October 2014 to March 2015)

- Submitted the *Second and Third Quarter 2014 Semi-Annual Groundwater Monitoring Report*, dated October 31, 2014, to Alameda County Environmental Health (ACEH).
- Performed semi-annual groundwater monitoring and sampling on February 27, 2015 including wells AR-1, AR-2, and AR-3 as requested in the ACEH directive letter dated October 13, 2014 (ACEH 2014).
- Prepared and submitted a *Work Plan for Additional Site Investigation*, including a focused Site Conceptual Model (SCM) dated December 22, 2014, to ACEH per the requests in their directive letter dated October 13, 2014.

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ENVIRONMENT

Date:
4/16/2015

Contact:
Hollis Phillips

Phone:
415.432.6903

Email:
hollis.phillips@arcadis-us.com

Our ref:
GP09BPNA.C110.N0000

Work Proposed – Reporting Period (April 2015 to September 2015)

- Submit the *Fourth Quarter 2014 and First Quarter 2015 Semi-Annual Groundwater Monitoring Report*, contained herein.
- Advance one soil boring west and downgradient of groundwater monitoring well A-8 to collect soil samples and a grab groundwater sample. Additionally, install and sample two soil vapor probes located along the eastern portion of the Site adjacent to the upgradient residential property at 725 West MacArthur Boulevard and incorporate the technical comments provided by ACEH on February 11, 2015 into the work plan (ACEH 2015).
- Submit the *Additional Site Investigation Report*, including an updated sensitive receptor survey, by June 5, 2015 to ACEH per the requests in their directive letter dated February 11, 2015.

2. Background

The Site is a former ARCO service station and is currently operated as a Westco Gasoline-branded retail fuel dispensing facility (Figures 1 and 2). Improvements to the Site include four 10,000-gallon double-wall fiberglass gasoline underground storage tanks (USTs) installed on April 8, 1992. Product lines were excavated, removed, inspected, and replaced on October 2, 2002. Soil boring and well construction details are summarized in Table 1. Previous investigation information and site history are summarized in Appendix A.

3. Groundwater Monitoring/Sampling Activities and Results

Historical and current groundwater monitoring and sampling results are summarized in Table 2. Current groundwater monitoring and sampling data are graphically presented on Figures 3 and 4. A rose diagram illustrating historical groundwater flow directions and gradients is provided on Figure 5.

Before groundwater samples were collected, depth to groundwater was measured to within 0.01 foot below top of casing in groundwater monitoring wells A-2 through A-5, A-7 through A-12, AR-1, and AR-3 using a water level indicator. The total well depth at A-9 could not be accurately gauged due to the obstruction from roots within the well. Groundwater monitoring wells AR-2, A-6 and A-13 could not be gauged due to the wells currently being paved over.

Groundwater monitoring wells A-3, A-4, A-5, A-8, AR-1, and AR-3 were sampled on February 27, 2015 by Broadbent & Associates, Inc. (BAI). Monitoring wells A-2, A-7, A-10, A-11 and A-12 were not sampled in accordance to the sampling schedule. Field activities conducted by BAI were reviewed and certified by a BAI California Professional Geologist. The groundwater sampling data package and laboratory analytical report for the current monitoring period are included in Appendices B and C, respectively.

Collected groundwater samples were submitted under chain-of-custody protocol to TestAmerica Laboratories, Inc. (TestAmerica), a California-certified laboratory located in Pleasanton, California.

Collected groundwater samples from monitoring wells A-3, A-4, A-5, A-8, AR-1, and AR-3 were analyzed for the following:

- Fuel additive methyl tert-butyl ether (MTBE) by USEPA Method 8260.

Collected groundwater samples from monitoring wells A-4, A-5, A-8, AR-1, and AR-3 were additionally analyzed for the following:

- Gasoline range organics (C6-C12) (GRO) using United States Environmental Protection Agency (USEPA) Method 8260B Modified.

Collected groundwater samples from monitoring wells A-4, A-8, AR-1, and AR-3 were additionally analyzed for the following:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), ethylene dibromide (EDB), and 1,2-dichloroethane (1,2-DCA) using USEPA Method 8260B; and
- Tert-amyl-methyl ether (TAME), tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethanol, and ethyl t-butyl ether (ETBE) by USEPA Method 8260B.

4. Discussion

- As shown on Figure 3, groundwater flow direction during the reporting period was to the southwest at an approximate gradient of 0.02 foot per foot (ft/ft). Historical data indicates the groundwater flow direction is predominantly toward the west as shown on Figure 5.

- GRO was detected in three of five wells sampled at concentrations ranging from 370 micrograms per liter ($\mu\text{g/L}$) (A-8) to 660 $\mu\text{g/L}$ (AR-1). GRO was not detected above the laboratory reporting limit of 50 $\mu\text{g/L}$ at the other two wells sampled (A-3 and AR-3).
- Benzene was detected in two of four wells sampled at concentrations of 2 $\mu\text{g/L}$ (AR-1) and 70 $\mu\text{g/L}$ (A-8). Benzene was not detected above the laboratory reporting limit of 0.50 $\mu\text{g/L}$ at the other two wells sampled (A-3 and A-5).
- Total Xylenes was only detected in one of four wells sampled at a concentration of 1.1 $\mu\text{g/L}$ (AR-1). Total xylenes was not detected above the laboratory reporting limit of 1.0 $\mu\text{g/L}$ at the other wells sampled (A-4, A-8, and AR-3).
- MTBE was detected in four of six wells sampled at concentrations ranging from 2.0 $\mu\text{g/L}$ (A-5) to 25 $\mu\text{g/L}$ (AR-1). MTBE was not detected above the laboratory reporting limit of 0.50 $\mu\text{g/L}$ at the other two wells sampled (A-3 and AR-3).
- TAME was detected in two of four wells sampled at concentrations of 4.8 $\mu\text{g/L}$ (A-8) and 7.3 $\mu\text{g/L}$ (AR-1). TAME was not detected above the laboratory reporting limit of 0.50 $\mu\text{g/L}$ at the other wells sampled (A-3 and A-4).
- TBA was detected in three of four wells sampled at concentrations ranging from 61 $\mu\text{g/L}$ (A-8) and 910 $\mu\text{g/L}$ (AR-1). TBA was not detected above the laboratory reporting limit of 20 $\mu\text{g/L}$ at the other well sampled (AR-3).
- Toluene, ethylbenzene, DIPE, ETBE, Ethanol, EDB, and 1,2-DCA were not detected in the four wells (A-4, A-8, AR-1 and AR-3) sampled and analyzed for these constituents.

5. Recommendations

The *Additional Site Investigation Report*, including an updated sensitive receptor survey, will be submitted by June 5, 2015 to ACEH per the requests in their directive letter dated February 11, 2015. Following completion of the site assessment activities ARCADIS recommends that the Site be reevaluated for low-risk case closure according to the LTC Policy.

If you have any questions or comments regarding the contents of this report, please contact Hollis Phillips by telephone (415.432.6903) or by e-mail (hollis.phillips@arcadis-us.com).

Sincerely,

ARCADIS U.S., Inc.

Prepared by:

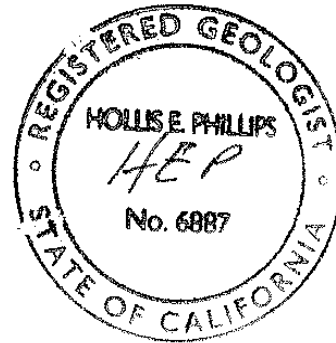


Jamey Peterson
Staff Geologist

Approved by:



Hollis E. Phillips, P.G. (CA 6887)
Principal Geologist/Project Manager



Enclosures:

- | | |
|------------|---|
| Table 1 | Soil Boring and Well Construction Details |
| Table 2 | Historical and Current Groundwater Monitoring and Analytical Data |
| Figure 1 | Site Location Map |
| Figure 2 | Site Plan |
| Figure 3 | Groundwater Elevation Contour Map – February 27, 2015 |
| Figure 4 | Analytical Summary Map – February 27, 2015 |
| Figure 5 | Groundwater Flow Direction Rose Diagram |
| Appendix A | Previous Investigations and Site History Summary |
| Appendix B | Groundwater Sampling Data Package |
| Appendix C | Certified Laboratory Analytical Report |

References:

- ACEH, 2014. *Request for Data Gap Work Plan and Focused Site Conceptual Model; Fuel Leak Case No. RO0000076 and GeoTracker Glocabl ID T0600100110, ARCO #04931, 731 W. Macarthur Blvd., Oakland, CA 94609.* October 13.
- ACEH, 2015. *Conditional Work Plan Approval; Fuel Leak Case No. RO0000076 and GeoTracker Glocabl ID T0600100110, ARCO #04931, 731 W. Macarthur Blvd., Oakland, CA 94609.* February 11.

Copies:

Ms. Dilan Roe, Alameda County Environmental Health (Submitted via ACEH ftp site)

Mr. Nick Goyal, Owner, electronic copy e-mailed (nick@vintnersdist.com)

Electronic copy uploaded to GeoTracker

Tables

Table 1
Soil Boring and Well Construction Details
Former Atlantic-Richfield Oil Company Station No. 4931
731 West MacArthur Boulevard, Oakland, California

Well I.D.	Drill Date	Well		Screen		Screen Length (feet)
		Depth (feet bgs)	Diameter (inches)	Top (feet bgs)	Bottom (feet bgs)	
Monitoring Wells						
A-2	--	--	--	--	--	--
A-3	--	--	--	--	--	--
A-4	--	--	--	--	--	--
A-5	--	--	--	--	--	--
A-6	--	--	--	--	--	--
A-7	--	--	--	--	--	--
A-8	--	--	--	--	--	--
A-9	12/15/87	40	6	5	40	35
A-10	12/15/87	30	3	5	30	25
A-11	12/16/87	30	3	5	30	25
A-12	12/16/87	30	3	5	30	25
A-13	06/15/92	30	3	10	30	20
AR-1	06/15/92	30	6	10	30	20
AR-2	06/15/92	30	6	8	28	20
AR-3	06/16/92	30	4	10	30	20
Soil Vapor Extraction Well						
AV-1	01/17/92	16	2	5	15	10

Notes

-- = Soil Boring Log and Well Construction Details are not available

Wells are constructed of poly-vinyl-chloride (PVC).

bgs = Below ground surface

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-2	6/21/2000		55.48	6.85	--	48.63	<50	--	<0.5	<0.5	<0.5	<1.0	<3.0	--	--	--	--	--	--	--	--	--	
A-2	9/20/2000		55.48	10.45	--	45.03	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-2	12/26/2000		55.48	6.27	--	49.21	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-2	3/20/2001		55.48	4.57	--	50.91	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-2	6/12/2001		55.48	9.27	--	46.21	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-2	9/23/2001		55.48	10.75	--	44.73	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-2	12/31/2001		55.48	4.13	--	51.35	<50	--	<0.5	<0.5	1	3.2	<2.5	--	--	--	--	--	--	--	--	--	
A-2	3/21/2002		55.48	3.26	--	52.22	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-2	4/17/2002		55.48	3.72	--	51.76	<50	--	<0.5	<0.5	<0.5	<0.5	3.1	--	--	--	--	--	--	--	--	--	
A-2	8/12/2002		55.48	9.95	--	45.53	<10	--	<0.10	<0.10	<0.10	<0.10	<0.50	--	--	--	--	--	--	--	--	3.1	
A-2	12/6/2002		55.48	10.01	--	45.47	<50	--	<0.50	<0.50	<0.50	<0.50	6	--	--	--	--	--	--	--	--	3.1	
A-2	1/30/2003		55.48	5.08	--	50.40	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<40	--	--	--	2.6	
A-2	5/28/2003		55.48	4.82	--	50.66	<50	--	<0.50	<0.50	<0.50	<0.50	1.1	<20	<0.50	<0.50	<0.50	<100	--	--	--	5.7	
A-2	8/6/2003		55.48	9.73	--	45.75	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	2.3	
A-2	11/14/2003		55.48	9.36	--	46.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	2/2/2004		60.65	4.45	--	56.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	5/4/2004		60.65	6.79	--	53.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	9/2/2004		60.65	10.51	--	50.14	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	3.1	
A-2	11/10/2004		60.65	6.10	--	54.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	2/2/2005		60.65	4.00	--	56.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	5/9/2005		60.65	4.35	--	56.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/11/2005		60.65	9.08	--	51.57	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	3.2	
A-2	11/18/2005		60.65	8.53	--	52.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	2/15/2006		60.65	3.89	--	56.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	5/30/2006		60.65	4.45	--	56.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/11/2006		60.65	9.03	--	51.62	160	--	<0.50	<0.50	<0.50	<0.50	3.6	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	0.16	
A-2	11/1/2006		60.65	9.98	--	50.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	2/7/2007		60.65	7.51	--	53.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	5/9/2007		60.65	4.57	--	56.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/7/2007		60.65	9.67	--	50.98	<50	--	<0.50	<0.50	<0.50	<0.50	3.4	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	2.18	
A-2	11/14/2007		60.65	7.84	--	52.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	2/28/2008		60.65	3.30	--	57.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	5/23/2008		60.65	8.80	--	51.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/13/2008		60.65	10.20	--	50.45	<50	--	<0.50	<0.50	<0.50	<0.50	19	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	0.87	
A-2	11/19/2008		60.65	9.20	--	51.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	2/10/2009		60.65	7.83	--	52.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	5/7/2009		60.65	4.40	--	56.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	9/3/2009		60.65	10.07	--	50.58	<50	--	<0.50	<0.50	<0.50	<0.50	12	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	1.03	
A-2	3/23/2010		60.65	3.67	--	56.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/16/2010		60.65	9.40	--	51.25	<50	--	<0.50	<0.50	<0.50	<1.0	6.1	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	--	
A-2	3/18/2011		60.65	2.89	--	57.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/18/2011		60.65	7.63	--	53.02	--	--	--	--	--	--	0.74	--	--	--	--	--	--	--	--	--	
A-2	2/29/2012		60.65	8.42	--	52.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/24/2012		60.65	10.54	--	50.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/31/2012		60.65	10.70	--	49.95	--	--	--	--	--	--	9.6	--	--	--	--	--	--	--	--	--	
A-2	2/8/2013		60.65	4.51	--	56.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-2	8/7/2013		60.65	10.07	--	50.58	--	--	--	--	--	--	12	--	--	--	--	--	--	--	--	--	1.50
A-2	2/13/2014		60.65	5.34	--	55.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-2	8/28/2014		60.65	12.11	--	48.54	--	--	--	--	--	--	8.9	--	--	--	--	--	--	--	--	1.33	
A-2	2/27/2015		60.65	4.41	--	56.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-3	6/21/2000		54.66	9.48	--	45.18	<50	--	<0.5	<0.5	<0.5	<1.0	46	--	--	--	--	--	--	--	--	--	
A-3	9/20/2000		54.66	10.24	--	44.42	<50	--	<0.5	<0.5	<0.5	<0.5	89.6	--	--	--	--	--	--	--	--	--	
A-3	12/26/2000		54.66	9.58	--	45.08	<50	--	<0.5	<0.5	<0.5	<0.5	7.11	--	--	--	--	--	--	--	--	--	
A-3	3/20/2001		54.66	6.34	--	48.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	6/12/2001		54.66	9.76	--	44.90	<50	--	<0.5	<0.5	<0.5	<0.5	86	--	--	--	--	--	--	--	--	--	
A-3	9/23/2001		54.66	10.55	--	44.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	12/31/2001		54.66	3.70	--	50.96	<50	--	<0.5	<0.5	<0.5	1	60	--	--	--	--	--	--	--	--	--	
A-3	3/21/2002		54.66	5.75	--	48.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	4/17/2002		54.66	7.27	--	47.39	<50	--	<0.5	<0.5	<0.5	<0.5	45	--	--	--	--	--	--	--	--	--	
A-3	8/12/2002		54.66	9.71	--	44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	12/6/2002		54.66	9.55	--	45.11	<500	--	<5.0	<5.0	<5.0	<5.0	150	--	--	--	--	--	--	--	--	2.4	
A-3	1/30/2003		54.66	6.05	--	48.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	5/28/2003		54.66	8.06	--	46.60	74	--	<0.50	<0.50	<0.50	<0.50	43	<20	<0.50	<0.50	24	<100	--	--	1.5		
A-3	8/6/2003		54.66	9.91	--	44.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	11/14/2003		54.66	9.52	--	45.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	2/2/2004		59.32	5.63	--	53.69	<50	--	<0.50	<0.50	<0.50	<0.50	13	<20	<0.50	<0.50	4.6	<100	<0.50	<0.50	1.2		
A-3	5/4/2004		59.32	8.14	--	51.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	9/2/2004		59.32	10.10	--	49.22	<250	--	<2.5	<2.5	<2.5	<2.5	62	<100	<2.5	<2.5	15	<500	<2.5	<2.5	1.3		
A-3	11/10/2004		59.32	7.89	--	51.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	2/2/2005		59.32	5.00	--	54.32	<50	--	<0.50	<0.50	<0.50	<0.50	6.8	<20	<0.50	<0.50	2.4	<100	<0.50	<0.50	1.9		
A-3	5/9/2005		59.32	5.96	--	53.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	8/11/2005		59.32	9.28	--	50.04	<50	--	<0.50	<0.50	<0.50	<0.50	39	<20	<0.50	<0.50	4.2	<100	<0.50	<0.50	1.8		
A-3	11/18/2005		59.32	8.61	--	50.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	2/15/2006		59.32	4.36	--	54.96	<50	--	<0.50	<0.50	<0.50	<0.50	2.2	<20	<0.50	<0.50	0.58	<300	<0.50	<0.50	3.6		
A-3	5/30/2006		59.32	6.28	--	53.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	8/11/2006		59.32	9.27	--	50.05	<50	--	<0.50	<0.50	<0.50	<0.50	4.1	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	2.10		
A-3	11/1/2006		59.32	9.52	--	49.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	2/7/2007		59.32	7.90	--	51.42	<50	--	<0.50	<0.50	<0.50	<0.50	0.58	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	1.74		
A-3	5/9/2007		59.32	6.55	--	52.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	8/7/2007		59.32	9.57	--	49.75	<50	--	<0.50	<0.50	<0.50	<0.50	3.9	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.95		
A-3	11/14/2007		59.32	8.00	--	51.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	2/28/2008		59.32	3.75	--	55.57	<50	--	<0.50	<0.50	<0.50	<0.50	0.58	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	6.16		
A-3	5/23/2008		59.32	9.10	--	50.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	8/13/2008		59.32	9.80	--	49.52	<50	--	<0.50	<0.50	<0.50	<0.50	0.55	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.69		
A-3	11/19/2008		59.32	8.31	--	51.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	2/10/2009		59.32	7.30	--	52.02	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.90		
A-3	5/7/2009		59.32	6.10	--	53.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	9/3/2009		59.32	9.50	--	49.82	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	1.01		
A-3	3/23/2010		59.32	4.45	--	54.87	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	--		
A-3	8/16/2010		59.32	9.45	--	49.87	<50	--	<0.50	<0.50	<0.50	<1.0	0.72	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	--		
A-3	3/18/2011		59.32	4.00	--	55.32	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-3	8/18/2011		59.32	8.62	--	50.70	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-3	2/29/2012		59.32	7.22	--	52.10	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-3	8/24/2012		59.32	9.31	--	50.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-3	8/31/2012		59.32	9.41	--	49.91	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-3	2/8/2013		59.32	6.33	--	52.99	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-3	8/7/2013		59.32	9.45	--	49.87	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	2.25	
A-3	2/13/2014		59.32	5.89	--	53.43	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	7.72	
A-3	8/28/2014		59.32	9.61	--	49.71	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	2.90	
A-3	2/27/2015		59.32	6.63	--	52.69	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	5.23	

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-4	6/21/2000		54.73	9.49	--	45.24	2,100	--	110	2.1	11	5.9	2,000	--	--	--	--	--	--	--	--	--	
A-4	9/20/2000		54.73	10.33	--	44.40	1,540	--	127	<5.0	9.07	7.42	1,940	--	--	--	--	--	--	--	--	--	
A-4	12/26/2000		54.73	9.34	--	45.39	1,550	--	42.7	<5.0	11	10.9	1,210	--	--	--	--	--	--	--	--	--	
A-4	3/20/2001		54.73	7.56	--	47.17	913	--	40.9	<5.0	15.5	14.6	<25	--	--	--	--	--	--	--	--	--	
A-4	6/12/2001		54.73	9.83	--	44.90	2,000	--	230	<20	21	<20	4,700	--	--	--	--	--	--	--	--	--	
A-4	9/23/2001		54.73	10.54	--	44.19	1,600	--	35	<10	<10	<10	3,000	--	--	--	--	--	--	--	--	--	
A-4	12/31/2001		54.73	5.42	--	49.31	<500	--	<5.0	<5.0	<5.0	<5.0	880	--	--	--	--	--	--	--	--	--	
A-4	3/21/2002		54.73	6.18	--	48.55	<5,000	--	<50	<50	<50	<50	1,400	--	--	--	--	--	--	--	--	--	
A-4	4/17/2002		54.73	7.34	--	47.39	1,300	--	79	31	17	55	2,200	--	--	--	--	--	--	--	--	--	
A-4	8/12/2002		54.73	9.56	--	45.17	2,400	--	120	<5.0	<5.0	<5.0	2,100	--	--	--	--	--	--	--	--	2	
A-4	12/6/2002		54.73	10.02	--	44.71	2,200	--	110	10	42	56	2,000	--	--	--	--	--	--	--	--	--	
A-4	1/30/2003		54.73	7.55	--	47.18	6,000	--	180	<50	85	<50	2,100	<2,000	<50	<50	530	<4,000	--	--	--	1.8	
A-4	5/28/2003		54.73	8.94	--	45.79	6,000	--	120	<50	<50	<50	2,500	<2,000	<50	<50	590	<10,000	--	--	--	1.5	
A-4	8/6/2003		54.73	10.03	--	44.70	5,800	--	100	<25	<25	33	2,500	<1,000	<25	<25	560	<5,000	<25	<25	<25	1.5	
A-4	11/14/2003		54.73	10.37	--	44.36	1,000	--	17	<5.0	<5.0	<5.0	310	320	<5.0	<5.0	76	<1,000	--	31	--	1.6	
A-4	2/2/2004		59.59	6.70	--	52.89	3,600	--	46	<25	<25	<25	1,500	<1,000	<25	<25	350	<5,000	<25	<25	<25	1.0	
A-4	5/4/2004		59.59	9.12	--	50.47	<5,000	--	<50	<50	<50	<50	2,300	<2,000	<50	<50	510	<10,000	<50	<50	<50	6.4	
A-4	9/2/2004		59.59	9.95	--	49.64	3,000	--	<25	<25	<25	<25	1,200	1,200	<25	<25	280	<5,000	<25	<25	<25	9.1	
A-4	11/10/2004		59.59	8.68	--	50.91	1,800	--	16	<10	<10	<10	1,100	910	<10	<10	270	<2,000	<10	<10	<10	2.0	
A-4	2/2/2005		59.59	6.92	--	52.67	3,300	--	120	<10	66	11	1,700	2,100	<10	<10	430	<2,000	<10	<10	<10	1.5	
A-4	5/9/2005		59.59	7.21	--	52.38	<5,000	--	140	<50	62	<50	1,800	2,000	<50	<50	460	<10,000	<50	<50	<50	1.64	
A-4	8/11/2005		59.59	9.71	--	49.88	1,700	--	51	<10	<10	<10	1,200	2,400	<10	<10	310	<2,000	<10	<10	<10	--	
A-4	11/18/2005		59.59	9.45	--	50.14	1,300	--	23	<2.5	7.2	11	310	1,400	<2.5	<2.5	98	<500	<2.5	<2.5	<2.5	1.4	
A-4	2/15/2006		59.59	7.12	--	52.47	2,200	--	46	<2.5	29	7.0	910	2,700	<2.5	<2.5	270	<1,500	<2.5	<2.5	<2.5	0.9	
A-4	5/30/2006		59.59	7.95	--	51.64	3,300	--	95	<10	55	<10	1,200	3,000	<10	<10	340	<6,000	<10	<10	<10	1.76	
A-4	8/11/2006		59.59	9.50	--	50.09	350	--	93	<10	<10	<10	1,200	3,200	<10	<10	350	<6,000	<10	<10	<10	1.4	
A-4	11/1/2006		59.59	9.93	--	49.66	1,300	--	<10	<10	<10	<10	360	1,700	<10	<10	95	<6,000	--	<10	<10	4.56	
A-4	2/7/2007		59.59	8.82	--	50.77	4,900	--	85	<10	40	<10	1,500	3,000	<10	<10	460	<6,000	<10	<10	<10	0.72	
A-4	5/9/2007		59.59	7.56	--	52.03	1,700	--	19	<10	<10	<10	340	2,200	<10	<10	91	<6,000	<10	<10	<10	3.00	
A-4	8/7/2007		59.59	9.80	--	49.79	2,700	--	69	<5.0	<5.0	<5.0	510	1,800	<5.0	<5.0	140	<3,000	<5.0	<5.0	<5.0	1.04	
A-4	11/14/2007		59.59	8.65	--	50.94	500	--	4.9	<0.50	<0.50	<0.50	280	600	<0.50	<0.50	90	<300	<0.50	<0.50	<0.50	1.27	
A-4	2/28/2008		59.59	6.15	--	53.44	850	--	17	<0.50	4.4	1.4	350	1,600	<0.50	<0.50	73	<300	<0.50	<0.50	<0.50	1.76	
A-4	5/23/2008		59.59	9.40	--	50.19	1,900	--	75	<20	<20	<20	1,000	2,500	<20	<20	270	<12,000	<20	<20	<20	1.28	
A-4	8/13/2008		59.59	9.92	--	49.67	3,100	--	47	<10	<10	<10	530	3,200	<10	<10	190	<6,000	<10	<10	<10	0.89	
A-4	11/19/2008		59.59	9.19	--	50.40	1,800	--	70	<10	21	<10	430	3,000	<10	<10	140	<6,000	<10	<10	<10	0.83	
A-4	2/10/2009		59.59	7.68	--	51.91	1,900	--	33	<10	14	<10	400	2,300	<10	<10	120	<6,000	<10	<10	<10	0.87	
A-4	5/7/2009		59.59	7.31	--	52.28	<50	--	<0.50	<0.50	<0.50	<0.50	9.9	11	<0.50	<0.50	2.0	<300	<0.50	<0.50	<0.50	2.40	
A-4	9/3/2009		59.59	10.02	--	49.57	3,800	--	49	<10	<10	<10	360	3,200	<10	<10	120	<6,000	<10	<10	<10	0.79	
A-4	3/23/2010		59.59	6.62	--	52.97	1,000	--	17	<0.50	5.0	1.3	150	1,600	<0.50	<0.50	45	<100	<0.50	<0.50	<0.50	--	
A-4	8/16/2010		59.59	9.85	--	49.74	1,600	--	18	0.50	0.56	<1.0	160	3,400	<0.50	<0.50	47	<100	<0.50	<0.50	<0.50	--	
A-4	3/18/2011		59.59	5.34	--	54.25	490	--	9.9	<0.50	1.9	<1.0	66	1,400	<0.50	<0.50	18	<250	<0.50	<0.50	<0.50	--	
A-4	8/18/2011		59.59	9.08	--	50.51	650	--	1.9	<0.50	<0.50	<1.0	53	1,400	<0.50	<0.50	15	<250	<0.50	<0.50	<0.50	--	
A-4	2/29/2012		59.59	6.70	--	52.89	1,300	--	12	<0.50	4.2	1.1	140	2,200	<0.50	<0.50	38	<250	<0.50	<0.50	<0.50	--	
A-4	8/24/2012		59.59	9.95	--	49.64	720	--	<0.50	<0.50	<0.50	<1.0	5.7	370	<0.50	<0.50	<0.50	<250	<0.50	<0.50	<0.50	--	
A-4	2/8/2013		59.59	7.05	--	52.54	890	--	5.0	<0.50	1.6	<1.0	--	1,600	<0.50	<0.50	19	<250	<0.50	<0.50	<0.50	--	
A-4	8/7/2013		59.59	9.26	--	50.33	1,500	--	2.7	<0.50	<0.50	<1.0	56	1,600	<0.50	<0.50	16	<250	<0.50	<0.50	<0.50	1.53	
A-4	2/13/2014		59.59	6.86	--	52.73	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<250	<0.50	<0.50	<0.50	3.77	
A-4	8/28/2014		59.59	9.65	--	49.94	1,900	--	<5.0	<5.0	<5.0	<1.0	41	1,600	<5.0	<5.0	11	<5,000	<5.0	<5.0	<5.0	3.36	
A-4	2/27/2015		59.59	7.87	--	51.72	470	--	<0.50	<0.50	<0.50	<1.0	2.2	220	<0.50	<0.50	<0.50	<500	<0.50	<0.50	<0.50	3.62	

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-5	6/21/2000		54.17	9.29	--	44.88	980	--	<0.5	<0.5	<0.5	<1.0	2,000	--	--	--	--	--	--	--	--	--	
A-5	9/20/2000		54.17	10.23	--	43.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	12/26/2000		54.17	9.65	--	44.52	525	--	<0.5	<0.5	<0.5	<0.5	1,200	--	--	--	--	--	--	--	--	--	
A-5	3/20/2001		54.17	8.05	--	46.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	6/12/2001		54.17	9.81	--	44.36	830	--	<5.0	<5.0	<5.0	<5.0	3,200	--	--	--	--	--	--	--	--	--	
A-5	9/23/2001		54.17	10.42	--	43.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	12/31/2001		54.17	6.03	--	48.14	320	--	<0.5	<0.5	<0.5	<0.5	60	--	--	--	--	--	--	--	--	--	
A-5	3/21/2002		54.17	6.71	--	47.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	4/17/2002		54.17	8.01	--	46.16	1,600	--	<10	<10	<10	<10	3,200	--	--	--	--	--	--	--	--	--	
A-5	8/12/2002		54.17	9.87	--	44.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	12/6/2002		54.17	9.66	--	44.51	310	--	<0.50	<0.50	<0.50	<0.50	330	--	--	--	--	--	--	--	--	1.9	
A-5	1/30/2003		54.17	7.67	--	46.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	5/28/2003		54.17	8.56	--	45.61	<5,000	--	<50	<50	<50	<50	1,500	<2,000	<50	<50	620	<10,000	--	--	--	1.6	
A-5	8/6/2003		54.17	9.58	--	44.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	11/14/2003		54.17	9.81	--	44.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	2/2/2004		58.78	7.43	--	51.35	390	--	<2.5	9.2	<2.5	2.6	140	170	<2.5	<2.5	54	<500	<2.5	<2.5	<2.5	1.0	
A-5	5/4/2004		58.78	9.98	--	48.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	9/2/2004		58.78	9.65	--	49.13	<250	--	<2.5	<2.5	<2.5	<2.5	66	150	<2.5	<2.5	29	<500	<2.5	<2.5	<2.5	1.1	
A-5	11/10/2004		58.78	8.48	--	50.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	2/2/2005		58.78	7.10	--	51.68	68	--	<0.50	<0.50	<0.50	<0.50	17	840	<0.50	<0.50	7.6	<100	<0.50	<0.50	<0.50	1.0	
A-5	5/9/2005		58.78	7.20	--	51.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	8/11/2005		58.78	9.21	--	49.57	<50	--	<0.50	<0.50	<0.50	<0.50	6.8	530	<0.50	<0.50	7.1	<100	<0.50	<0.50	<0.50	1.3	
A-5	11/18/2005		58.78	9.10	--	49.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	2/15/2006		58.78	7.16	--	51.62	<50	--	<0.50	<0.50	<0.50	<0.50	5.1	460	<0.50	<0.50	4.2	<300	<0.50	<0.50	<0.50	1.2	
A-5	5/30/2006		58.78	7.87	--	50.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	8/11/2006		58.78	8.90	--	49.88	920	--	<0.50	<0.50	<0.50	<0.50	12	1,100	<0.50	<0.50	5.0	<300	<0.50	<0.50	<0.50	1.4	
A-5	11/1/2006		58.78	9.30	--	49.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	2/7/2007		58.78	8.50	--	50.28	60	--	<0.50	<0.50	<0.50	<0.50	1.5	600	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	0.73	
A-5	5/9/2007		58.78	7.60	--	51.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	8/7/2007		58.78	9.30	--	49.48	<50	--	<0.50	<0.50	<0.50	<0.50	0.81	79	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	0.41	
A-5	11/14/2007		58.78	8.48	--	50.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	2/28/2008		58.78	6.21	--	52.57	<50	--	<0.50	<0.50	<0.50	<0.50	0.97	230	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	2.24	
A-5	5/23/2008		58.78	8.97	--	49.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	8/13/2008		58.78	9.42	--	49.36	<50	--	<0.50	<0.50	<0.50	<0.50	0.69	33	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	0.62	
A-5	11/19/2008		58.78	8.91	--	49.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	2/10/2009		58.78	7.80	--	50.98	<50	--	<0.50	<0.50	<0.50	<0.50	1.6	18	<0.50	<0.50	0.59	<300	<0.50	<0.50	<0.50	0.85	
A-5	5/7/2009		58.78	7.37	--	51.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	9/3/2009		58.78	9.33	--	49.45	<50	--	<0.50	<0.50	<0.50	<0.50	20	<10	<0.50	<0.50	9.1	<300	<0.50	<0.50	<0.50	0.91	
A-5	3/23/2010		58.78	6.84	--	51.94	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	33	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	--	
A-5	8/16/2010		58.78	8.85	--	49.93	<50	--	<0.50	<0.50	<0.50	<1.0	7.9	35	<0.50	<0.50	3.1	<100	<0.50	<0.50	<0.50	--	
A-5	3/18/2011		58.78	5.45	--	53.33	<50	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-5	8/18/2011		58.78	8.37	--	50.41	<50	--	--	--	--	--	0.81	--	--	--	--	--	--	--	--	--	
A-5	2/29/2012		58.78	8.12	--	50.66	<50	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-5	8/24/2012		58.78	9.15	--	49.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-5	2/8/2013		58.78	7.65	--	51.13	<2,500	--	--	--	--	--	240	--	--	--	--	--	--	--	--	--	
A-5	8/7/2013		58.78	9.02	--	49.76	<50	--	--	--	--	--	13	--	--	--	--	--	--	--	--	2.16	
A-5	2/13/2014		58.78	6.55	--	52.23	<50	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	1.34	
A-5	8/28/2014		58.78	9.06	--	49.72	<50	--	--	--	--	--	3.7	--	--	--	--	--	--	--	--	0.27	
A-5	2/27/2015		58.78	7.14	--	51.64	<50	--	--	--	--	--	2.0	--	--	--	--	--	--	--	--	4.02	
A-6	6/21/2000		55.17	8.67	--	46.50	<50	--	<0.5	<0.5	<0.5	<1.0	<3.0	--	--	--	--	--	--	--	--	--	
A-6	9/20/2000		55.17	9.34	--	45.83	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-6	12/26/2000		55.17	8.65	--	46.52	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-6	3/20/2001		55.17	6.84	--	48.33	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-6	6/12/2001		55.17	8.93	--	46.24	<50	--	<0.5	<0.5	<0.5	<0.5	7	--	--	--	--	--	--	--	--	--	
A-6	9/23/2001		55.17	9.74	--	45.43	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-6	12/31/2001		55.17	4.81	--	50.36	<50	--	<0.5	<0.5	<0.5	<0.5	3.2	--	--	--	--	--	--	--	--	--	
A-6	3/21/2002		55.17	5.44	--	49.73	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-6	4/17/2002		55.17	6.95	--	48.22	<50	--	<0.5	<0.5	<0.5	<0.5	3.1	--	--	--	--	--	--	--	--	--	
A-6	8/12/2002		55.17	8.90	--	46.27	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	4.3	
A-6	12/6/2002		55.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(INA; Paved over)

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-7	6/21/2000		54.71	8.58	--	46.13	<50	--	<0.5	<0.5	<0.5	<1.0	<3.0	--	--	--	--	--	--	--	--	--	
A-7	9/20/2000		54.71	9.19	--	45.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	12/26/2000		54.71	8.50	--	46.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	3/20/2001		54.71	6.75	--	47.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	6/12/2001		54.71	8.80	--	45.91	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-7	9/23/2001		54.71	9.59	--	45.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	12/31/2001		54.71	4.78	--	49.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	3/21/2002		54.71	5.35	--	49.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	4/17/2002		54.71	6.88	--	47.83	<50	--	<0.5	<0.5	<0.5	<0.5	2.5	--	--	--	--	--	--	--	--	--	
A-7	8/12/2002		54.71	8.77	--	45.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	12/6/2002		54.71	9.07	--	45.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	1/30/2003		54.71	6.65	--	48.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	5/28/2003		54.71	7.63	--	47.08	<50	--	<0.50	<0.50	<0.50	<0.50	3.8	<20	<0.50	<0.50	0.94	<100	--	--	2.3		
A-7	8/6/2003		54.71	8.90	--	45.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	11/14/2003		54.71	9.08	--	45.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	2/2/2004		59.75	5.96	--	53.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	5/4/2004		59.75	8.21	--	51.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	9/2/2004		59.75	9.02	--	50.73	<50	--	<0.50	<0.50	<0.50	<0.50	8.9	<20	<0.50	<0.50	3.0	<100	<0.50	<0.50	3.0		
A-7	11/10/2004		59.75	7.50	--	52.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	2/2/2005		59.75	6.10	--	53.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	5/9/2005		59.75	6.48	--	53.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/11/2005		59.75	8.45	--	51.30	<50	--	<0.50	<0.50	<0.50	<0.50	18	<20	<0.50	<0.50	4.4	<100	<0.50	<0.50	1.6		
A-7	11/18/2005		59.75	8.65	--	51.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	2/15/2006		59.75	6.51	--	53.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	5/30/2006		59.75	7.13	--	52.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/11/2006		59.75	8.46	--	51.29	<50	--	<0.50	<0.50	<0.50	<0.50	3.6	<20	<0.50	<0.50	0.91	<300	<0.50	0.54	1.7		
A-7	11/1/2006		59.75	8.99	--	50.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	2/7/2007		59.75	8.12	--	51.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	5/9/2007		59.75	7.04	--	52.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/7/2007		59.75	9.10	--	50.65	<50	--	<0.50	<0.50	<0.50	<0.50	2.7	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	1.34		
A-7	11/14/2007		59.75	8.00	--	51.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	2/28/2008		59.75	5.81	--	53.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	5/23/2008		59.75	8.74	--	51.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/13/2008		59.75	9.27	--	50.48	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	1.05		
A-7	11/19/2008		59.75	8.67	--	51.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	2/10/2009		59.75	7.47	--	52.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	5/7/2009		59.75	6.88	--	52.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	9/3/2009		59.75	9.25	--	50.50	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.93		
A-7	3/23/2010		59.75	6.33	--	53.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/16/2010		59.75	9.13	--	50.62	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	--		
A-7	3/18/2011		59.75	5.20	--	54.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/18/2011		59.75	8.54	--	51.21	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-7	2/29/2012		59.75	8.00	--	51.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/24/2012		59.75	9.06	--	50.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-7	8/31/2012		59.75	9.04	--	50.71	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-7	2/8/2013		59.75	7.44	--	52.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-7	8/7/2013		59.75	8.96	--	50.79	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	2.07	
A-7	2/13/2014		59.75	6.58	--	53.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-7	8/28/2014		59.75	9.15	--	50.60	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	0.22	
A-7	2/27/2015		59.75	6.81	--	52.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)

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Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes
A-8	6/21/2000		53.77	9.07	--	44.70	810	--	<0.5	<0.5	<0.5	810	1,500	--	--	--	--	--	--	--	--	--
A-8	9/20/2000		53.77	9.72	--	44.05	10,800	--	2,680	46	439	370	4,410	--	--	--	--	--	--	--	--	--
A-8	12/26/2000		53.77	9.20	--	44.57	7,700	--	1,440	<50	202	106	2,230	--	--	--	--	--	--	--	--	--
A-8	3/20/2001		53.77	7.51	--	46.26	<5,000	--	1,280	<50	53.9	<50	2,880	--	--	--	--	--	--	--	--	--
A-8	6/12/2001		53.77	9.53	--	44.24	5,600	--	1,700	<50	61	54	2,900	--	--	--	--	--	--	--	--	--
A-8	9/23/2001		53.77	10.08	--	43.69	10,000	--	3,500	<50	110	64	6,500	--	--	--	--	--	--	--	--	--
A-8	12/31/2001		53.77	4.34	--	49.43	4,300	--	610	<10	60	24	520	--	--	--	--	--	--	--	--	--
A-8	3/21/2002		53.77	6.67	--	47.10	6,600	--	1,400	<50	130	<50	2,700	--	--	--	--	--	--	--	--	--
A-8	4/17/2002		53.77	7.72	--	46.05	3,800	--	540	<10	<10	12	3,100	--	--	--	--	--	--	--	--	--
A-8	8/12/2002		53.77	9.64	--	44.13	9,400	--	1,800	<20	35	28	4,200	--	--	--	--	--	--	--	--	1
A-8	12/6/2002		53.77	9.62	--	44.15	5,300	--	1,100	11	11	<10	2,200	--	--	--	--	--	--	--	--	1.4
A-8	1/30/2003		53.77	7.49	--	46.28	<10,000	--	1,100	<100	<100	<100	2,200	<4,000	<100	<100	900	<8,000	--	--	--	1.5
A-8	5/28/2003		53.77	9.17	--	44.60	7,700	--	1,700	<50	<50	<50	2,100	<2,000	<50	<50	1,100	<10,000	--	--	--	1
A-8	8/6/2003		53.77	9.67	--	44.10	13,000	--	2,400	<50	<50	<50	3,000	<2,000	<50	<50	1,200	<10,000	<50	<50	--	0.9
A-8	11/14/2003		53.77	9.80	--	43.97	3,100	--	570	<5.0	<5.0	<5.0	850	<200	<5.0	<5.0	320	<1,000	--	--	--	2.3
A-8	2/2/2004		58.70	7.10	--	51.60	3,900	--	300	<25	<25	<25	1,100	<1,000	<25	<25	380	<5,000	<25	<25	<25	1.1
A-8	5/4/2004		58.70	9.44	--	49.26	<5,000	--	490	<50	<50	<50	1,600	<2,000	<50	<50	440	<10,000	<50	<50	<50	1.0
A-8	9/2/2004		58.70	9.67	--	49.03	<2,500	--	30	<25	<25	<25	680	<1,000	<25	<25	170	<5,000	<25	<25	<25	1.0
A-8	11/10/2004		58.70	8.15	--	50.55	580	--	61	<2.5	<2.5	<2.5	290	<100	<2.5	<2.5	66	<500	<2.5	<2.5	<2.5	1.5
A-8	2/2/2005		58.70	6.53	--	52.17	5,000	--	890	<25	<25	<25	1,900	<1,000	<25	<25	510	<5,000	<25	<25	<25	1.0
A-8	5/9/2005		58.70	6.31	--	52.39	69	--	0.90	<0.50	<0.50	<0.50	66	<20	<0.50	<0.50	2.9	<100	<0.50	<0.50	<0.50	4.1
A-8	8/11/2005		58.70	9.15	--	49.55	1,400	--	1,300	<12	<12	<12	1,100	<500	<12	<12	310	<2,500	<12	<12	<12	0.7
A-8	11/18/2005		58.70	8.89	--	49.81	1,200	--	420	<5.0	<5.0	<5.0	340	<200	<5.0	<5.0	120	<1,000	<5.0	<5.0	<5.0	0.7
A-8	2/15/2006		58.70	6.34	--	52.36	3,200	--	970	<10	<10	<10	1,100	880	<10	<10	330	<6,000	<10	<10	<10	0.9
A-8	5/30/2006		58.70	7.53	--	51.17	510	--	210	<2.5	<2.5	<2.5	140	<100	<2.5	<2.5	43	<1,500	<2.5	<2.5	<2.5	2.6
A-8	8/11/2006		58.70	8.90	--	49.80	1,300	--	500	<5.0	<5.0	<5.0	290	<200	<5.0	<5.0	92	<3,000	<5.0	<5.0	<5.0	0.7
A-8	11/1/2006		58.70	9.15	--	49.55	4,800	--	790	6.6	<5.0	<5.0	910	1,200	<5.0	<5.0	250	<3,000	<5.0	<5.0	<5.0	1.72
A-8	2/7/2007		58.70	8.48	--	50.22	7,600	--	2,300	<25	<25	<25	1,200	<1,000	<25	<25	330	<15,000	<25	<25	<25	1.25
A-8	5/9/2007		58.70	7.25	--	51.45	750	--	180	<2.5	<2.5	<2.5	55	<100	<2.5	<2.5	16	<1,500	<2.5	<2.5	<2.5	1.75
A-8	8/7/2007		58.70	9.17	--	49.53	2,100	--	700	4.0	<2.5	<2.5	430	140	<2.5	<2.5	160	<1,500	<2.5	<2.5	<2.5	0.77
A-8	11/14/2007		58.70	7.77	--	50.93	990	--	300	2.5	0.68	0.96	100	28	<0.50	<0.50	44	<300	<0.50	<0.50	<0.50	1.01
A-8	2/28/2008		58.70	5.14	--	53.56	2,100	--	670	<5.0	<5.0	<5.0	220	230	<5.0	<5.0	72	<3,000	<5.0	<5.0	<5.0	1.67
A-8	8/13/2008		58.70	9.48	--	49.22	3,100	--	970	<25	<25	<25	250	<500	<25	<25	86	<15,000	<25	<25	<25	0.84
A-8	11/19/2008		58.70	8.87	--	49.83	3,800	--	1,000	<20	<20	<20	230	<400	<20	<20	100	<12,000	<20	<20	<20	0.89
A-8	2/10/2009		58.70	7.11	--	51.59	3,600	--	1,300	<25	<25	<25	320	<500	<25	<25	120	<15,000	<25	<25	<25	0.89
A-8	5/7/2009		58.70	6.47	--	52.23	270	--	65	<1.0	<1.0	<1.0	12	20	<1.0	<1.0	3.3	<600	<1.0	<1.0	<1.0	0.97
A-8	9/3/2009		58.70	9.47	--	49.23	3,200	--	1,400	<25	<25	<25	100	<500	<25	<25	52	<15,000	<25	<25	<25	0.87
A-8	3/23/2010		58.70	6.12	--	52.58	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	--
A-8	8/16/2010		58.70	9.27	--	49.43	4,300	--	1,600	12	5.3	6.1	110	<4.0	<0.50	<0.50	41	<100	<0.50	<0.50	<0.50	--
A-8	3/18/2011		58.70	5.01	--	53.69	2,000	--	620	4.7	0.96	1.4	87	220	<0.50	<0.50	43	<250	<0.50	<0.50	<0.50	--
A-8	8/18/2011		58.70	8.76	--	49.94	3,300	--	1,500	13	5.4	<10	120	<40	<5.0	<5.0	57	<2,500	<5.0	<5.0	<5.0	--
A-8	2/29/2012		58.70	8.19	--	50.51	3,400	--	1,700	10	3.4	3.9	160	460	<0.50	<0.50	71	<250	<0.50	<0.50	<0.50	--
A-8	8/24/2012		58.70	9.44	--	49.26	3,700	--	1,800	<25	<25	<50	64	220	<25	<25	33	<13,000	<25	<25	<25	--
A-8	2/8/2013		58.70	7.35	--	51.35	<50	--	6.0	<0.50	<0.50	<1.0	--	<4.0	<0.50	<0.50	0.92	<250	<0.50	<0.50	<0.50	--
A-8	8/7/2013		58.70	9.20	--	49.50	1,400	--	940	5.5	1.6	1.5	27	67	<0.50	<0.50	14	<250	<0.50	<0.50	<0.50	2.20
A-8	2/13/2014		58.70	6.51	--	52.19	190	--	4.4	<0.50	<0.50	<1.0	0.85	190	<0.50	<0.50	<0.50	<250	<0.50	<0.50	<0.50	1.33
A-8	8/28/2014		58.70	9.35	--	49.35	1,000	--	130	<5.0	<5.0	<10	15	210	<5.0	<5.0	5.3	<5,000	<5.0	<5.0	<5.0	0.43
A-8	2/27/2015		58.70	6.99	--	51.71	370	--	70	<0.50	<0.50	<1.0	7.5	61	<0.50	<0.50	4.8	<500	<0.50	<0.50	<0.50	3.11

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-9	6/21/2000		53.04	8.56	--	44.48	<50	--	<0.5	<0.5	<0.5	<1.0	5	--	--	--	--	--	--	--	--	--	
A-9	9/20/2000		53.04	9.05	--	43.99	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-9	12/26/2000		53.04	8.49	--	44.55	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-9	3/20/2001		53.04	6.95	--	46.09	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-9	6/12/2001		53.04	8.67	--	44.37	<50	--	<0.5	<0.5	<0.5	<0.5	4.8	--	--	--	--	--	--	--	--	--	
A-9	9/23/2001		53.04	9.21	--	43.83	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-9	12/31/2001		53.04	4.57	--	48.47	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-9	3/21/2002		53.04	5.60	--	47.44	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-9	4/17/2002		53.04	6.89	--	46.15	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-9	8/12/2002		53.04	8.71	--	44.33	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	4	
A-9	12/6/2002		53.04	8.77	--	44.27	<50	--	<0.50	<0.50	<0.50	<0.50	<2.0	--	--	--	--	--	--	--	--	1.1	
A-9	1/30/2003		53.04	6.88	--	46.16	<50	--	<0.50	<0.50	<0.50	<0.50	1.1	<20	<0.50	<0.50	<0.50	<40	--	--	0.9		
A-9	5/28/2003		53.04	9.75	--	43.29	<50	--	<0.50	<0.50	<0.50	<0.50	0.74	<20	<0.50	<0.50	<0.50	<100	--	--	1.9		
A-9	8/6/2003		53.04	9.00	--	44.04	<50	--	<0.50	<0.50	<0.50	<0.50	1.8	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	2.2		
A-9	11/14/2003		53.04	8.82	--	44.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	2/2/2004		57.73	7.10	--	50.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	5/4/2004		57.73	8.12	--	49.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	9/2/2004		57.73	8.78	--	48.95	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	6.6		
A-9	11/10/2004		57.73	7.88	--	49.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	2/2/2005		57.73	6.40	--	51.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	5/9/2005		57.73	6.82	--	50.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	8/11/2005		57.73	8.37	--	49.36	<50	--	<0.50	<0.50	<0.50	<0.50	1.5	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	1.8		
A-9	11/18/2005		57.73	8.24	--	49.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	2/15/2006		57.73	6.38	--	51.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	5/30/2006		57.73	7.17	--	50.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	8/11/2006		57.73	8.20	--	49.53	<50	--	<0.50	<0.50	<0.50	<0.50	1.6	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	1.02		
A-9	11/1/2006		57.73	8.90	--	48.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	2/7/2007		57.73	7.83	--	49.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	5/9/2007		57.73	6.92	--	50.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	8/7/2007		57.73	8.58	--	49.15	<50	--	<0.50	<0.50	<0.50	<0.50	0.64	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	1.81		
A-9	11/14/2007		57.73	7.77	--	49.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	2/28/2008		57.73	5.61	--	52.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	8/13/2008		57.73	8.65	--	49.08	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.55		
A-9	11/19/2008		57.73	8.49	--	49.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	2/10/2009		57.73	7.07	--	50.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	5/7/2009		57.73	6.65	--	51.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	9/3/2009		57.73	8.56	--	49.17	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.89		
A-9	3/23/2010		57.73	5.98	--	51.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	8/16/2010		57.73	8.32	--	49.41	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	--		
A-9	3/18/2011		57.73	4.40	--	53.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	8/18/2011		57.73	7.94	--	49.79	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--	--	--	
A-9	2/29/2012		57.73	7.48	--	50.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-9	8/24/2012		57.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Dry)
A-9	2/8/2013		57.73	6.63	--	51.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-9	8/7/2013		57.73	8.08	--	49.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NS - Obstruction in well)
A-9	2/13/2014		57.73	5.62	--	52.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-9	8/28/2014		57.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(No measured water; NS)
A-9	2/27/2015		57.73	6.08	--	51.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NS - Obstruction in well)

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-10	6/21/2000		54.26	10.47	--	43.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	9/20/2000		54.26	10.76	--	43.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	11/14/2003		54.26	10.37	--	43.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	2/2/2004		59.39	7.97	--	51.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	5/4/2004		59.39	8.69	--	50.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	9/2/2004		59.39	10.55	--	48.84	<500	--	<5.0	<5.0	<5.0	<5.0	270	<200	<5.0	<5.0	44	<1,000	<5.0	<5.0	0.8		
A-10	11/10/2004		59.39	9.16	--	50.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	2/2/2005		59.39	7.90	--	51.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	5/9/2005		59.39	8.21	--	51.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	8/11/2005		59.39	10.02	--	49.37	69	--	<0.50	<0.50	<0.50	<0.50	97	<20	<0.50	<0.50	14	<100	<0.50	<0.50	0.9		
A-10	11/18/2005		59.39	9.86	--	49.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	2/15/2006		59.39	7.53	--	51.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	5/30/2006		59.39	8.82	--	50.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	8/11/2006		59.39	9.88	--	49.51	<50	--	<0.50	<0.50	<0.50	<0.50	46	<20	<0.50	<0.50	7.3	<300	<0.50	<0.50	1.3		
A-10	11/1/2006		59.39	10.28	--	49.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	2/7/2007		59.39	9.50	--	49.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	5/9/2007		59.39	8.67	--	50.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	8/7/2007		59.39	10.25	--	49.14	<50	--	<0.50	<0.50	<0.50	<0.50	8.9	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.59		
A-10	11/14/2007		59.39	9.48	--	49.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	2/28/2008		59.39	7.23	--	52.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	5/23/2008		59.39	9.94	--	49.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	8/13/2008		59.39	10.30	--	49.09	<50	--	<0.50	<0.50	<0.50	<0.50	28	<10	<0.50	<0.50	6.9	<300	<0.50	<0.50	0.74		
A-10	11/19/2008		59.39	9.90	--	49.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	2/10/2009		59.39	8.74	--	50.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	5/7/2009		59.39	8.23	--	51.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	3/23/2010		59.39	7.65	--	51.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	8/16/2010		59.39	10.05	--	49.34	<50	--	<0.50	<0.50	<0.50	<1.0	3.9	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	--		
A-10	3/18/2011		59.39	6.52	--	52.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	8/18/2011		59.39	9.58	--	49.81	--	--	--	--	--	--	2.1	--	--	--	--	--	--	--	--	--	
A-10	2/29/2012		59.39	9.02	--	50.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-10	8/24/2012		59.39	10.03	--	49.36	--	--	--	--	--	--	1.8	--	--	--	--	--	--	--	--	--	
A-10	2/8/2013		59.39	8.30	--	51.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-10	8/7/2013		59.39	9.95	--	49.44	--	--	--	--	--	--	20	--	--	--	--	--	--	--	--	1.63	
A-10	2/13/2014		59.39	7.40	--	51.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-10	8/28/2014		59.39	9.93	--	49.46	--	--	--	--	--	--	6.1	--	--	--	--	--	--	--	--	0.76	
A-10	2/27/2015		59.39	8.09	--	51.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-11	6/21/2000		53.74	9.54	--	44.20	<50	--	<0.5	<0.5	<0.5	<1.0	4	--	--	--	--	--	--	--	--	--	
A-11	9/20/2000		53.74	10.62	--	43.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	12/26/2000		53.74	10.03	--	43.71	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-11	3/20/2001		53.74	8.49	--	45.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	6/12/2001		53.74	10.21	--	43.53	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-11	9/23/2001		53.74	10.77	--	42.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	12/31/2001		53.74	6.06	--	47.68	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-11	3/21/2002		53.74	7.14	--	46.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	4/17/2002		53.74	8.41	--	45.33	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-11	8/12/2002		53.74	10.25	--	43.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	12/6/2002		53.74	10.43	--	43.31	<50	--	<0.50	<0.50	<0.50	<0.50	<2.0	--	--	--	--	--	--	--	--	2.4	
A-11	1/30/2003		53.74	8.42	--	45.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	5/28/2003		53.74	9.30	--	44.44	<50	--	<0.50	<0.50	<0.50	<0.50	0.53	<20	<0.50	<0.50	<0.50	<100	--	--	1.8		
A-11	8/6/2003		53.74	10.28	--	43.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	11/14/2003		53.74	10.40	--	43.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	2/2/2004		59.16	7.95	--	51.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	5/4/2004		59.16	8.72	--	50.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	9/2/2004		59.16	10.44	--	48.72	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	2.6		
A-11	11/10/2004		59.16	9.20	--	49.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	2/2/2005		59.16	7.95	--	51.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	5/9/2005		59.16	8.07	--	51.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	8/11/2005		59.16	9.87	--	49.29	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	3.8		
A-11	11/18/2005		59.16	8.88	--	50.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	2/15/2006		59.16	7.90	--	51.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	5/30/2006		59.16	8.78	--	50.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	8/11/2006		59.16	10.33	--	48.83	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	3.8		
A-11	11/1/2006		59.16	10.10	--	49.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	2/7/2007		59.16	9.35	--	49.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	5/9/2007		59.16	8.48	--	50.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	8/7/2007		59.16	10.10	--	49.06	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	2.67		
A-11	11/14/2007		59.16	9.31	--	49.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	2/28/2008		59.16	7.12	--	52.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	5/23/2008		59.16	9.77	--	49.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	8/13/2008		59.16	10.08	--	49.08	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.89		
A-11	11/19/2008		59.16	9.75	--	49.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	2/10/2009		59.16	8.67	--	50.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	5/7/2009		59.16	8.20	--	50.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	9/3/2009		59.16	10.15	--	49.01	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	0.98		
A-11	3/23/2010		59.16	7.70	--	51.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-11	8/16/2010		59.16	9.90	--	49.26	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<100	<0.50	<0.50	--		
A-11	8/24/2012		59.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(INA)
A-11	2/8/2013		59.16	8.47	--	50.69	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<250	<0.50	<0.50	--		
A-11	8/7/2013		59.16	9.66	--	49.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-11	2/13/2014		59.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(INA)
A-11	8/28/2014		59.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(No measured water; NS)
A-11	2/27/2015		59.16	7.92	--	51.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)

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CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-12	6/21/2000		52.05	9.28	--	42.77	<50	--	<0.5	<0.5	<0.5	<1.0	18	--	--	--	--	--	--	--	--	--	
A-12	9/20/2000		52.05	9.55	--	42.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	12/26/2000		52.05	9.05	--	43.00	<50	--	<0.5	<0.5	<0.5	<0.5	17.3	--	--	--	--	--	--	--	--	--	
A-12	3/20/2001		52.05	7.92	--	44.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	6/12/2001		52.05	9.26	--	42.79	<50	--	<0.5	<0.5	<0.5	<0.5	25	--	--	--	--	--	--	--	--	--	
A-12	9/23/2001		52.05	9.68	--	42.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	12/31/2001		52.05	5.74	--	46.31	<50	--	<0.5	<0.5	<0.5	<0.5	9.5	--	--	--	--	--	--	--	--	--	
A-12	3/21/2002		52.05	6.64	--	45.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	4/17/2002		52.05	7.68	--	44.37	<50	--	<0.5	<0.5	<0.5	<0.5	29	--	--	--	--	--	--	--	--	--	
A-12	8/12/2002		52.05	9.30	--	42.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	12/6/2002		52.05	9.38	--	42.67	<50	--	<0.50	<0.50	<0.50	<0.50	13	--	--	--	--	--	--	--	--	2.3	
A-12	1/30/2003		52.05	7.87	--	44.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	5/28/2003		52.05	8.51	--	43.54	50	--	<0.50	<0.50	<0.50	<0.50	10	<20	<0.50	<0.50	2.5	<100	--	--	1.4		
A-12	8/6/2003		52.05	9.28	--	42.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	11/14/2003		52.05	9.37	--	42.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	2/2/2004		57.06	7.90	--	49.16	<50	--	<0.50	<0.50	<0.50	<0.50	0.91	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	1.0	
A-12	5/4/2004		57.06	8.74	--	48.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	9/2/2004		57.06	9.41	--	47.65	<50	--	<0.50	<0.50	<0.50	<0.50	6.2	<20	<0.50	<0.50	1.7	<100	<0.50	<0.50	<0.50	1.1	
A-12	11/10/2004		57.06	8.32	--	48.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	2/2/2005		57.06	7.45	--	49.61	<50	--	<0.50	<0.50	<0.50	<0.50	8.3	<20	<0.50	<0.50	2.2	<100	<0.50	<0.50	<0.50	1.4	
A-12	5/9/2005		57.06	7.57	--	49.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	8/11/2005		57.06	9.05	--	48.01	<50	--	<0.50	<0.50	<0.50	<0.50	5.4	<20	<0.50	<0.50	1.1	<100	<0.50	<0.50	<0.50	0.9	
A-12	11/18/2005		57.06	8.90	--	48.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	2/15/2006		57.06	7.47	--	49.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	5/30/2006		57.06	8.21	--	48.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	8/11/2006		57.06	8.85	--	48.21	<50	--	<0.50	<0.50	<0.50	<0.50	7.4	<20	<0.50	<0.50	2.5	<300	<0.50	<0.50	<0.50	1.8	
A-12	11/1/2006		57.06	9.17	--	47.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	2/7/2007		57.06	8.58	--	48.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	5/9/2007		57.06	7.93	--	49.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	8/7/2007		57.06	9.20	--	47.86	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	1.49	
A-12	11/14/2007		57.06	8.52	--	48.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	2/28/2008		57.06	7.04	--	50.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	5/23/2008		57.06	9.00	--	48.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	8/13/2008		57.06	9.38	--	47.68	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<300	<0.50	<0.50	<0.50	1.03	
A-12	11/19/2008		57.06	9.01	--	48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	2/10/2009		57.06	8.10	--	48.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	5/7/2009		57.06	7.80	--	49.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	9/3/2009		57.06	9.40	--	47.66	<50	--	<0.50	<0.50	<0.50	<0.50	3.6	<10	<0.50	<0.50	1.0	<300	<0.50	<0.50	<0.50	0.98	
A-12	3/23/2010		57.06	7.68	--	49.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	8/16/2010		57.06	9.30	--	47.76	<50	--	<0.50	<0.50	<0.50	<1.0	3.6	<4.0	<0.50	<0.50	0.85	<100	<0.50	<0.50	<0.50	--	
A-12	8/24/2012		57.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-12	2/8/2013		57.06	8.38	--	48.68	<50	--	<0.50	<0.50	<0.50	<1.0	3.3	<4.0	<0.50	<0.50	1.2	<250	<0.50	<0.50	<0.50	--	
A-12	8/7/2013		57.06	9.37	--	47.69	--	--	--	--	--	--	2.0	--	--	--	--	--	--	--	--	1.85	
A-12	2/13/2014		57.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
A-12	8/28/2014		57.06	9.30	--	47.76	<50	--	<0.50	<0.50	<0.50	<1.0	1.9	<20	<0.50	<0.50	<0.50	<500	<0.50	<0.50	<0.50	0.78	
A-12	2/27/2015		57.06	8.09	--	48.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)

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731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
A-13	3/21/2002		55.11	6.70	--	48.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	4/17/2002		55.11	7.95	--	47.16	<50	--	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	--	--	--	--	--	
A-13	8/12/2002		55.11	10.11	--	45.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	12/6/2002		55.11	10.26	--	44.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	1/30/2003		55.11	7.81	--	47.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	5/28/2003		55.11	9.06	--	46.05	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	--	--	--	1.9	
A-13	8/6/2003		55.11	10.22	--	44.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	11/14/2003		55.11	10.27	--	44.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	2/2/2004		60.26	7.92	--	52.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	5/4/2004		60.26	10.06	--	50.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	9/2/2004		60.26	10.34	--	49.92	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	<0.50	2.0	
A-13	11/10/2004		60.26	8.95	--	51.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	2/2/2005		60.26	7.28	--	52.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	5/9/2005		60.26	7.85	--	52.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	8/11/2005		60.26	9.70	--	50.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	11/18/2005		60.26	9.27	--	50.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	2/15/2006		60.26	7.24	--	53.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	5/30/2006		60.26	8.38	--	51.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	8/11/2006		60.26	9.55	--	50.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	11/1/2006		60.26	9.98	--	50.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	2/7/2007		60.26	9.07	--	51.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	5/9/2007		60.26	8.15	--	52.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	8/7/2007		60.26	10.05	--	50.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	11/14/2007		60.26	9.20	--	51.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	2/28/2008		60.26	6.82	--	53.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	5/23/2008		60.26	9.67	--	50.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	8/13/2008		60.26	10.17	--	50.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	11/19/2008		60.26	9.63	--	50.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	2/10/2009		60.26	8.48	--	51.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	5/7/2009		60.26	7.97	--	52.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	9/3/2009		60.26	10.14	--	50.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	3/23/2010		60.26	7.29	--	52.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	8/16/2010		60.26	9.92	--	50.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	3/18/2011		60.26	6.33	--	53.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
A-13	8/24/2012		60.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(INA; Paved over)

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
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Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
AR-1	12/26/2000		54.72	9.95	--	44.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	3/20/2001		54.72	8.34	--	46.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	6/12/2001		54.72	10.17	--	44.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	9/23/2001		54.72	10.72	--	44.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	12/31/2001		54.72	5.91	--	48.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	3/21/2002		54.72	7.00	--	47.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	4/17/2002		54.72	8.33	--	46.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/12/2002		54.72	10.18	--	44.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	12/6/2002		54.72	10.21	--	44.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	1/30/2003		54.72	8.22	--	46.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	5/28/2003		54.72	9.62	--	45.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/6/2003		54.72	10.47	--	44.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	11/14/2003		54.72	10.40	--	44.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/2/2004		59.52	7.96	--	51.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	5/4/2004		59.52	10.17	--	49.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	9/2/2004		59.52	10.28	--	49.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	11/10/2004		59.52	9.15	--	50.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/2/2005		59.52	7.80	--	51.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	5/9/2005		59.52	7.03	--	52.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/11/2005		59.52	9.82	--	49.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	11/18/2005		59.52	9.83	--	49.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/15/2006		59.52	7.78	--	51.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	5/30/2006		59.52	8.65	--	50.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/11/2006		59.52	9.69	--	49.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	11/1/2006		59.52	10.07	--	49.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/7/2007		59.52	9.33	--	50.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	5/9/2007		59.52	8.45	--	51.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/7/2007		59.52	10.12	--	49.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	11/14/2007		59.52	9.31	--	50.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/28/2008		59.52	7.05	--	52.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/13/2008		59.52	10.20	--	49.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	11/19/2008		59.52	9.73	--	49.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/10/2009		59.52	8.61	--	50.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	5/7/2009		59.52	8.17	--	51.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	9/3/2009		59.52	10.19	--	49.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/24/2012		59.52	9.65	--	49.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/8/2013		59.52	8.44	--	51.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	8/7/2013		59.52	10.08	--	49.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-1	2/13/2014		59.52	7.39	--	52.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
AR-1	8/28/2014		59.52	9.88	--	49.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
AR-1	2/27/2015		59.52	6.95	--	52.57	660	--	2.0	<0.50	<0.50	1.1	25	910	<0.50	<0.50	7.3	<500	<0.50	<0.50	3.76		

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Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
AR-2	3/20/2001		54.77	3.13	--	51.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	6/12/2001		54.77	4.51	--	50.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	9/23/2001		54.77	6.05	--	48.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	12/31/2001		54.77	2.79	--	51.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	3/21/2002		54.77	7.75	--	47.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	4/17/2002		54.77	2.24	--	52.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	8/12/2002		54.77	4.93	--	49.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	12/6/2002		54.77	6.09	--	48.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	1/30/2003		54.77	3.89	--	50.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	5/28/2003		54.77	3.33	--	51.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	8/6/2003		54.77	5.05	--	49.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	11/14/2003		54.77	6.01	--	48.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	2/2/2004		59.18	3.88	--	55.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	5/4/2004		59.18	6.01	--	53.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	9/2/2004		59.18	5.65	--	53.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	11/10/2004		59.18	5.48	--	53.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	2/2/2005		59.18	2.62	--	56.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	5/9/2005		59.18	2.84	--	56.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	8/11/2005		59.18	4.33	--	54.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	11/18/2005		59.18	5.34	--	53.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	2/15/2006		59.18	2.49	--	56.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	5/30/2006		59.18	3.02	--	56.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	8/11/2006		59.18	4.32	--	54.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	11/1/2006		59.18	5.25	--	53.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	2/7/2007		59.18	4.64	--	54.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	5/9/2007		59.18	3.15	--	56.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	8/7/2007		59.18	4.55	--	54.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	11/14/2007		59.18	5.03	--	54.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	2/28/2008		59.18	1.82	--	57.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	8/13/2008		59.18	5.05	--	54.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	11/19/2008		59.18	5.49	--	53.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	2/10/2009		59.18	5.10	--	54.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	5/7/2009		59.18	2.90	--	56.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	9/3/2009		59.18	5.99	--	53.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	8/24/2012		59.18	4.55	--	54.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-2	2/8/2013		59.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(INA; Paved over)

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Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes	
AR-3	12/26/2000		54.19	9.70	--	44.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	9/23/2001		54.19	10.43	--	43.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	12/31/2001		54.19	5.18	--	49.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	3/21/2002		54.19	6.78	--	47.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	4/17/2002		54.19	8.06	--	46.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/12/2002		54.19	9.94	--	44.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	12/6/2002		54.19	9.99	--	44.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	1/30/2003		54.19	7.96	--	46.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	5/28/2003		54.19	8.94	--	45.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/6/2003		54.19	9.94	--	44.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	11/14/2003		54.19	10.03	--	44.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/2/2004		59.10	6.90	--	52.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	5/4/2004		59.10	9.12	--	49.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	9/2/2004		59.10	10.15	--	48.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	11/10/2004		59.10	8.79	--	50.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/2/2005		59.10	7.30	--	51.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	5/9/2005		59.10	7.71	--	51.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/11/2005		59.10	9.54	--	49.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	11/18/2005		59.10	9.43	--	49.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/15/2006		59.10	7.50	--	51.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	5/30/2006		59.10	8.82	--	50.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/11/2006		59.10	9.38	--	49.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	11/1/2006		59.10	9.75	--	49.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/7/2007		59.10	9.00	--	50.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	5/9/2007		59.10	8.12	--	50.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/7/2007		59.10	9.75	--	49.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	11/14/2007		59.10	8.91	--	50.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/28/2008		59.10	6.73	--	52.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/13/2008		59.10	9.85	--	49.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	11/19/2008		59.10	9.35	--	49.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/10/2009		59.10	8.29	--	50.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	5/7/2009		59.10	7.83	--	51.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	9/3/2009		59.10	9.80	--	49.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/24/2012		59.10	9.10	--	50.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/8/2013		59.10	7.62	--	51.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	8/7/2013		59.10	9.47	--	49.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AR-3	2/13/2014		59.10	7.00	--	52.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
AR-3	8/28/2014		59.10	9.45	--	49.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(NSP)
AR-3	2/27/2015		59.10	7.60	--	51.50	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<0.50	<0.50	<0.50	<500	<0.50	<0.50	3.80		

Table 2
Historical and Current Groundwater Monitoring and Analytical Data
CA-04931
731 West Macarthur Blvd, Oakland, CA 94609

Well ID	Date	Type	TOC (ft msl)	DTW (ft btoc)	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)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DO (mg/L)	Notes
---------	------	------	-----------------	------------------	--	---------------------	---------------	---------------	-------------	-------------	-------------	-------------	----------------	---------------	----------------	----------------	----------------	-------------------	---------------	-------------------	--------------	-------

Notes:

-- = Not analyzed/applicable/measured/available
 < = Not detected at or above laboratory reporting limit
 ft = Feet
 ft btoc = Feet below top of casing
 ft msl = Feet above mean sea level
 µg/L = Micrograms per liter
 mg/L = Milligrams per liter
 TOC = Top of casing measured in ft msl
 DTW = Depth to water in ft btoc
 LNAPL = Light non-aqueous phase liquid
 GW Elev = Groundwater elevation measured in ft msl
 GRO = Gasoline range organics
 TPH-g = Total petroleum hydrocarbons as gasoline
 DRO = Diesel 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
 EDB = 1,2-Dibromoethane
 1,2-DCA = 1,2-Dichloroethane
 DO = Dissolved oxygen
 INA = Well inaccessible during monitoring event.
 NS = Well not sampled
 NSP = Well not sampled in accordance with groundwater sampling schedule
 Dry = Well dry during monitoring event

Top and bottom of screen measurements for wells A-2 through A-5 were estimated from the EMCON sampling sheet.

Beginning in the first quarter 2003 (1/30/2003), groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX, and fuel oxygenates. Prior to 1/30/03, TPH-g was analyzed using EPA Method 8015B modified and MTBE by 8021B unless otherwise noted.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g 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.

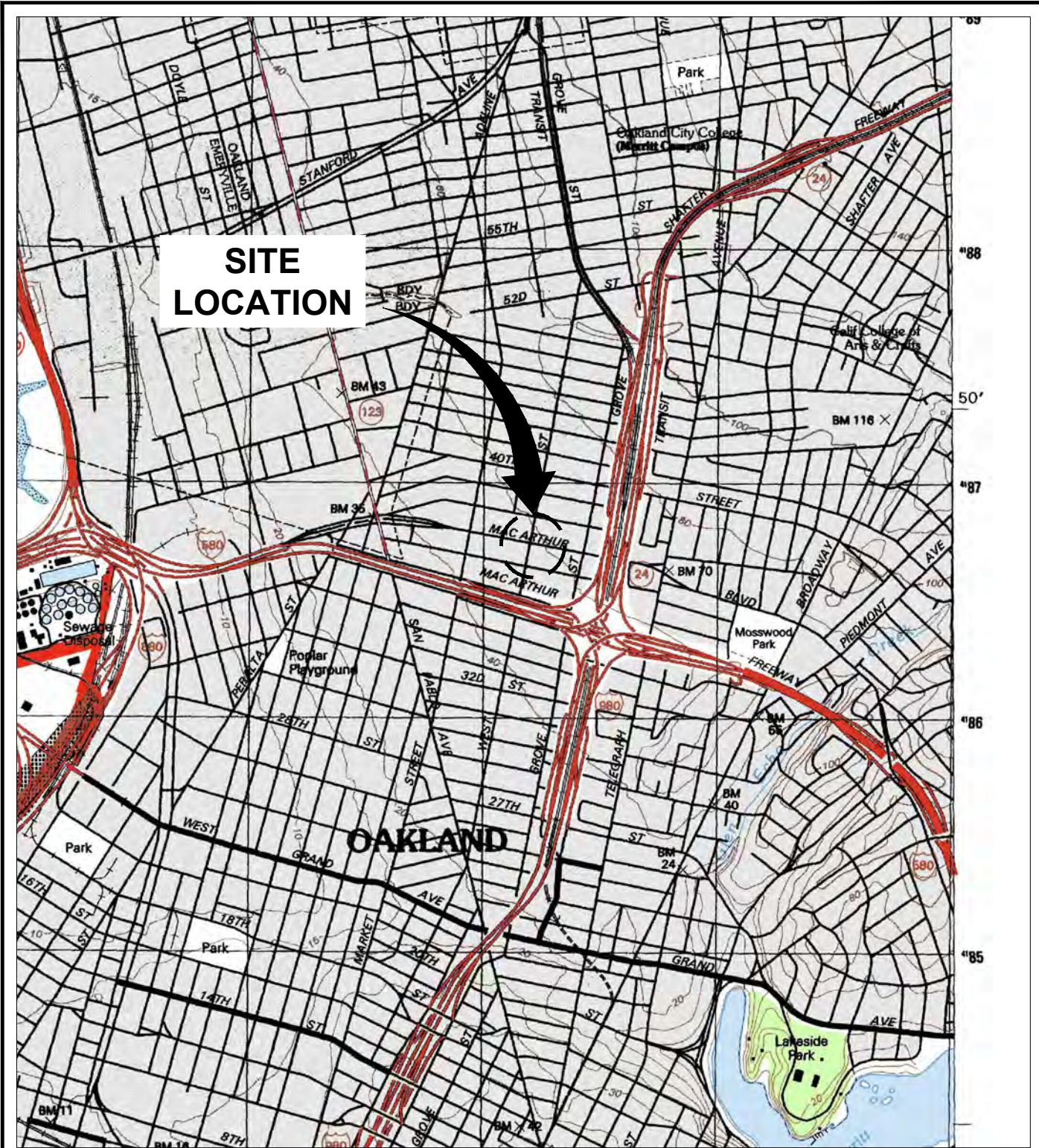
Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Values for DO were obtained through field measurements.

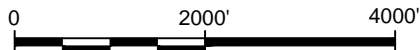
GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present.

Note: The data within this table collected prior to August 2009 was provided to ARCADIS U.S., Inc. (ARCADIS) by Atlantic Richfield Company and their previous consultants. ARCADIS has not verified the accuracy of this information.

Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 1993.



Approximate Scale: 1 in. = 2000 ft.



CALIFORNIA



FORMER ARCO STATION #4931
 731 WEST MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

SITE LOCATION MAP



FIGURE

1

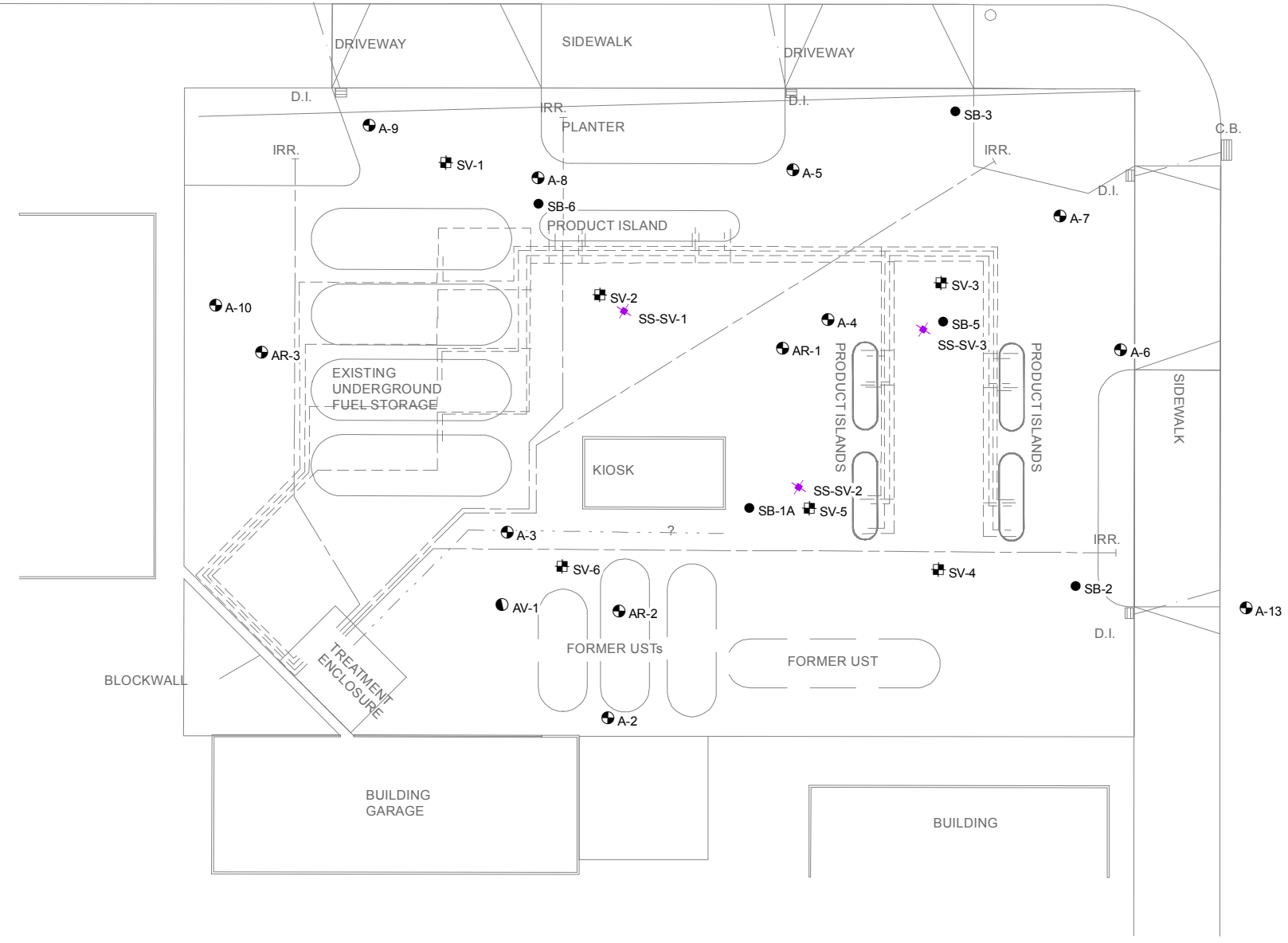
CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: msmiller LD: PIC: PM: TM: DATE: 3/17/2014 10:09:56 AM
 PROJECT: Z:\GIS\PROJECTS\ENWBP_FOXGLOVE\CA\CA04931\GIS\MXD\102014\CA-04931-Fig2_Sitemap.mxd

A-12

WEST STREET

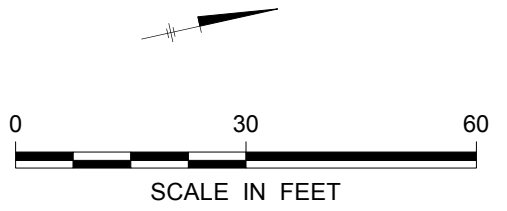
A-11

WEST MACARTHUR BOULEVARD



LEGEND:

- ✱ SUB-SLAB SOIL VAPOR SAMPLING LOCATION
- ⊕ SOIL VAPOR SAMPLE LOCATION
- SOIL BORING
- ⊙ GROUNDWATER MONITORING WELL
- ⊖ SOIL VAPOR EXTRACTION WELL
- PRODUCT/VENT LINE
- - - WATER
- · - · - SANITARY SEWER
- - - - - STORM DRAIN



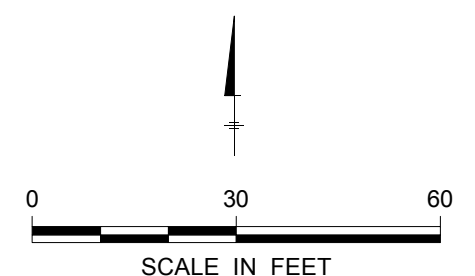
FORMER ARCO No. 4931 731 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA	
SITE PLAN	
	FIGURE 2

NOTE:
 SITE MAP ADOPTED FROM FIGURES BY OTHERS.
 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



LEGEND:

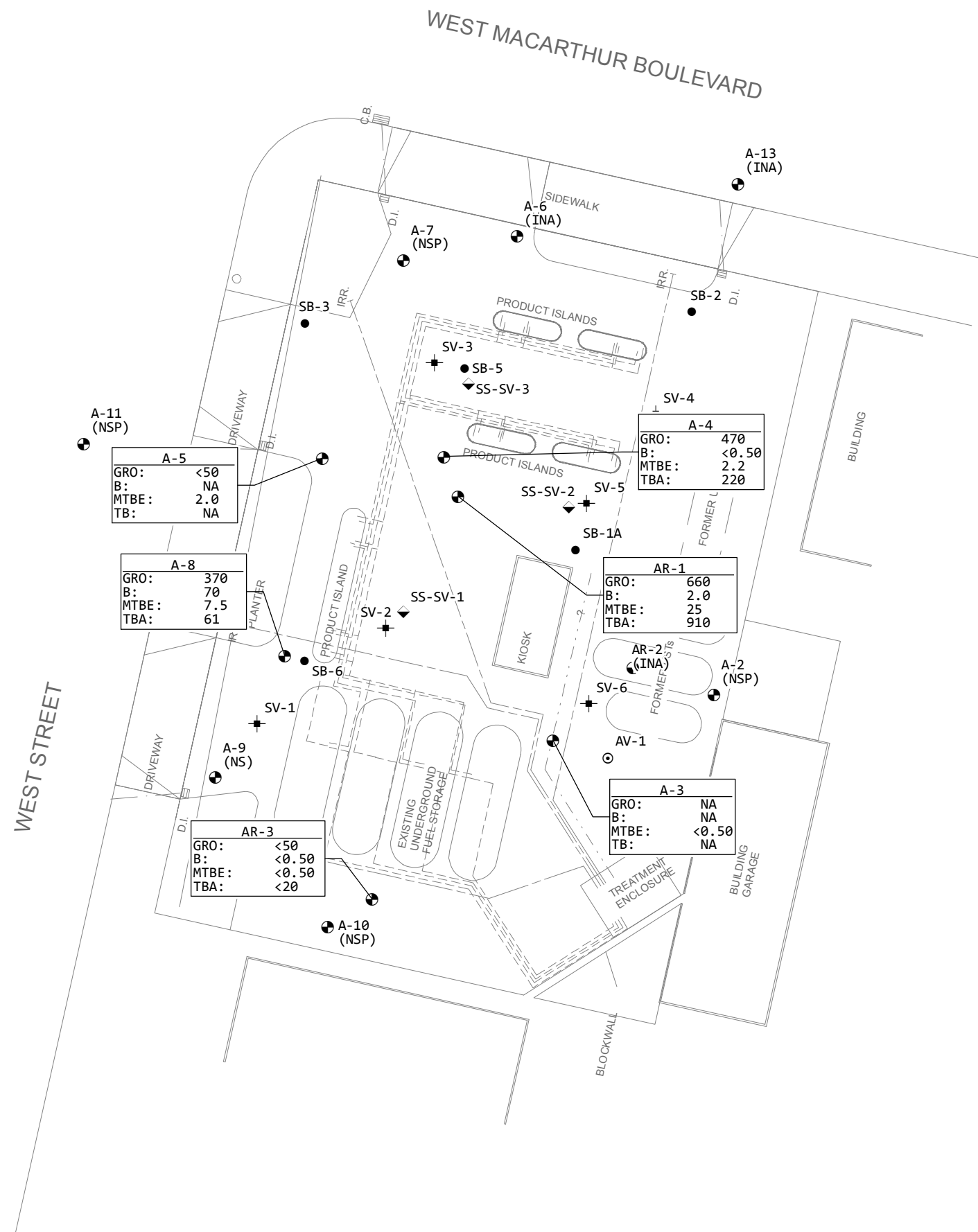
- GROUNDWATER MONITORING WELL
- SOIL BORING
- SOIL VAPOR EXTRACTION WELL
- ⊕ SOIL VAPOR SAMPLE LOCATION
- ⬇️ SUB-SLAB SOIL VAPOR SAMPLING LOCATION
- (52.57) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 50.00 — GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
- 0.02 FT/FT → GROUNDWATER FLOW DIRECTION (FOOT PER FOOT)
- (INA) WELL INACCESSIBLE
- (NM) NOT MEASURED DUE TO OBSTRUCTION IN WELL
- * NOT USED IN CONTOURING



FORMER ARCO No. 4931
 731 WEST MACARTHUR BOULEVARD,
 OAKLAND, CALIFORNIA
 FOURTH QUARTER 2014 AND FIRST QUARTER 2015
 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

**GROUNDWATER ELEVATION
 CONTOUR MAP
 FEBRUARY 27, 2015**

ARCADIS

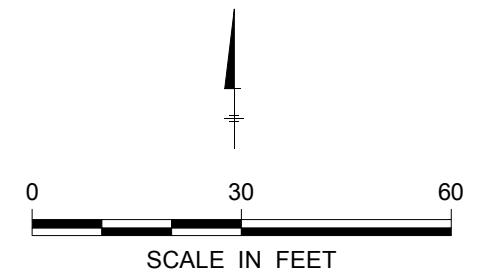


LEGEND:

- ⊕ GROUNDWATER MONITORING WELL
- SOIL BORING
- ⊙ SOIL VAPOR EXTRACTION WELL
- ⊕ SOIL VAPOR SAMPLE LOCATION
- ◇ SUB-SLAB SOIL VAPOR SAMPLING LOCATION

A-4		SAMPLE LOCATION ID
GRO:	470	
B:	<0.50	CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
MTBE:	2.2	
TBA:	220	
		ANALYTE

- GRO GASOLINE RANGE ORGANICS (C6-C12)
- B BENZENE
- MTBE METHYL TERTIARY-BUTYL ETHER
- TBA TERTIARY-BUTYL ALCOHOL
- < NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMIT
- NA NOT ANALYZED
- NS NOT SAMPLED
- NSP NOT SAMPLED IN ACCORDANCE WITH GROUNDWATER SAMPLING SCHEDULE
- INA WELL INACCESSIBLE

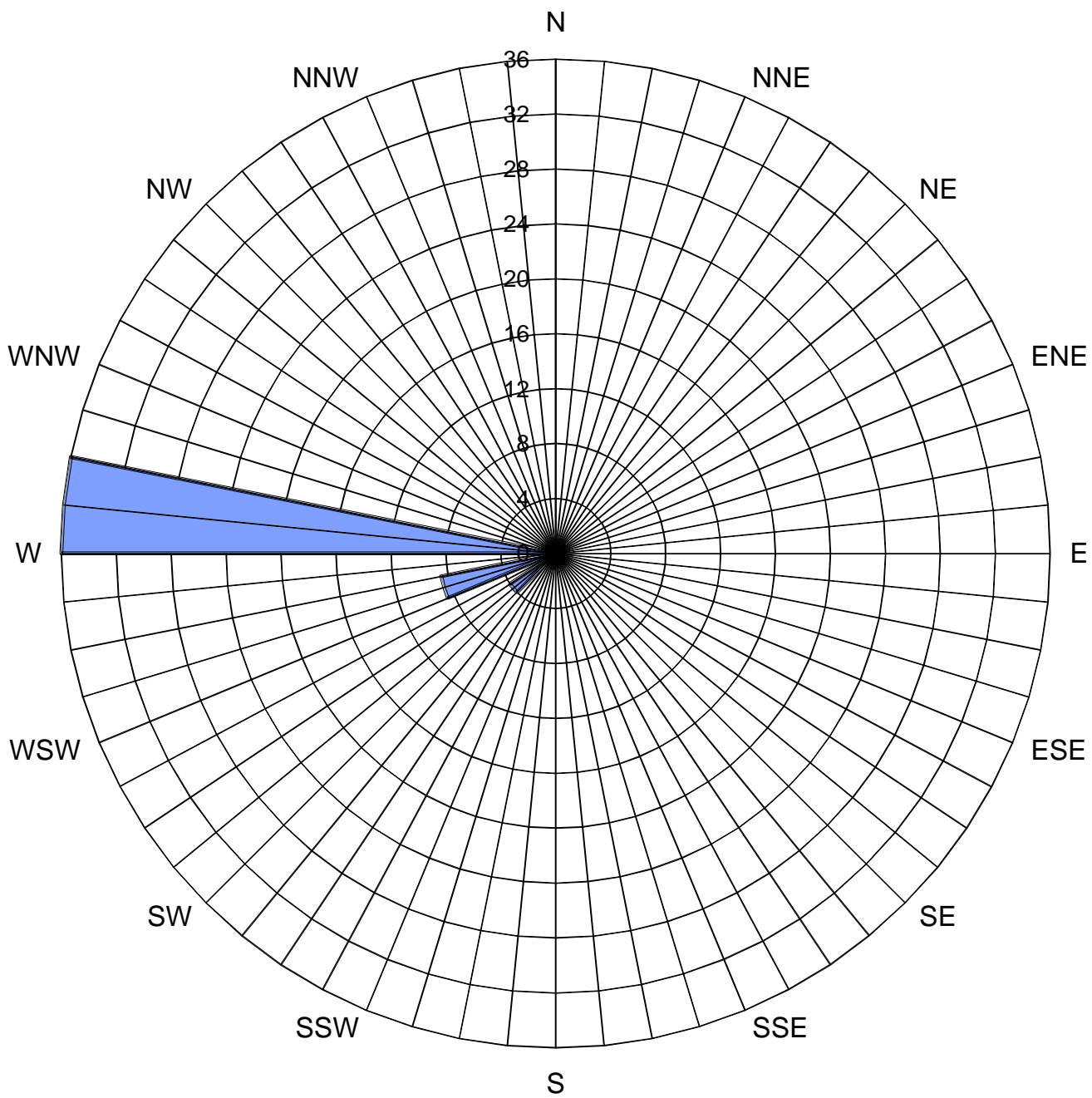


FORMER ARCO No. 4931
 731 WEST MACARTHUR BOULEVARD,
 OAKLAND, CALIFORNIA
**FOURTH QUARTER 2014 AND FIRST QUARTER 2015
 SEMI-ANNUAL GROUNDWATER MONITORING REPORT**

**ANALYTICAL SUMMARY MAP
 FEBRUARY 27, 2015**

ARCADIS

CITY: PETALUMA, CA DIV(GROUP): ENV DB: J. HARRIS LD: PIC: S. GLENN PM: S. DAVIS TM: M. MISAKIAN Lyr(OPTION): OFF=REF
 G:\ENV\CAD\Energy\file\ACT\GP08BPNA\110\00001\Q2015\DWG\GP08BPNA\110_RoseDir.dwg LAYOUT: 5 SAVED: 4/2/2015 4:28 PM ACADVER: 18.1S (LMS TECH) PAGES SETUP: 18.1S (LMS TECH) PLOTSTYLE TABLE: ARCADIS.CTB PLOTTED: 4/3/2015 10:22 AM BY: REYES, ALEC
 XREFS: IMAGES: PROJECT NAME: ---



LEGEND

CONCENTRIC CIRCLES REPRESENT 49 MONITORING EVENTS CONDUCTED BETWEEN THE SECOND QUARTER 2000 THROUGH THE FIRST QUARTER 2015.

 GROUNDWATER FLOW DIRECTION

FORMER ARCO No. 4931
 731 WEST MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA
**FOURTH QUARTER 2014 AND FIRST QUARTER 2015
 SEMI-ANNUAL MONITORING REPORT**

**GROUNDWATER FLOW DIRECTION
 ROSE DIAGRAM**

 **ARCADIS** | FIGURE **5**



Appendix A

Previous Investigations and Site
History Summary

The Site is located at 731 West MacArthur Boulevard in Oakland, California. It is an active Beacon-branded gasoline station. Improvements to the Site include four 10,000 gallon double-wall fiberglass gasoline underground storage tanks (USTs) installed on April 8, 1992. Product lines were excavated, removed, inspected, and replaced October 2, 2002. The majority of the Site surface is paved with concrete and asphalt.

The Site is bound by West MacArthur Boulevard to the north-northeast, West Street to the west-northwest and single-family residential dwellings to the south-southwest and east-southeast. Interstate 580 is located approximately 620 feet south-southwest of the Site.

A super unleaded product leak was reported to have occurred in November 1982 at the Site, however the quantity of product released is unknown (Gettler-Ryan, 4/3/1989). Wells A-1 through A-4 are known to have been installed prior to December 1982; however exact dates and consultants responsible are unknown. Wells A-5 through A-8 were installed by Groundwater Technology, Inc. (GTI) in March 1983. Wells A-9 through A-12 were installed by Pacific Environmental Group, Inc. (PEG) in December 1987. Soil samples were reportedly collected from borings A-9 through A-12 at five-foot intervals for logging purposes, but were not analyzed. Well A-9 was advanced to 45 ft below ground surface (bgs) and constructed with six-inch diameter PVC casing. Wells A-10 through A-12 were advanced to 30.5 ft bgs and constructed with three-inch diameter PVC casing and 0.020 inch slotted screen (PEG, 1/20/1988). GeoStrategies, Inc. (GSI) reported in their 15 May 1991 *Remedial Action Plan* that well A-1 was destroyed during underground storage tank (UST) replacement activities in August 1983. Additional information pertaining to the 1983 UST replacement activities was not available.

In late 1987, PEG conducted a water-supply well search within a 0.5 mile radius of the Site, as reported in their 20 January 1988 *Soil and Groundwater Investigation Report*. The Department of Water Resources (DWR) reported three historical wells within 0.5 miles of the Site. Two wells were identified approximately 1,300 feet northwest of the site. One was of an unknown depth and use, drilled in 1928. The second was drilled in 1926 to a depth of either 575 of 420 feet. The well was abandoned in 1956. The third well was identified approximately 2,400 feet west (downgradient) of the Site. It was drilled in 1927 to 97 ft bgs for industrial use.

In April 1991, GSI performed a hybrid step-drawdown/constant-rate aquifer test utilizing well A-9. The test consisted of four pumping steps followed by a recovery step. Transmissivity was calculated as 1,092 to 2,668 gallons per day per foot (gpd/ft) using Jacob's method, and 996 to 2,502 gpd/ft using the Neuman method. Storativity was calculated to be $1.18 \cdot 10^{-2}$ to $4.24 \cdot 10^{-3}$, which was reportedly indicative of a heterogeneous environment. According to GSI, "Specific yield [sic – capacity?] values ranged from $1.74 \cdot 10^{-2}$ to $9.65 \cdot 10^{-3}$," suggesting unconfined to semi-confined subsurface conditions (GSI, 7/10/1991). In GSI's *Remedial Action Plan*, dated 15 May 1991, approximately 30 years of pumping on well A-9 was modeled, which suggested that hydrodynamic control of the hydrocarbon plume within the groundwater was achievable at the Site. A groundwater extraction treatment system was proposed within the same report, designed to pump from well A-9 and treat groundwater onsite using carbon vessels.

In January 1992, GSI observed the advancement of one vapor extraction well (AV-1). AV-1 was installed to a depth of 15 ft bgs and screened from 5 ft bgs to total depth. Three Vapor Extraction Monitoring Points (VEMPs) were also installed at this time. The VEMPs were 0.75- inch diameter metal pipe driven to a depth of eight ft bgs, then withdrawn six to eight inches. The VEMPs were located at approximately four foot intervals linearly east of well AV-1. GSI conducted a four-hour vapor extraction test on 20 January 1992 on well AV-1, utilizing an internal combustion engine to create vacuum and combust vapors. Vacuum pressure in well AV-1 was sustained between 158.0 to 169.3 inches of water, while manometers were used to measure pressure changes at the VEMPs. No measurable influence was recorded at the three VEMPs, indicating less than a four-foot radius of influence for well AV-1. GSI subsequently concluded that vapor extraction was not likely to be a feasible remedial option at the Site (GSI, 5/21/1992).

Between 18 November 1991 and 8 April 1992, Roux Associates (RA) observed the UST removal and replacement installation activities. Paradiso Construction Company (Paradiso) removed one 12,000 gallon single-walled fiberglass tank, two 8,000 gallon single-walled steel tanks, and one 6,000 single-walled steel tank on 19 November 1991. It was reported that according to the ACEH and RA personnel, the former tanks appeared to be in good condition, with no holes or obvious leaks. Two preexisting four-inch tank observation wells near tank T1 were also removed at this time. Black oil staining was observed on the inside of the tank observation well casing, as well as on the surface of the exposed groundwater near where the wells were located. A vacuum truck was utilized on 21 November 1991 to remove approximately 2,800 gallons of oil/groundwater mixture from the tank cavity. Due to

reported soil staining and hydrocarbon odors, the tank cavity was over-excavated on 21 November 1991. The south end of the tank cavity (former tanks T2, T3, and T4) was excavated to approximately 14 ft bgs, while the north end (former tank T1) was excavated to approximately 12 ft bgs. Further over-excavation along the north and west side-walls of the tank cavity occurred between 20 December 1991 and 13 February 1992. The former tank cavity was backfilled on 27 February 1992 with two to four feet of pea gravel and road base aggregate to near the surface. Product lines associated with the former UST complex were excavated and removed on 1 and 2 December 1991. Select locations along the former product line trenches were overexcavated on 20 December 1991. The current UST pit excavation was initiated on 9 March 1992. Four double-walled 10,000 gallon fiberglass tanks were installed at 14 ft bgs on 8 April 1992. One 12-inch diameter slotted PVC conductor casing was installed to 13 ft bgs in the new UST cavity (RA, 7/20/1992).

On 15 and 16 June 1992 GSI observed the advancement of one soil boring offsite (A-13) and three soil borings onsite (AR-1, AR-2, and AR-3). Monitoring well A-13 was installed to a depth of 30 ft bgs and constructed with three-inch diameter Schedule 40 PVC casing and screened from 10 to 30 ft bgs with 0.020-inch machine slotted casing. Recovery wells AR-1 and AR-3 were installed to a depth of 30 ft bgs and constructed with six-inch diameter Schedule 40 PVC casing and screened from 10 to 30 ft bgs with 0.020-inch slotted carbon steel casing. Recovery well AR-2 was installed to a depth of 28 ft bgs and constructed with six-inch diameter Schedule 40 PVC casing and screened from 8 to 28 ft bgs with 0.020-inch slotted carbon steel casing. Also during second quarter 1992, a passive product skimmer was installed in well A-8 (GSI, 11/13/1992).

In late 1992, GSI oversaw the installation of an interim groundwater extraction remediation system (GWETS). The system began operation on 10 November 1992, utilizing two pumps in each of wells A-9, AR-1, AR-2, and AR-3, removing hydrocarbon impacted groundwater and free product (FP) from the subsurface. Collected FP was contained in 55-gallon drums. Groundwater was passed through a centrifugal separator, particulate filter, three in-series 1,500 pound activated carbon vessels, and ultimately discharged into the sanitary sewer system (GSI, 2/22/1994). In their *Recovery System Evaluation Report, First Quarter 1994*, dated 27 June 1994, GSI reports that the GWETS wells A-9, AR-1, AR-2, and AR-3 contain only one pump each for groundwater, and a product pump has been installed in well A-8. The GWETS was shutdown on 5 July 1995 for the following reasons cited by Pacific Environment Group, Inc. (PEG) in their *Quarterly Report – Second Quarter 1995, Remedial System Performance Evaluation*, dated 29 September 1995: 1). Since

system startup only 2.74 pounds (0.45 gallons) total petroleum hydrocarbons in the gasoline range (TPHg) and 0.46 pounds (0.06 gallons) of benzene had been removed; and 2). Downgradient wells A-11 and A-12 had remained non-detect for TPHg and benzene since groundwater monitoring began in 1988, indicating that the plume had stabilized and downgradient migration was minimal. At shutdown, the system had removed and treated approximately 4,643,696 gallons of groundwater. As of 31 December 1995, 23 pounds (3.75 gallons) of FP have been removed from the Site (PEG, 3/15/1996).

After the GWETS had been shutdown and pumps removed from the remediation wells, PEG initiated an in-situ bioremediation enhancement program. On 17 November 1995, eight oxygen releasing compound (ORC) socks were installed in well A-9. ORC is a magnesium peroxide powder, which slowly releases oxygen when hydrated (PEG, 3/15/1996).

On 2 October 2002, URS Corporation (URS) observed product line upgrade activities at the Site. The product lines were excavated, removed, inspected, and replaced. URS reported no observable cracks or deterioration of the former product lines. Soil samples were collected and analyzed from the product line trenches as well as from beneath the former dispenser islands. Two locations required minor over-excavation due to observed soil staining and hydrocarbon odors. The new product lines were replaced within the same trenches (URS, 1/21/2003).

Quarterly groundwater monitoring at the Site was initiated in the First Quarter 1989 by Gettler- Ryan, Inc. The site is currently monitored on a semiannual basis by Broadbent & Associates, Inc. (BAI) during the first and third calendar quarters.



Appendix B

Groundwater Sampling Data
Package

Gauging Data

Date 02/27/2015
 Project_Number 09-88-624
 Location 731 W. Macarthur Boulevard., Oakland, CA
 Sampler Alex Martinez

Well	Date/Time	Well Depth (ft)	Depth To Water (ft)	Depth to LNAPL (ft)	Remarks
A-10	02/27/2015 07:27	29.59	8.09		
A-11	02/27/2015 08:47	29.79	7.92		
A-12	02/27/2015 08:45	29.78	8.09		
A-13	02/27/2015 07:35	-	-		Paved over; see picture
A-2	02/27/2015 07:04	19.49	4.41		
A-3	02/27/2015 07:00	16.29	6.63		
A-4	02/27/2015 07:41	29.05	7.87		
A-5	02/27/2015 07:34	23.80	7.14		
A-7	02/27/2015 07:10	26.32	6.81		
A-8	02/27/2015 07:30	16.30	6.99		
A-9	02/27/2015 07:16	8.10	6.08		Shallower bottom than indicated on GEM. Vegetation growth may still be present.
AR-1	02/27/2015 07:24	19.37	6.95		
AR-2	02/27/2015 07:04	-	-		Well paved over; see picture.
AR-3	02/27/2015 07:22	28.90	7.60		

Signature:



A-3

Date	<u>02/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	_____
Project_Number	<u>09-88-624</u>	Well Head	_____	Well Diameter (in)	_____
Location	<u>731 W. Macarthur Boulevard,, Oakland, CA</u>	Comments	_____	Initial DTW (ft)	_____
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	_____
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

Field Parameters

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
08:59	1.0		5.23	16.45	6.54	453	2	5.7	

Sampling Summary

Sample ID	<u>A-3</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>02/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>09:05</u>	VOA Un-preserved #	_____
DTW at Sampling (ft)	<u>6.63</u>	Liter Amber #	_____
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	_____
		Other	_____
		Remarks	_____

Signature:


A-4

Date	<u>02/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	_____
Project_Number	<u>09-88-624</u>	Well Head Comments	_____	Well Diameter (in)	_____
Location	<u>731 W. Macarthur Boulevard,, Oakland, CA</u>			Initial DTW (ft)	_____
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	_____
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

Field Parameters

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
10:45	1.0		3.62	17.72	6.52	1110	-141	53.0	

Sampling Summary

Sample ID	<u>A-4</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>02/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>10:35</u>	VOA Un-preserved #	_____
DTW at Sampling (ft)	<u>7.87</u>	Liter Amber #	_____
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	_____
		Other	_____
		Remarks	_____

Signature:



A-5

Date	<u>02/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	_____
Project_Number	<u>09-88-624</u>	Well Head Comments	_____	Well Diameter (in)	_____
Location	<u>731 W. Macarthur Boulevard,, Oakland, CA</u>			Initial DTW (ft)	_____
Weather Conditions	<u>Cloudy</u>			Well Depth (ft)	_____
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

Field Parameters

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
10:09	1.0		4.02	17.17	6.37	744	-103	0.0	Light hydrocarbon odor

Sampling Summary

Sample ID	<u>A-5</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>02/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>10:10</u>	VOA Un-preserved #	_____
DTW at Sampling (ft)	<u>7.14</u>	Liter Amber #	_____
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	_____
		Other	_____
		Remarks	_____

Signature:


A-8

Date	<u>02/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	<u> </u>
Project_Number	<u>09-88-624</u>	Well Head Comments	<u> </u>	Well Diameter (in)	<u> </u>
Location	<u>731 W. Macarthur Boulevard,, Oakland, CA</u>			Initial DTW (ft)	<u> </u>
Weather Conditions	<u>Cloudy</u>			Well Depth (ft)	<u> </u>
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

Field Parameters

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
09:48	1.0		3.11	17.74	6.65	878	-102	0.0	

Sampling Summary

Sample ID	<u>A-8</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>02/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>09:45</u>	VOA Un-preserved #	<u> </u>
DTW at Sampling (ft)	<u>6.99</u>	Liter Amber #	<u> </u>
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	<u> </u>
		Other	<u> </u>
		Remarks	<u> </u>

Signature: _____



AR-1

Date	<u>02/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	_____
Project_Number	<u>09-88-624</u>	Well Head Comments	_____	Well Diameter (in)	_____
Location	<u>731 W. Macarthur Boulevard,, Oakland, CA</u>			Initial DTW (ft)	_____
Weather Conditions	<u>Cloudy</u>			Well Depth (ft)	_____
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

Field Parameters

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
10:22	1.0		3.76	16.78	6.48	976	-121	0.0	

Sampling Summary

Sample ID	<u>AR-1</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>02/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>10:20</u>	VOA Un-preserved #	_____
DTW at Sampling (ft)	<u>6.95</u>	Liter Amber #	_____
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	_____
		Other	_____
		Remarks	_____

Signature:



AR-3

Date	<u>02/27/2015</u>	Well Head Integrity	<u>Okay</u>	Pump Inlet Depth (ft)	_____
Project_Number	<u>09-88-624</u>	Well Head Comments	_____	Well Diameter (in)	_____
Location	<u>731 W. Macarthur Boulevard,, Oakland, CA</u>			Initial DTW (ft)	_____
Weather Conditions	<u>Sunny</u>			Well Depth (ft)	_____
Waste Container	<u>Tank</u>				
Waste Location	<u>Off site</u>				
Sampler	<u>Alex Martinez</u>				

Field Parameters

Time	Purge Volume (L)	DTW (ft)	DO (mg/L)	Temp (C)	pH	Conductivity (uS/cm)	ORP (mV)	Turbidity (NTU)	Remarks
09:30	1.0		3.80	16.81	7.03	412	-92	293	Water was a red/rusty color

Sampling Summary

Sample ID	<u>AR-3</u>	Purge Rate (LPM)	<u>-</u>
Sample Collection Date	<u>02/27/2015</u>	VOA Preserved #	<u>3</u>
Sample Collection Time	<u>09:25</u>	VOA Un-preserved #	_____
DTW at Sampling (ft)	<u>7.60</u>	Liter Amber #	_____
Sampled using	<u>Hydrasleeve</u>	Plastic Bottles #	_____
		Other	_____
		Remarks	_____

Signature:


4931

731 W. Macarthur Boulevard, Oakland, CA

Wells: A-13 & AR-2







Appendix C

Certified Laboratory Analytical
Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

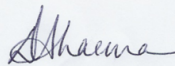
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-63235-1
Client Project/Site: Arcadis 4931, Oakland

For:
Broadbent & Associates, Inc.
4820 Business Center Drive
#110
Fairfield, California 94534

Attn: James Ramos



Authorized for release by:
3/6/2015 9:05:39 AM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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results through
TotalAccess

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Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Job ID: 720-63235-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-63235-1

Comments

No additional comments.

Receipt

The samples were received on 2/27/2015 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: A-3

Lab Sample ID: 720-63235-1

No Detections.

Client Sample ID: A-4

Lab Sample ID: 720-63235-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	2.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	470		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
TBA	220		20		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: A-5

Lab Sample ID: 720-63235-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: A-8

Lab Sample ID: 720-63235-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	7.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	70		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	370		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
TBA	61		20		ug/L	1		8260B/CA_LUFT MS	Total/NA
TAME	4.8		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: AR-1

Lab Sample ID: 720-63235-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
MTBE	25		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Benzene	2.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C6-C12	660		50		ug/L	1		8260B/CA_LUFT MS	Total/NA
TBA	910		20		ug/L	1		8260B/CA_LUFT MS	Total/NA
TAME	7.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: AR-3

Lab Sample ID: 720-63235-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Broadbent & Associates, Inc.
 Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: A-3

Lab Sample ID: 720-63235-1

Date Collected: 02/27/15 09:05

Matrix: Water

Date Received: 02/27/15 12:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			03/03/15 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130					03/03/15 13:30	1
1,2-Dichloroethane-d4 (Surr)	93		72 - 130					03/03/15 13:30	1
Toluene-d8 (Surr)	100		70 - 130					03/03/15 13:30	1



Client Sample Results

Client: Broadbent & Associates, Inc.
 Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: A-4

Lab Sample ID: 720-63235-2

Date Collected: 02/27/15 10:35

Matrix: Water

Date Received: 02/27/15 12:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	2.2		0.50		ug/L			03/03/15 23:52	1
Benzene	ND		0.50		ug/L			03/03/15 23:52	1
EDB	ND		0.50		ug/L			03/03/15 23:52	1
1,2-DCA	ND		0.50		ug/L			03/03/15 23:52	1
Ethylbenzene	ND		0.50		ug/L			03/03/15 23:52	1
Toluene	ND		0.50		ug/L			03/03/15 23:52	1
Xylenes, Total	ND		1.0		ug/L			03/03/15 23:52	1
Gasoline Range Organics (GRO)	470		50		ug/L			03/03/15 23:52	1
-C6-C12									
TBA	220		20		ug/L			03/03/15 23:52	1
Ethanol	ND		500		ug/L			03/03/15 23:52	1
DIPE	ND		0.50		ug/L			03/03/15 23:52	1
TAME	ND		0.50		ug/L			03/03/15 23:52	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/03/15 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130					03/03/15 23:52	1
1,2-Dichloroethane-d4 (Surr)	91		72 - 130					03/03/15 23:52	1
Toluene-d8 (Surr)	100		70 - 130					03/03/15 23:52	1

Client Sample Results

Client: Broadbent & Associates, Inc.
 Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: A-5

Lab Sample ID: 720-63235-3

Date Collected: 02/27/15 10:10

Matrix: Water

Date Received: 02/27/15 12:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	2.0		0.50		ug/L			03/03/15 13:58	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			03/03/15 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130					03/03/15 13:58	1
1,2-Dichloroethane-d4 (Surr)	96		72 - 130					03/03/15 13:58	1
Toluene-d8 (Surr)	100		70 - 130					03/03/15 13:58	1



Client Sample Results

Client: Broadbent & Associates, Inc.
 Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: A-8

Lab Sample ID: 720-63235-4

Date Collected: 02/27/15 09:45

Matrix: Water

Date Received: 02/27/15 12:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	7.5		0.50		ug/L			03/04/15 00:20	1
Benzene	70		0.50		ug/L			03/04/15 00:20	1
EDB	ND		0.50		ug/L			03/04/15 00:20	1
1,2-DCA	ND		0.50		ug/L			03/04/15 00:20	1
Ethylbenzene	ND		0.50		ug/L			03/04/15 00:20	1
Toluene	ND		0.50		ug/L			03/04/15 00:20	1
Xylenes, Total	ND		1.0		ug/L			03/04/15 00:20	1
Gasoline Range Organics (GRO)	370		50		ug/L			03/04/15 00:20	1
-C6-C12									
TBA	61		20		ug/L			03/04/15 00:20	1
Ethanol	ND		500		ug/L			03/04/15 00:20	1
DIPE	ND		0.50		ug/L			03/04/15 00:20	1
TAME	4.8		0.50		ug/L			03/04/15 00:20	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/04/15 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		67 - 130					03/04/15 00:20	1
1,2-Dichloroethane-d4 (Surr)	94		72 - 130					03/04/15 00:20	1
Toluene-d8 (Surr)	102		70 - 130					03/04/15 00:20	1

Client Sample Results

Client: Broadbent & Associates, Inc.
 Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: AR-1

Lab Sample ID: 720-63235-5

Date Collected: 02/27/15 10:20

Matrix: Water

Date Received: 02/27/15 12:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	25		0.50		ug/L			02/28/15 01:25	1
Benzene	2.0		0.50		ug/L			02/28/15 01:25	1
EDB	ND		0.50		ug/L			02/28/15 01:25	1
1,2-DCA	ND		0.50		ug/L			02/28/15 01:25	1
Ethylbenzene	ND		0.50		ug/L			02/28/15 01:25	1
Toluene	ND		0.50		ug/L			02/28/15 01:25	1
Xylenes, Total	1.1		1.0		ug/L			02/28/15 01:25	1
Gasoline Range Organics (GRO)	660		50		ug/L			02/28/15 01:25	1
-C6-C12									
TBA	910		20		ug/L			02/28/15 01:25	1
Ethanol	ND		500		ug/L			02/28/15 01:25	1
DIPE	ND		0.50		ug/L			02/28/15 01:25	1
TAME	7.3		0.50		ug/L			02/28/15 01:25	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/28/15 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130					02/28/15 01:25	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130					02/28/15 01:25	1
Toluene-d8 (Surr)	100		70 - 130					02/28/15 01:25	1

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: AR-3

Lab Sample ID: 720-63235-6

Date Collected: 02/27/15 09:25

Matrix: Water

Date Received: 02/27/15 12:25

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			02/28/15 01:56	1
Benzene	ND		0.50		ug/L			02/28/15 01:56	1
EDB	ND		0.50		ug/L			02/28/15 01:56	1
1,2-DCA	ND		0.50		ug/L			02/28/15 01:56	1
Ethylbenzene	ND		0.50		ug/L			02/28/15 01:56	1
Toluene	ND		0.50		ug/L			02/28/15 01:56	1
Xylenes, Total	ND		1.0		ug/L			02/28/15 01:56	1
Gasoline Range Organics (GRO)	ND		50		ug/L			02/28/15 01:56	1
-C6-C12									
TBA	ND		20		ug/L			02/28/15 01:56	1
Ethanol	ND		500		ug/L			02/28/15 01:56	1
DIPE	ND		0.50		ug/L			02/28/15 01:56	1
TAME	ND		0.50		ug/L			02/28/15 01:56	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/28/15 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130					02/28/15 01:56	1
1,2-Dichloroethane-d4 (Surr)	104		72 - 130					02/28/15 01:56	1
Toluene-d8 (Surr)	100		70 - 130					02/28/15 01:56	1

Surrogate Summary

Client: Broadbent & Associates, Inc.
 Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-63235-1	A-3	95	93	100
720-63235-2	A-4	104	91	100
720-63235-3	A-5	95	96	100
720-63235-4	A-8	99	94	102
720-63235-5	AR-1	104	102	100
720-63235-6	AR-3	101	104	100
LCS 720-176738/6	Lab Control Sample	101	98	103
LCS 720-176738/8	Lab Control Sample	106	106	101
LCS 720-176882/6	Lab Control Sample	95	93	102
LCS 720-176934/5	Lab Control Sample	95	92	101
LCS 720-176934/8	Lab Control Sample	94	92	100
LCSD 720-176738/7	Lab Control Sample Dup	101	100	102
LCSD 720-176738/9	Lab Control Sample Dup	101	102	101
LCSD 720-176882/7	Lab Control Sample Dup	94	93	103
LCSD 720-176934/6	Lab Control Sample Dup	93	92	101
LCSD 720-176934/9	Lab Control Sample Dup	93	90	101
MB 720-176738/5	Method Blank	104	104	101
MB 720-176882/5	Method Blank	94	92	101
MB 720-176934/4	Method Blank	95	94	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
 12DCE = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-176738/5

Matrix: Water

Analysis Batch: 176738

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			02/27/15 16:12	1
Benzene	ND		0.50		ug/L			02/27/15 16:12	1
EDB	ND		0.50		ug/L			02/27/15 16:12	1
1,2-DCA	ND		0.50		ug/L			02/27/15 16:12	1
Ethylbenzene	ND		0.50		ug/L			02/27/15 16:12	1
Toluene	ND		0.50		ug/L			02/27/15 16:12	1
Xylenes, Total	ND		1.0		ug/L			02/27/15 16:12	1
Gasoline Range Organics (GRO)	ND		50		ug/L			02/27/15 16:12	1
-C6-C12									
TBA	ND		20		ug/L			02/27/15 16:12	1
Ethanol	ND		500		ug/L			02/27/15 16:12	1
DIPE	ND		0.50		ug/L			02/27/15 16:12	1
TAME	ND		0.50		ug/L			02/27/15 16:12	1
Ethyl t-butyl ether	ND		0.50		ug/L			02/27/15 16:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130		02/27/15 16:12	1
1,2-Dichloroethane-d4 (Surr)	104		72 - 130		02/27/15 16:12	1
Toluene-d8 (Surr)	101		70 - 130		02/27/15 16:12	1

Lab Sample ID: LCS 720-176738/6

Matrix: Water

Analysis Batch: 176738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	26.4		ug/L		106	62 - 130
Benzene	25.0	25.3		ug/L		101	79 - 130
EDB	25.0	26.6		ug/L		106	70 - 130
1,2-DCA	25.0	25.6		ug/L		102	61 - 132
Ethylbenzene	25.0	25.2		ug/L		101	80 - 120
Toluene	25.0	24.2		ug/L		97	78 - 120
TBA	250	253		ug/L		101	70 - 130
Ethanol	1250	1470		ug/L		118	31 - 216
DIPE	25.0	27.4		ug/L		109	69 - 134
TAME	25.0	28.5		ug/L		114	79 - 130
Ethyl t-butyl ether	25.0	27.3		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	103		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-176738/8

Matrix: Water

Analysis Batch: 176738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C12	500	493		ug/L		99	58 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	106		72 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-176738/7

Matrix: Water

Analysis Batch: 176738

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MTBE	25.0	26.4		ug/L		106	62 - 130	0	20
Benzene	25.0	25.3		ug/L		101	79 - 130	0	20
EDB	25.0	26.3		ug/L		105	70 - 130	1	20
1,2-DCA	25.0	25.2		ug/L		101	61 - 132	1	20
Ethylbenzene	25.0	25.3		ug/L		101	80 - 120	0	20
Toluene	25.0	24.9		ug/L		100	78 - 120	3	20
TBA	250	257		ug/L		103	70 - 130	2	20
Ethanol	1250	1450		ug/L		116	31 - 216	1	30
DIPE	25.0	27.2		ug/L		109	69 - 134	1	20
TAME	25.0	28.3		ug/L		113	79 - 130	1	20
Ethyl t-butyl ether	25.0	26.9		ug/L		108	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-176738/9

Matrix: Water

Analysis Batch: 176738

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C12	500	488		ug/L		98	58 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	102		72 - 130
Toluene-d8 (Surr)	101		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-176882/5

Matrix: Water

Analysis Batch: 176882

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			03/03/15 08:45	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		67 - 130					03/03/15 08:45	1
1,2-Dichloroethane-d4 (Surr)	92		72 - 130					03/03/15 08:45	1
Toluene-d8 (Surr)	101		70 - 130					03/03/15 08:45	1

Lab Sample ID: LCS 720-176882/6

Matrix: Water

Analysis Batch: 176882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.3		ug/L		105	62 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	95		67 - 130				
1,2-Dichloroethane-d4 (Surr)	93		72 - 130				
Toluene-d8 (Surr)	102		70 - 130				

Lab Sample ID: LCSD 720-176882/7

Matrix: Water

Analysis Batch: 176882

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.8		ug/L		103	62 - 130	2	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	94		67 - 130						
1,2-Dichloroethane-d4 (Surr)	93		72 - 130						
Toluene-d8 (Surr)	103		70 - 130						

Lab Sample ID: MB 720-176934/4

Matrix: Water

Analysis Batch: 176934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		0.50		ug/L			03/03/15 18:17	1
Benzene	ND		0.50		ug/L			03/03/15 18:17	1
EDB	ND		0.50		ug/L			03/03/15 18:17	1
1,2-DCA	ND		0.50		ug/L			03/03/15 18:17	1
Ethylbenzene	ND		0.50		ug/L			03/03/15 18:17	1
Toluene	ND		0.50		ug/L			03/03/15 18:17	1
Xylenes, Total	ND		1.0		ug/L			03/03/15 18:17	1
Gasoline Range Organics (GRO) -C6-C12	ND		50		ug/L			03/03/15 18:17	1
TBA	ND		20		ug/L			03/03/15 18:17	1
Ethanol	ND		500		ug/L			03/03/15 18:17	1

TestAmerica Pleasanton

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-176934/4

Matrix: Water

Analysis Batch: 176934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIPE	ND		0.50		ug/L			03/03/15 18:17	1
TAME	ND		0.50		ug/L			03/03/15 18:17	1
Ethyl t-butyl ether	ND		0.50		ug/L			03/03/15 18:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		67 - 130		03/03/15 18:17	1
1,2-Dichloroethane-d4 (Surr)	94		72 - 130		03/03/15 18:17	1
Toluene-d8 (Surr)	101		70 - 130		03/03/15 18:17	1

Lab Sample ID: LCS 720-176934/5

Matrix: Water

Analysis Batch: 176934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	25.0	25.7		ug/L		103	62 - 130
Benzene	25.0	25.1		ug/L		100	79 - 130
EDB	25.0	28.5		ug/L		114	70 - 130
1,2-DCA	25.0	24.0		ug/L		96	61 - 132
Ethylbenzene	25.0	25.1		ug/L		100	80 - 120
Toluene	25.0	24.7		ug/L		99	78 - 120
TBA	250	257		ug/L		103	70 - 130
Ethanol	1250	1380		ug/L		110	31 - 216
DIPE	25.0	23.0		ug/L		92	69 - 134
TAME	25.0	27.1		ug/L		108	79 - 130
Ethyl t-butyl ether	25.0	25.1		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCS 720-176934/8

Matrix: Water

Analysis Batch: 176934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C12	500	488		ug/L		98	58 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-176934/6

Matrix: Water

Analysis Batch: 176934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MTBE	25.0	25.4		ug/L		101	62 - 130	1	20
Benzene	25.0	24.7		ug/L		99	79 - 130	1	20
EDB	25.0	28.3		ug/L		113	70 - 130	1	20
1,2-DCA	25.0	23.7		ug/L		95	61 - 132	1	20
Ethylbenzene	25.0	25.1		ug/L		100	80 - 120	0	20
Toluene	25.0	24.6		ug/L		98	78 - 120	0	20
TBA	250	254		ug/L		101	70 - 130	1	20
Ethanol	1250	1360		ug/L		109	31 - 216	1	30
DIPE	25.0	22.6		ug/L		91	69 - 134	1	20
TAME	25.0	27.0		ug/L		108	79 - 130	0	20
Ethyl t-butyl ether	25.0	25.0		ug/L		100	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		72 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-176934/9

Matrix: Water

Analysis Batch: 176934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C12	500	503		ug/L		101	58 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	90		72 - 130
Toluene-d8 (Surr)	101		70 - 130

QC Association Summary

Client: Broadbent & Associates, Inc.
 Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

GC/MS VOA

Analysis Batch: 176738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-63235-5	AR-1	Total/NA	Water	8260B/CA_LUFT MS	
720-63235-6	AR-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-176738/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-176738/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-176738/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-176738/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-176738/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 176882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-63235-1	A-3	Total/NA	Water	8260B/CA_LUFT MS	
720-63235-3	A-5	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-176882/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-176882/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-176882/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 176934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-63235-2	A-4	Total/NA	Water	8260B/CA_LUFT MS	
720-63235-4	A-8	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-176934/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-176934/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-176934/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-176934/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-176934/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Client Sample ID: A-3

Lab Sample ID: 720-63235-1

Date Collected: 02/27/15 09:05

Matrix: Water

Date Received: 02/27/15 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	176882	03/03/15 13:30	PDR	TAL PLS

Client Sample ID: A-4

Lab Sample ID: 720-63235-2

Date Collected: 02/27/15 10:35

Matrix: Water

Date Received: 02/27/15 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	176934	03/03/15 23:52	PDR	TAL PLS

Client Sample ID: A-5

Lab Sample ID: 720-63235-3

Date Collected: 02/27/15 10:10

Matrix: Water

Date Received: 02/27/15 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	176882	03/03/15 13:58	PDR	TAL PLS

Client Sample ID: A-8

Lab Sample ID: 720-63235-4

Date Collected: 02/27/15 09:45

Matrix: Water

Date Received: 02/27/15 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	176934	03/04/15 00:20	PDR	TAL PLS

Client Sample ID: AR-1

Lab Sample ID: 720-63235-5

Date Collected: 02/27/15 10:20

Matrix: Water

Date Received: 02/27/15 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	176738	02/28/15 01:25	ASC	TAL PLS

Client Sample ID: AR-3

Lab Sample ID: 720-63235-6

Date Collected: 02/27/15 09:25

Matrix: Water

Date Received: 02/27/15 12:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	176738	02/28/15 01:56	ASC	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Pleasanton

Certification Summary

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

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Method Summary

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

Client: Broadbent & Associates, Inc.
Project/Site: Arcadis 4931, Oakland

TestAmerica Job ID: 720-63235-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-63235-1	A-3	Water	02/27/15 09:05	02/27/15 12:25
720-63235-2	A-4	Water	02/27/15 10:35	02/27/15 12:25
720-63235-3	A-5	Water	02/27/15 10:10	02/27/15 12:25
720-63235-4	A-8	Water	02/27/15 09:45	02/27/15 12:25
720-63235-5	AR-1	Water	02/27/15 10:20	02/27/15 12:25
720-63235-6	AR-3	Water	02/27/15 09:25	02/27/15 12:25

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San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

phone 925.484.1919 fax 925.600.3002

720-63235

Chain of Custody Record

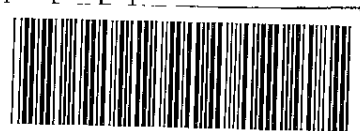
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

159594

TestAmerica Laboratories, Inc.

3/6/2015

Client Contact		Project Manager: James Ramos				Site Contact/Sampler: Alex Martinez				Date:				COC No:													
Broadbent & Associates, Inc. 4820 Business Center Drive, Suite 110 Fairfield, CA 94534 Phone: 707-455-7290 Fax: 707-863-9046 Project Name: Arcadis 4931 731 W. Macarthur Blvd., Oakland, CA P O # GP09BPNA.C110		Tel/Fax: 707-455-7290 / 707-863-9046				Lab Contact: Dimple Sharma				Carrier:				of COCs													
		Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below <u>Standard</u>				<table border="1"> <tr> <td>Filtered Sample</td> <td>GRO, BTEX & MTBE by 8260</td> <td>5 Fuels Olys, EDB & 1,2-DCA by 8260</td> <td>Ethanol by 8260</td> <td>GRO by 8260</td> <td>MTBE by 8260</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Filtered Sample	GRO, BTEX & MTBE by 8260	5 Fuels Olys, EDB & 1,2-DCA by 8260	Ethanol by 8260	GRO by 8260	MTBE by 8260							Job No.		SDG No.			
Filtered Sample	GRO, BTEX & MTBE by 8260	5 Fuels Olys, EDB & 1,2-DCA by 8260	Ethanol by 8260	GRO by 8260	MTBE by 8260																						
		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								Sample Specific Notes:																	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.																					
A-3		2/27/2015	0905	GRAB	AQ	3						X															
A-4		2/27/2015	1035	GRAB	AQ	3	X	X	X																		
A-5		2/27/2015	1010	GRAB	AQ	3				X	X																
A-8		2/27/2015	0945	GRAB	AQ	3	X	X	X																		
AR-1		2/27/2015	1020	GRAB	AQ	3	X	X	X																		
AR-2		2/27/2015	-	GRAB	AQ	3	X	X	X																		
AR-3		2/27/2015	0925	GRAB	AQ	3	X	X	X																		
TB-4931-02272015		--	--	--	AQ	2									On Hold												
 720-63235 Chain of Custody																											
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other																											
Possible Hazard Identification																											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown																											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																											
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																											
Special Instructions:																											
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																	
Alex Ramos		Broadbent		2/27/15/1235		Jovan Mule		Test America		2-27-15/1235																	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																	

Login Sample Receipt Checklist

Client: Broadbent & Associates, Inc.

Job Number: 720-63235-1

Login Number: 63235

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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>	Fourth Quarter 2014 and First Quarter 2015 Semi-Annual Groundwater Monitoring Report 041715
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Report Date:</u>	4/17/2015
<u>Facility Global ID:</u>	T0600100110
<u>Facility Name:</u>	ARCO #04931
<u>File Name:</u>	RO0000076_GWM_R_4Q1Q15_2015-0416.pdf
<u>Organization Name:</u>	ARCADIS
<u>Username:</u>	ARCADISBP
<u>IP Address:</u>	72.37.248.37
<u>Submittal Date/Time:</u>	4/17/2015 10:22:10 AM
<u>Confirmation Number:</u>	6693534195

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