

MacArthur Boulevard Associates  
10700 MacArthur Blvd., Suite 200  
Oakland, CA 94605-5260  
510-562-9500 / 510-562-9505 Fax

January 12, 2016

**RECEIVED**

By Alameda County Environmental Health 1:18 pm, Jan 12, 2016

Mr. Jerry Wickham  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**Subject: Perjury Statement and Report Transmittal  
Groundwater Monitoring Report – 2<sup>nd</sup> Semester 2015**  
10700 MacArthur Blvd.  
Oakland, California  
AEI Project # 261829  
Toxics Case No. RO0002580

Dear Mr. Wickham:

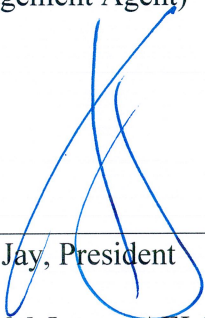
I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me at (510) 562-9500, or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

MACARTHUR BOULEVARD ASSOCIATES  
(a California limited partnership)

BY: JAY-PHARES CORPORATION  
(Its Management Agent)

By:   
\_\_\_\_\_  
John Jay, President

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597



# AEI Consultants

Environmental & Engineering Services

January 12, 2016

## GROUNDWATER MONITORING REPORT- 2nd SEMESTER 2015

**Property Identification:**

10700 MacArthur Boulevard  
Oakland, California 94605

AEI Project No. 261829  
Toxics Case No. RO0002580

**Prepared for:**

Jay-Phares Corporation  
Attn: Mr. John Jay  
10700 MacArthur Blvd., Suite 200  
Oakland, CA 94605

**Prepared by:**

AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597  
(925) 746-6000

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January 12, 2016

Jay-Phares Corporation  
Attn: Mr. John Jay  
10700 MacArthur Blvd., Suite 200  
Oakland, CA 94605

**Subject: Groundwater Monitoring Report – 2<sup>nd</sup> Semester, 2015**  
10700 MacArthur Boulevard  
Oakland, California 94605  
AEI Project No. 261829  
Toxics Case No. RO0002580

Dear Mr. Jay:

AEI Consultants (AEI) has prepared this groundwater monitoring report on behalf of The Jay-Phares Corporation, the manager of the Foothill Square Shopping Center. Groundwater monitoring was performed to document groundwater quality beneath and around the Site and to monitor the stability of the chlorinated volatile organic compound (VOC) plume beneath the property.

This report was prepared in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA). This report summarizes the activities and results of the semi-annual monitoring activities conducted on October 26, 2015.

## Background

The subject property (hereinafter referred to as the site or property) is located at 10700 MacArthur Boulevard (see Figure 1). The site is approximately 13.5 acres in size and is currently developed with the Foothill Square Shopping Center. The shopping center consists of five buildings, totaling approximately 155,600 square feet. The area of concern is the former Young's Cleaners, located on the north side of the property.

The site is situated in a mixed commercial and residential area of Oakland. It is bounded by MacArthur Boulevard to the west, Foothill Boulevard to the east, and 108th Avenue to the south. An ARCO gasoline station is located adjacent to the northwest and residences to the north. Refer to Figure 2 for a site plan of the western section of the Foothill Square Shopping Center property.

To date, extensive site assessment activities have been conducted, including the installation of monitoring wells, soil borings, and soil vapor borings, as well as source removal excavation. The most recent investigation included additional soil vapor borings, which were completed for vapor phase contaminant delineation. An approval for pilot study site mitigation activities was

obtained from the ACHCSA, and the pilot study activities are currently ongoing. For a complete history of previous site investigation activities, please refer to AEI's *Interim Remediation Status Report* dated June 10, 2015.

### **Summary of Monitoring Activities**

On October 26, 2015, AEI gauged the groundwater levels in each of the accessible active groundwater monitoring wells at the site (including Wells AMW-1, AMW-6R, AMW-8, AMW-9, FHS MW-10, and FHS MW-11). Groundwater samples were collected from each of the wells (AMW-1, AMW-6R, AMW-8, AMW-9, and FHS MW-11) in accordance with the approved sampling schedule except for well FHS MW-10, which was not sampled during this monitoring event due to inaccessibility of the well. All accessible wells were first opened and water levels allowed to equilibrate with atmospheric pressure. The depth to water from the top of the well casings was measured with an electric water level indicator prior to sampling. Upon equilibration, the wells were then purged of at least three well volumes either using a battery-powered submersible pump or bailed by hand. Field data sheets are included in Appendix A.

During well purging, groundwater parameters, including temperature, pH, specific conductivity, dissolved oxygen, and oxidation-reduction potential (ORP), were measured and the turbidity was visually noted. Once the above parameters had stabilized, and the wells were allowed to recharge to a minimum of 90% of their original standing water volume, a groundwater sample was collected. Groundwater samples were collected from each well using a submersible pump or disposable bailers.

Upon collection, groundwater samples were transferred into three 40-milliliter volatile organic analysis (VOA) vials. These sample containers were capped so that no headspace or air bubbles were visible. The samples were labeled with unique identifiers, stored over ice inside a chilled ice chest. The samples were transported under chain-of-custody documentation to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644). Groundwater samples were analyzed for halogenated volatile organic compounds (HVOCs) using EPA Method 8260.

### **Field Results**

Generally, the wells at the site are categorized as being screened either within a shallow water-bearing zone or a deeper water-bearing zone. Shallow zone wells (AMW-1 and AMW-6R) are screened at depths between approximately 16 and 25 feet below ground surface (bgs). Deeper water-bearing zone wells (AMW-8, AMW-9, and FHS MW-10 and FHS MW-11) are generally screened at depths between approximately 21 and 33 feet bgs. Well screen intervals, where known, are presented in Table 1.

Since the last monitoring event, groundwater elevations in the shallow water-bearing zone decreased in well AMW-1 by 1.28 feet, and decreased by 8.83 feet in AMW-6R back to typical elevations from the anomalously high elevation observed during the 1<sup>st</sup> Semester event. Groundwater elevations in the deeper water-bearing zone generally decreased between approximately 1 and 4 feet with the exception of AMW-8 which increased by approximately 6.5 feet. The groundwater elevation in shallow zone Well AMW-1 was measured at 39.22 feet above mean sea level (msl). Due to lack of survey data for monitoring well AMW-6R and

limited number of wells, sufficient data was not available to generating a groundwater elevation map for the shallow zone. Historically, shallow zone groundwater typically flows to the west. Groundwater elevations in the deeper water-bearing zone ranged from 21.49 to 43.55 feet msl. The differences in groundwater elevations between the shallow and deeper water-bearing zones suggests that the deeper water-bearing zone occurs under semi-confined/confined conditions. Groundwater flow in the deeper zone is to the west-southwest at a gradient of approximately 0.04 feet per foot (ft/ft), which is relatively consistent with previous findings.

Historical groundwater level data, including the data obtained during this event, is summarized in Table 1. Groundwater elevation contours for deeper zone monitoring wells are shown in Figure 3. Refer to Appendix A for Groundwater Monitoring Well Field Sampling Forms.

### **Groundwater Quality**

Tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2 dichloroethene (cis-1,2 DCE) were detected in groundwater in shallow well AMW-6R at concentrations of 590 micrograms per liter ( $\mu\text{g/L}$ ), 130  $\mu\text{g/L}$ , and 110  $\mu\text{g/L}$  respectively. Concentrations of these constituents were relatively consistent and within the same order of magnitude as those detected during the previous monitoring event. PCE was detected in well AMW-1 at a concentration of 2.2  $\mu\text{g/L}$ . No other HVOCs were detected in AMW-1 at or above the laboratory detection limits. PCE was detected in deeper zone wells (AMW-8, AMW-9, and FHS MW-11) at concentrations between of 3.1 and 110  $\mu\text{g/L}$ . No cis-1,2-DCE or trans-1,2-dichloroethene (trans-1,2-DCE) was detected at or above the laboratory detection limit in any of the deeper zone groundwater samples. The distribution of HVOCs detected in groundwater during this event is shown on Figure 4.

Historical groundwater quality data, including the results obtained during this event, is presented in Table 2. Certified analytical laboratory reports and chain of custody documentation are provided in Appendix B.

### **Summary**

The report presents the findings of the second semi-annual groundwater monitoring event at the site, conducted during the 2<sup>rd</sup> Quarter 2015. Findings were generally consistent with historical data at the Site. The groundwater monitoring well network will continue to be sampled by AEI in accordance with the ACHCSA-approved semi-annual sampling schedule. The next groundwater monitoring event is scheduled for May 2016.

## Report Limitations and Signatures

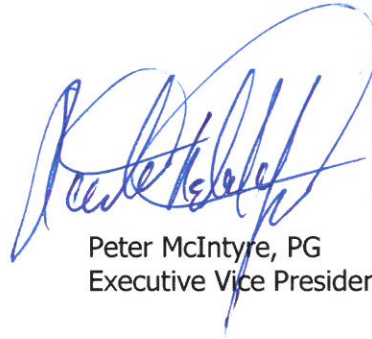
This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of the site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and consulting field, which existed at the time and location of the work. If you have any questions regarding our investigation, please do not hesitate to contact one of us at (925) 746-6000.

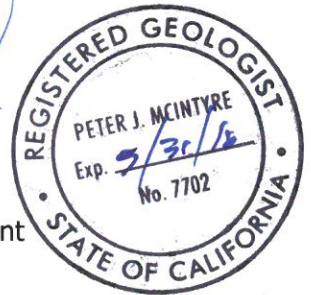
Sincerely,  
**AEI Consultants**



Jeremy Smith  
Senior Project Manager



Peter McIntyre, PG  
Executive Vice President



## Figures

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Map – Deep Wells (10/26/15)
- Figure 4: Groundwater Analytical Data (10/26/15)

## Tables

- Table 1: Groundwater Level Data
- Table 2: Groundwater Sample Analytical Data

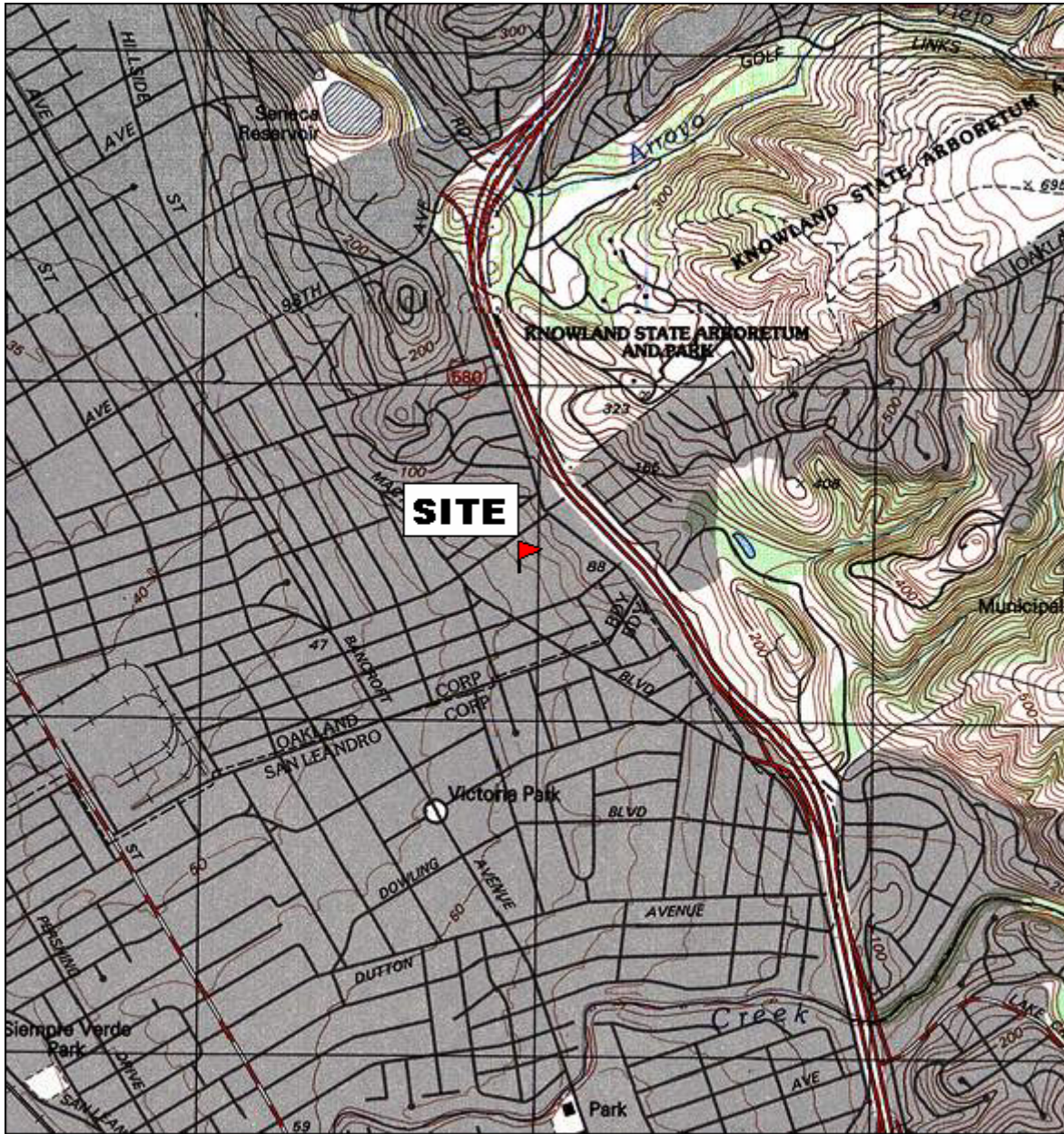
**Appendix A:** Groundwater Monitoring Well Field Sampling Forms

**Appendix B:** Laboratory Analyses with Chain of Custody Documentation

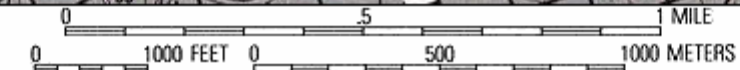
## Distribution:

Mr. Jerry Wickham, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250,  
Alameda, CA 94502 (electronic copy)  
Jay-Phares Corporation, Attn: John Jay, 10700 MacArthur Blvd., Oakland, California 94605  
Geotracker electronic upload

## FIGURES



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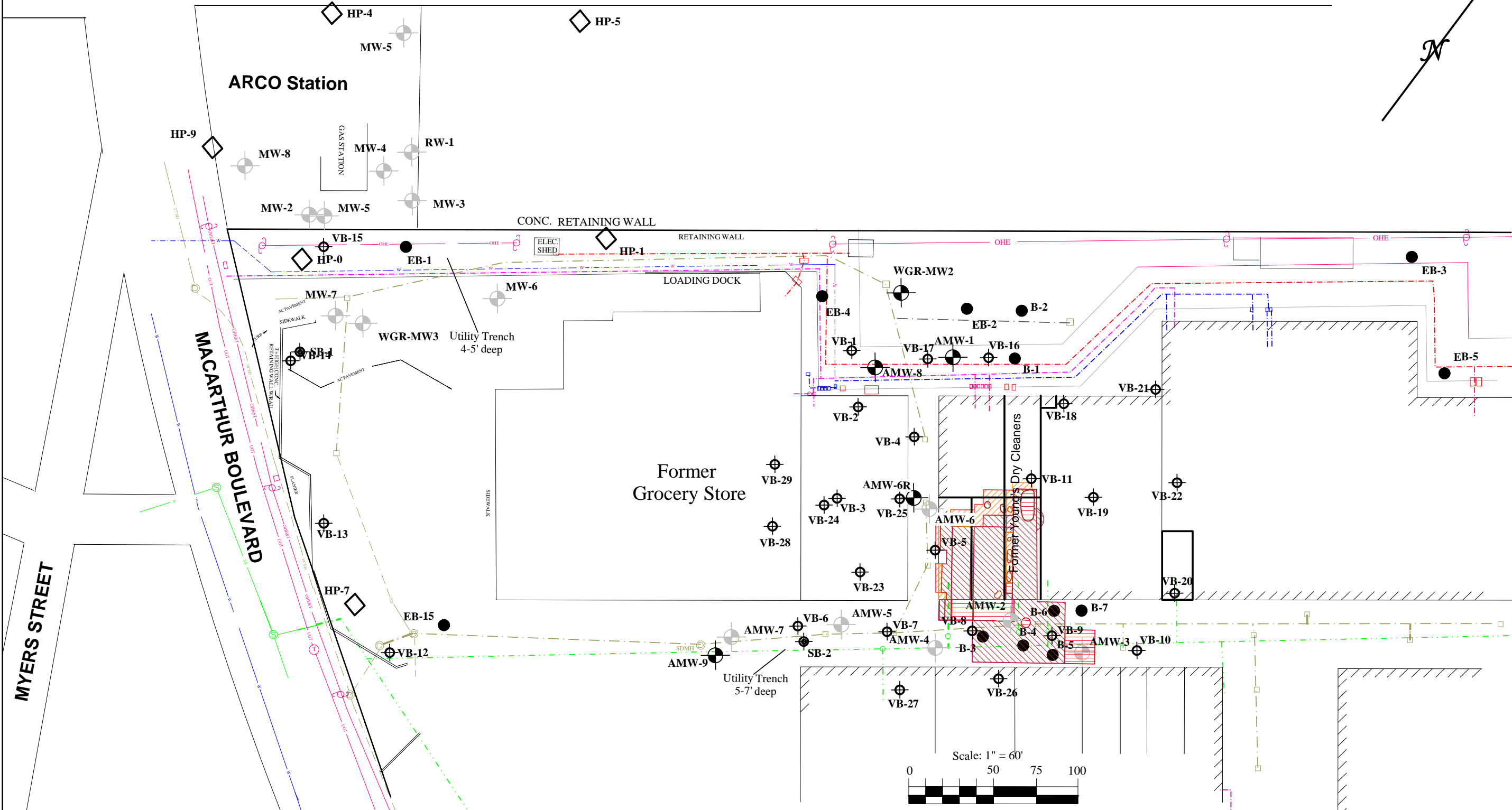
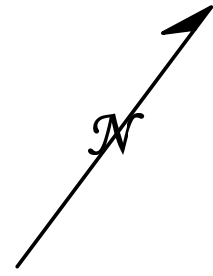


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<b>AEI CONSULTANTS</b> 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597	
<b>SITE LOCATION MAP</b>	
10700 MACARTHUR BLVD OAKLAND, CALIFORNIA	<b>FIGURE 1</b> PROJECT No. 261829



106 th AVENUE



- KEY**
- EB-1 ● Soil Boring - Kaldveer 1988
  - B-1 ● Soil Boring - Augeas 1994
  - HP-8 ◊ CPT Boring/HydroPunch Sample - PES 1997
  - MW4 ⊕ Groundwater Monitoring Well
  - ⊕ Soil Vapor Sample
  - ⊙ Soil Boring - AEI 2006

- Excavated to depth of 5 to 7 feet bgs
- Excavated to depth of 8 to 13 feet bgs
- Excavated to depth of 14 to 18 feet bgs
- Abandoned Monitoring Well

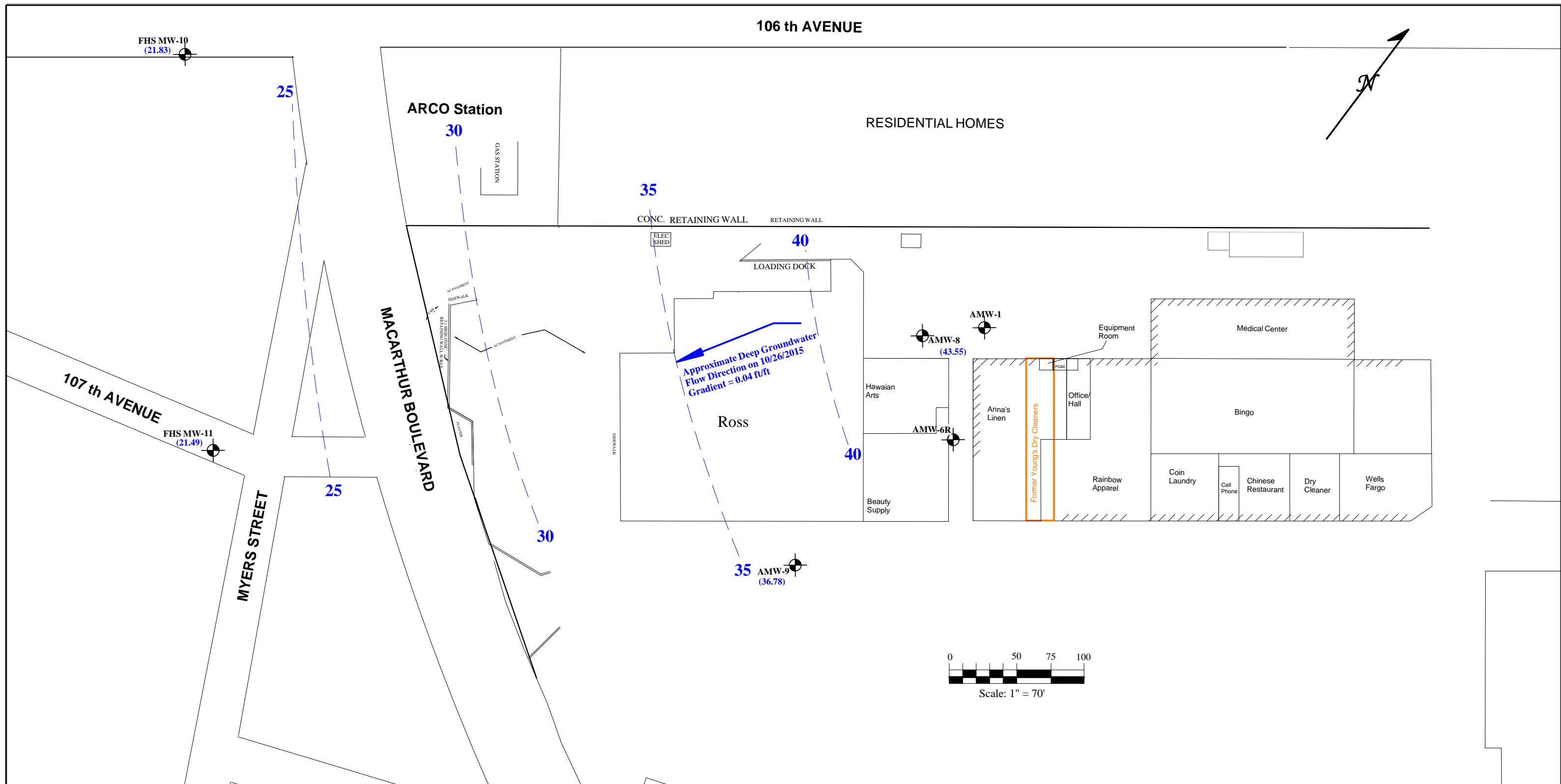
- On Site Storm Drain
  - Off Site Storm Drain
  - On Site Sanitary Sewer
  - Off Site Sanitary Sewer
  - On Site Underground Power
  - On Site Gas Line
- Drafted 6/30/05 - RFF on Dirk Slooten base  
Revised 05/08 by J.SMITH

**AEI CONSULTANTS**  
2500 CAMINO DIABLO, WALNUT CREEK, CA

**SITE PLAN**

10700 MACARTHUR BLVD.  
OAKLAND, CALIFORNIA

**FIGURE 2**  
PROJECT NO. 261829



**KEY**

- Groundwater Monitoring Well
- AMW-9 (37.86) = Groundwater Elevation (msl)
- Groundwater Elevation Contour (feet, msl)

**AEI CONSULTANTS**

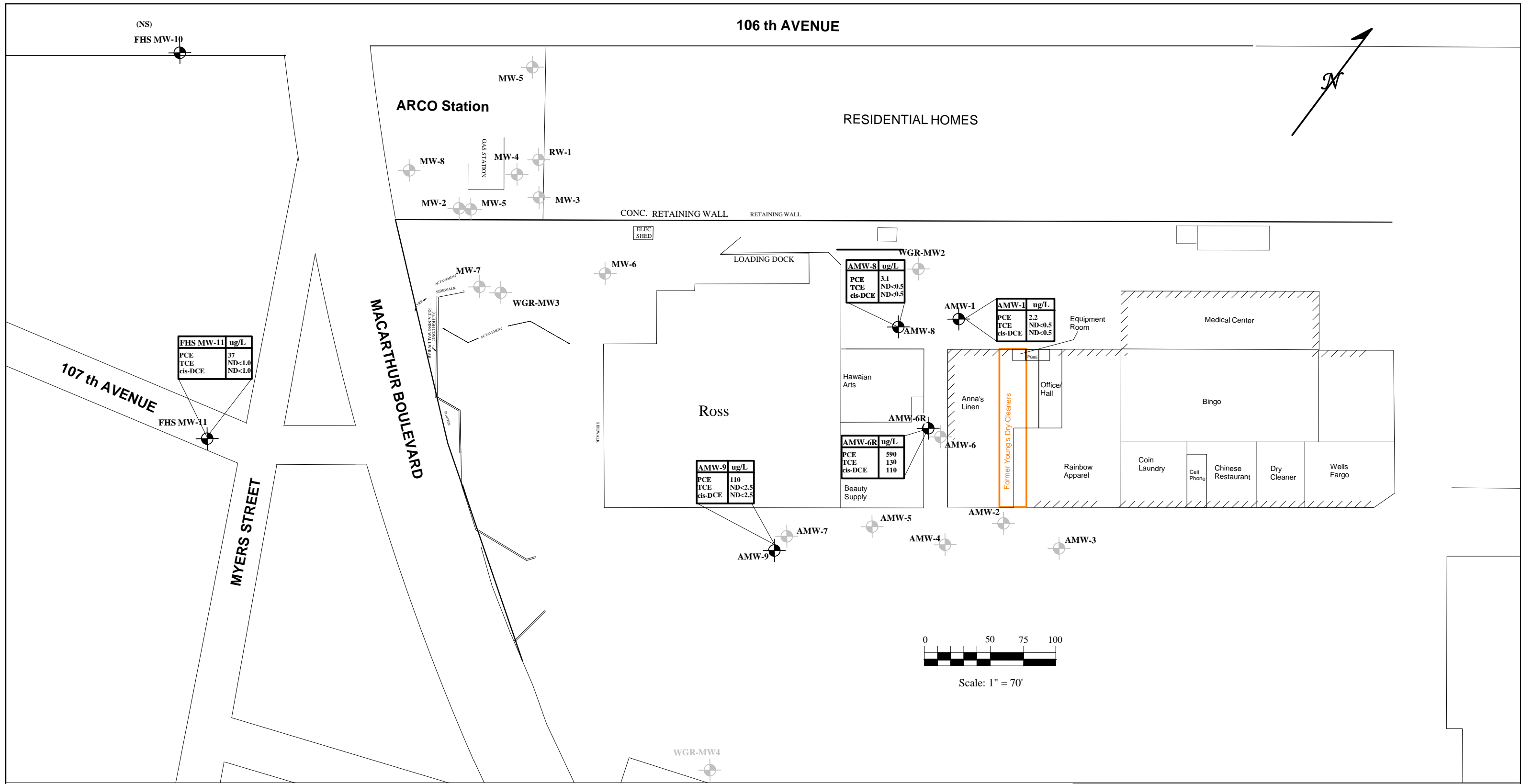
2500 CAMINO DIABLO, WALNUT CREEK, CA



**Groundwater Elevation Map -  
Deep Wells (10/26/15)**

10700 MACARTHUR BLVD.  
OAKLAND, CALIFORNIA

**FIGURE 3**  
PROJECT NO. 261829

(25.55) Groundwater Elevation (NAVD88)



- KEY**
-  Abandoned Monitoring Well
  -  Groundwater Monitoring Well

PCE = tetrachloroethene  
TCE = trichloroethene  
cis-DCE = cis 1,2-Dichloroethene  
ug/L = micrograms per liter (ppb)  
NS = not sampled

<b>AEI CONSULTANTS</b>	
2500 CAMINO DIABLO, WALNUT CREEK, CA	
<b>Groundwater Analytical Data</b> (10/26/15)	
10700 MACARTHUR BLVD. OAKLAND, CALIFORNIA	<b>FIGURE 4</b> PROJECT NO. 261829

## TABLES

**Table 1**  
**Groundwater Level Data**  
**10700 MacArthur Blvd., Oakland, California**

Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
AMW-1 (Shallow)	1/29/1999	24-34	64.51	23.01	41.50
	5/5/1999		64.51	21.25	43.26
	10/9/1999		64.51	24.14	40.37
	1/20/2000		64.51	24.66	39.85
	8/8/2000		64.51	23.30	41.21
	2/15/2001		64.51	23.22	41.29
	8/29/2001		64.51	24.38	40.13
	3/12/2002		64.51	21.29	43.22
	9/27/2002		64.51	23.62	40.89
	3/25/2003		64.51	22.45	42.06
	10/2/2003		64.51	24.31	40.20
	10/17/2006		64.51	22.91	41.60
	5/3/2007		64.51	18.61	45.90
	10/17/2007		64.51	23.97	40.54
	4/1/2008		64.51	22.02	42.49
	10/2/2008		64.51	24.21	40.30
	4/2/2009		64.51	22.49	42.02
	10/2/2009		64.51	24.38	40.13
	4/9/2010		64.51	21.68	42.83
	11/10/2010		64.51	24.11	40.40
	5/27/2011		64.51	20.98	43.53
	10/19/2011		64.51	23.41	41.10
	4/30/2012		64.51	22.19	42.32
	10/29/2012		64.51	24.31	40.20
	4/26/2013		64.51	22.39	42.12
	10/11/2013		64.51	24.37	40.14
4/16/2014	64.51	23.01	41.50		
10/14/2014	64.51	24.73	39.78		
5/7/2015	64.51	24.01	40.50		
<b>10/26/2015</b>	<b>64.51</b>	<b>25.29</b>	<b>39.22</b>		
AMW-4 (Shallow)	1/29/1999	15-25	64.79	11.51	53.28
	5/5/1999		64.79	10.14	54.65
	10/9/1999		64.79	12.04	52.75
	1/20/2000		64.79	13.50	51.29
	8/8/2000		64.79	11.74	53.05
	2/15/2001		64.79	12.32	52.47
	8/29/2001		64.79	12.40	52.39
	3/12/2002		64.79	10.13	54.66
	9/27/2002		64.79	12.14	52.65
	3/25/2003		64.79	11.03	53.76
	10/2/2003		64.79	12.33	52.46
	10/17/2006		64.79	12.76	52.03
	5/3/2007		64.79	11.11	53.68
	10/17/2007		64.79	12.64	52.15
	4/1/2008		64.79	11.49	53.30
	10/2/2008		64.79	13.34	51.45
	4/2/2009		64.79	12.21	52.58
	10/2/2009		64.79	13.91	50.88
	4/9/2010		64.79	11.23	53.56
	11/10/2010		64.79	12.85	51.94
5/27/2011	64.79	10.25	54.54		
10/19/2011	64.79	12.42	52.37		
4/30/2012	64.79	11.49	53.30		
10/29/2012			Well Destroyed during Construction		

**Table 1**  
**Groundwater Level Data**  
**10700 MacArthur Blvd., Oakland, California**

<b>Well ID (Aquifer zone)</b>	<b>Date</b>	<b>Screen Interval (ft bgs)</b>	<b>Well Elevation (ft msl)</b>	<b>Depth to Water (ft)</b>	<b>Groundwater Elevation (ft msl)</b>
AMW-5 (Shallow)	1/29/1999	20-30	64.97	13.87	51.10
	5/5/1999		64.97	12.83	52.14
	10/9/1999		64.97	14.25	50.72
	1/20/2000		64.97	14.91	50.06
	8/8/2000		64.97	14.14	50.83
	2/15/2001		64.97	14.32	50.65
	8/29/2001		64.97	14.72	50.25
	3/12/2002		64.97	13.12	51.85
	9/27/2002		64.97	14.62	50.35
	3/25/2003		64.97	13.45	51.52
	10/2/2003		64.97	14.74	50.23
	10/17/2006		64.97	14.15	50.82
	5/3/2007		64.97	13.92	51.05
	10/17/2007		64.97	15.06	49.91
	4/1/2008		64.97	14.14	50.83
	10/2/2008		64.97	15.72	49.25
	4/2/2009		64.97	14.62	50.35
	10/2/2009		64.97	16.18	48.79
	4/9/2010		64.97	13.98	50.99
	11/10/2010		64.97	15.78	49.19
5/27/2011	64.97	13.65	51.32		
10/19/2011	64.97	14.68	50.29		
4/30/2012	64.97	14.87	50.10		
10/29/2012	Well Destroyed during Construction				
AMW-6 (Shallow)	1/29/1999	? - 25	65.10	12.74	52.36
	5/5/1999		65.10	11.30	53.80
	10/9/1999		65.10	13.29	51.81
	1/20/2000		65.10	14.21	50.89
	8/8/2000		65.10	12.95	52.15
	2/15/2001		65.10	12.64	52.46
	8/29/2001		65.10	13.65	51.45
	3/12/2002		65.10	11.41	53.69
	9/27/2002		65.10	13.25	51.85
	3/25/2003		65.10	12.22	52.88
	10/2/2003		65.10	14.74	50.36
	10/17/2006		65.10	11.46	53.64
	5/3/2007		65.10	13.04	52.06
	10/17/2007		65.10	13.87	51.23
	4/1/2008		65.10	12.64	52.46
	10/2/2008		65.10	14.54	50.56
4/2/2009	65.10	13.38	51.72		
10/2/2009	65.10	16.03	49.07		
4/9/2010	65.10	12.75	52.35		
11/10/2010	65.10	14.56	50.54		
5/27/2011	Well Destroyed and Replaced with AMW-6R				
AMW-6R (Shallow)	5/27/2011	13-23	NA	14.70	NA
	10/19/2011		NA	14.50	NA
	4/30/2012		NA	15.94	NA
	10/29/2012		NA	14.54	NA
	4/26/2013		NA	14.18	NA
	10/11/2013		NA	14.58	NA
	4/16/2014		NA	13.84	NA
	10/14/2014		NA	16.31	NA
	5/7/2015		NA	7.18	NA
<b>10/26/2015</b>	<b>NA</b>	<b>16.01</b>	<b>NA</b>		

**Table 1**  
**Groundwater Level Data**  
**10700 MacArthur Blvd., Oakland, California**

<b>Well ID (Aquifer zone)</b>	<b>Date</b>	<b>Screen Interval (ft bgs)</b>	<b>Well Elevation (ft msl)</b>	<b>Depth to Water (ft)</b>	<b>Groundwater Elevation (ft msl)</b>
AMW-7 (Shallow)	1/29/1999	Unknown	64.24	14.91	49.33
	5/5/1999		Well Covered during construction		
AMW-8 (Deep)	1/29/1999	? - 45	64.55	16.86	47.69
	5/5/1999		64.55	14.46	50.09
	10/9/1999		64.55	17.10	47.45
	1/20/2000		64.55	18.51	46.04
	8/8/2000		64.55	16.71	47.84
	2/15/2001		64.55	17.31	47.24
	8/29/2001		64.55	18.30	46.25
	3/12/2002		64.55	16.03	48.52
	9/27/2002		64.55	18.03	46.52
	3/25/2003		64.55	17.31	47.24
	10/2/2003		64.55	21.54	43.01
	10/17/2006		64.55	16.05	48.5
	5/3/2007		64.55	23.01	41.54
	10/17/2007		64.55	18.34	46.21
	4/1/2008		64.55	17.49	47.06
	10/2/2008		64.55	19.10	45.45
	4/2/2009		64.55	18.18	46.37
	10/2/2009		64.55	19.75	44.80
	4/9/2010		64.55	17.76	46.79
	11/10/2010		64.55	19.41	45.14
	5/27/2011		64.55	15.92	48.63
	10/19/2011		64.55	17.15	47.40
	4/30/2012		64.55	17.16	47.39
10/29/2012	64.55	18.72	45.83		
4/26/2013	64.55	17.61	46.94		
10/11/2013	64.55	19.11	45.44		
4/16/2014	64.55	18.02	46.53		
10/14/2014	64.55	20.98	43.57		
5/7/2015	64.55	27.57	36.98		
	<b>10/26/2015</b>		<b>64.55</b>	<b>21.00</b>	<b>43.55</b>
AMW-9 (Deep)	1/29/1999	? - 55	63.48	23.22	40.26
	5/5/1999		63.48	21.40	42.08
	10/9/1999		63.48	23.74	39.74
	1/20/2000		63.48	24.92	38.56
	8/8/2000		63.48	23.01	40.47
	2/15/2001		63.48	21.20	42.28
	8/29/2001		63.48	22.59	40.89
	3/12/2002		63.48	21.94	41.54
	9/27/2002		63.48	24.16	39.32
	3/25/2003		63.48	23.00	40.48
	10/2/2003		63.48	23.80	39.68
	10/17/2006		63.48	23.07	40.41
	5/3/2007		63.48	23.17	40.31
	10/17/2007		63.48	24.97	38.51
	4/1/2008		63.48	22.97	40.51
	10/2/2008		63.48	25.65	37.83
	4/2/2009		63.48	23.80	39.68
	10/2/2009		63.48	25.98	37.50
	4/9/2010		63.48	22.80	40.68
	11/10/2010		63.48	25.36	38.12
	5/27/2011		63.48	21.73	41.75
	10/19/2011		63.48	24.07	39.41
	4/30/2012		63.48	22.90	40.58
10/29/2012	63.48	25.49	37.99		
4/26/2013	63.48	23.49	39.99		
10/11/2013	63.48	25.33	38.15		
4/16/2014	63.48	24.53	38.95		
10/14/2014	63.48	26.22	37.26		
5/7/2015	63.48	25.62	37.86		
	<b>10/26/2015</b>		<b>63.48</b>	<b>26.70</b>	<b>36.78</b>

**Table 1**  
**Groundwater Level Data**  
**10700 MacArthur Blvd., Oakland, California**

<b>Well ID (Aquifer zone)</b>	<b>Date</b>	<b>Screen Interval (ft bgs)</b>	<b>Well Elevation (ft msl)</b>	<b>Depth to Water (ft)</b>	<b>Groundwater Elevation (ft msl)</b>
WGR MW-2 (Shallow)	1/29/1999	23-28	63.18	23.41	39.77
	5/5/1999		63.18	21.41	41.77
	10/9/1999		63.18	24.62	38.56
	1/20/2000		63.18	25.24	37.94
	8/8/2000		63.18	23.41	39.77
	8/29/2001		63.18	25.09	38.09
	3/12/2002		63.18	21.86	41.32
	9/27/2002		63.18	24.69	38.49
	3/25/2003		63.18	23.71	39.47
	10/2/2003		63.18	25.13	38.05
	10/17/2006		63.18	23.91	39.27
	5/3/2007		63.18	24.11	39.07
	10/17/2007		63.18	NA	NA
	4/1/2008		63.18	22.83	40.35
	10/2/2008		63.18	25.53	37.65
	4/2/2009		63.18	23.23	39.95
	10/2/2009		63.18	25.70	37.48
	4/9/2010		63.18	22.36	40.82
	11/10/2010		63.18	24.79	38.39
	5/27/2011		63.18	21.56	41.62
	10/19/2011		63.18	24.06	39.12
	4/30/2012		63.18	NA	NA
	10/29/2012		63.18	29.05	34.13
4/26/2013	63.18	23.54	39.64		
10/11/2013	63.18	25.72	37.46		
4/16/2014	63.18	24.42	38.76		
		Destroyed/ Covered with Black Top			
WGR MW-3 (Shallow)	1/29/1999	22-27	58.34	15.81	42.53
	5/5/1999		58.34	18.43	39.91
	10/9/1999		58.34	21.38	36.96
	1/20/2000		58.34	19.76	38.58
	8/8/2000		58.34	20.88	37.46
	8/29/2001		58.34	21.22	37.12
	3/12/2002		58.34	14.80	43.54
	9/27/2002		58.34	22.32	36.02
	3/25/2003		58.34	18.07	40.27
	10/2/2003		58.34	22.22	36.12
	10/17/2006		58.34	21.85	36.49
	5/3/2007		58.34	18.37	39.97
	10/17/2007		58.34	NA	NA
	4/1/2008		58.34	18.74	39.60
	10/2/2008		58.34	23.62	34.72
	4/2/2009		58.34	17.89	40.45
	10/2/2009		58.34	22.16	36.18
4/9/2010	58.34	15.71	42.63		
11/10/2010	58.34	21.75	36.59		
5/27/2011	Well Destroyed by ARCO; Case Closure at 10600 MacArthur Blvd.				



**Table 1**  
**Groundwater Level Data**  
**10700 MacArthur Blvd., Oakland, California**

Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
WGR MW-4 (Deep)	1/29/1999	23-45	60.02	26.23	33.79
	5/5/1999		60.02	23.80	36.22
	10/9/1999		60.02	27.73	32.29
	1/20/2000		60.02	27.97	32.05
	8/8/2000		60.02	26.00	34.02
	2/15/2001		60.02	26.55	33.47
	8/29/2001		60.02	27.14	32.88
	3/12/2002		60.02	24.90	35.12
	9/27/2002		60.02	27.09	32.93
	3/25/2003		60.02	25.75	34.27
	10/2/2003		60.02	27.41	32.61
	10/17/2006		60.02	26.31	33.71
	5/3/2007		60.02	26.13	33.89
	10/17/2007		60.02	28.33	31.69
	4/1/2008		60.02	25.91	34.11
	10/2/2008		60.02	28.85	31.17
	4/2/2009		60.02	25.77	34.25
	10/2/2009		60.02	28.81	31.21
	4/9/2010		60.02	25.01	35.01
	11/10/2010		60.02	28.14	31.88
5/27/2011	60.02	24.51	35.51		
10/19/2011	60.02	26.97	33.05		
4/30/2012	60.02	24.48	35.54		
10/29/2012	60.02	28.23	31.79		
4/26/2013	Well Destroyed during Construction				
FHS MW-10 (Deep)	1/29/1999	42-52	52.34	23.91	28.43
	5/5/1999		52.34	20.55	31.79
	10/9/1999		52.34	25.00	27.34
	1/20/2000		52.34	27.23	25.11
	8/8/2000		52.34	24.06	28.28
	2/15/2001		52.34	24.16	28.18
	8/29/2001		52.34	26.11	26.23
	3/12/2002		52.34	23.94	28.40
	9/27/2003		52.34	25.86	26.48
	3/25/2003		52.34	23.20	29.14
	10/6/2003		52.34	26.39	25.95
	10/17/2006		52.34	24.35	27.99
	5/3/2007		52.34	23.97	28.37
	10/17/2007		52.34	27.71	24.63
	4/1/2008		52.34	23.79	28.55
	10/2/2008		52.34	28.40	23.94
	4/2/2009		52.34	23.80	28.54
	10/2/2009		52.34	28.51	23.83
	4/9/2010		52.34	22.04	30.30
	11/10/2010		52.34	NA	NA
5/27/2011	52.34	21.28	31.06		
10/19/2011	52.34	24.18	28.16		
4/30/2012	52.34	22.41	29.93		
10/29/2012	52.34	25.25	27.09		
4/26/2013	52.34	25.49	26.85		
10/11/2013	52.34	28.83	23.51		
4/16/2014	52.34	28.12	24.22		
10/14/2014	52.34	31.15	21.19		
5/7/2015	52.34	26.79	25.55		
<b>10/26/015</b>	<b>52.34</b>	<b>30.51</b>	<b>21.83</b>		

**Table 1**  
**Groundwater Level Data**  
**10700 MacArthur Blvd., Oakland, California**

Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	
FHS MW-11 (Deep)	1/29/1999	59-64	54.06	26.38	27.68	
	5/5/1999		54.06	22.72	31.34	
	10/9/1999		54.06	27.42	26.64	
	1/20/2000		54.06	29.31	24.75	
	8/8/2000		54.06	26.11	27.95	
	2/15/2001		54.06	26.43	27.63	
	8/29/2001		54.06	28.28	25.78	
	3/12/2002		54.06	21.61	32.45	
	9/27/2002		54.06	27.93	26.13	
	3/25/2003		54.06	45.21	8.85	
	10/2/2003				Well Inaccessible	
	10/17/2006		54.06	26.54	27.52	
	5/3/2007		54.06	26.25	27.81	
	10/17/2007		54.06	29.88	24.18	
	4/1/2008		54.06	26.02	28.04	
	10/2/2008		54.06	30.61	23.45	
	4/2/2009		54.06	26.09	27.97	
	10/5/2009*		54.06	30.80	23.26	
	4/9/2010		54.06	21.51	32.55	
	11/10/2010		54.06	NA	NA	
	5/27/2011		54.06	23.38	30.68	
	10/19/2011		54.06	27.23	26.83	
	4/30/2012		54.06	24.60	29.46	
	10/29/2012		54.06	28.29	25.77	
	4/26/2013		54.06	29.02	25.04	
	10/11/2013		54.06	30.94	23.12	
	4/16/2014		54.06	29.19	24.87	
	10/14/2014		54.06	32.23	21.83	
	5/7/2015		54.06	27.95	26.11	
	<b>10/26/2015</b>		<b>54.06</b>	<b>32.57</b>	<b>21.49</b>	
MW-6 (Deep)	1/29/1999	37.5-56	61.78	32.87	28.91	
	5/5/1999		61.78	29.41	32.37	
	9/10/1999		61.78	33.98	27.80	
	1/20/2000		61.78	36.02	25.76	
	8/8/2000		61.78	32.73	29.05	
	2/15/2001		61.78	33.34	28.44	
	8/29/2001		61.78	34.98	26.80	
	3/12/2002		61.78	30.72	31.06	
	9/27/2002		61.78	34.50	27.28	
	3/25/2003		61.78	32.08	29.70	
	10/2/2003		61.78	34.86	26.92	
	10/17/2006		61.78	32.58	29.20	
	5/3/2007		61.78	32.54	29.24	
	10/17/2007		61.78	36.20	25.58	
	4/1/2008		61.78	32.39	29.39	
	10/2/2008		61.78	36.86	24.92	
	4/2/2009		61.78	32.67	29.11	
	10/2/2009		61.78	36.98	24.80	
	4/9/2010		61.78	30.09	31.69	
	11/10/2010		61.78	35.87	25.91	
5/27/2011			Well Destroyed by ARCO; Case Closure at 10600 MacArthur Blvd.			

**Table 1**  
**Groundwater Level Data**  
**10700 MacArthur Blvd., Oakland, California**

Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-7	1/20/2000	17.5-37.5	58.64	20.32	38.32
(Shallow)	8/8/2000		58.64	20.50	38.14
	2/15/2001		58.64	16.95	41.69
	8/29/2001		58.64	21.61	37.03
	3/12/2002		58.64	17.03	41.61
	9/27/2002		58.64	22.73	35.91
	3/25/2003		58.64	19.09	39.55
	10/2/2003		58.64	22.46	36.18
	10/17/2006		58.64	22.19	36.45
	5/3/2007		58.64	19.52	39.12
	10/17/2007		58.64	21.49	37.15
	4/1/2008		58.64	19.73	38.91
	10/2/2008		58.64	24.64	34.00
	4/2/2009		58.64	18.60	40.04
	10/2/2009		58.64	22.60	36.04
	4/9/2010		58.64	17.57	41.07
	11/10/2010		58.64	22.16	36.48
	5/27/2011	Well Destroyed by ARCO; Case Closure at 10600 MacArthur Blvd.			

Notes: All well elevations are measured from the top of casing not from the ground surface.  
ft msl = feet above mean sea level  
\* = Car parked over well, reading taken 3 days later then other wells.  
NA = not available

**Table 2**  
**Groundwater Sample Analytical Data**  
**10700 MacArthur Blvd., Oakland, California**

Well (aquifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L
AMW-1 (shallow)	3/23/95	Augeus	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	6/21/95	Augeus	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/11/95	Augeus	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/16/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/17/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/23/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/29/97	PES	NS	NS	NS	NS	NS
	1/20/00	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/8/00	AEI	NS	NS	NS	NS	NS
	2/15/01	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	AEI	NS	NS	NS	NS	NS
	3/12/02	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	AEI	NS	NS	NS	NS	NS
	3/25/03	AEI	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5
	10/2/03	AEI	NS	NS	NS	NS	NS
	10/17/06	AEI	ND<0.5	ND<0.5	2.2	ND<0.5	ND<RL
	5/2/07	AEI	ND<0.5	ND<0.5	ND<0.5	0.69	ND<RL
	10/17/07	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/1/08	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/2/08	AEI	ND<0.5	ND<0.5	0.60	ND<0.5	ND<RL
	4/2/09	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/2/09	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/9/10	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/25/10	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/27/11	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/19/11	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/30/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/29/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/11/13	AEI	ND<0.5	ND<0.5	0.62	ND<0.5	ND<RL
	04/16/14	AEI	ND<0.5	ND<0.5	0.68	ND<0.5	ND<RL
	10/14/14	AEI	ND<0.5	ND<0.5	0.69	ND<0.5	ND<RL
05/07/15	AEI	ND<0.5	ND<0.5	0.50	ND<0.5	ND<RL	
10/26/15	AEI	ND<0.5	ND<0.5	2.2	ND<0.5	ND<RL	
AMW-4 (shallow)	5/15/95	Augeus	NR	ND<50	2400	ND<50	NR
	6/21/95	Augeus	NR	ND<50	2500	ND<50	NR
	9/13/95	Augeus	NR	ND<25	1100	ND<25	NR
	4/16/96	PES	ND<10	ND<10	1200	10	NR
	7/17/96	PES	ND<10	ND<10	860	ND<10	NR
	10/23/96	PES	ND<0.5	ND<0.5	22	0.5	NR
	9/29/97	PES	ND<3	ND<3	340	3	NR
	1/29/99	AEI	ND<3	ND<3	100	ND<3	ND<3
	5/5/99	AEI	ND<5	ND<5	210	ND<5	ND<5
	9/10/99	AEI	10	ND<5	240	18	ND<5
	1/20/00	AEI	46	ND<2.5	97	6.2	ND<2.5
	8/8/00	AEI	ND<5	ND<5	440	8	ND<5
	2/15/01	AEI	ND<2.5	ND<2.5	81	2.6	ND<2.5
	8/29/01	AEI	ND<2.5	ND<2.5	230	4.6	ND<2.5
	3/12/02	AEI	ND<5.0	ND<5.0	190	ND<5.0	ND<5.0
	9/27/02	AEI	ND<5.0	ND<5.0	220	ND<5.0	10***
	3/25/03	AEI	1.2	ND<1.0	22	1.9	ND<1.0
	10/2/03	AEI	2.8	ND<0.5	50	2.8	ND<0.5
	10/17/06	AEI	9.9	ND<0.5	6.5	ND<0.5	ND<RL
	5/3/07	AEI	2.7	ND<0.5	5.1	1.2	ND<RL**
	10/17/07	AEI	4.0	ND<0.5	6.2	ND<0.5	ND<RL
	4/1/08	AEI	3.3	ND<0.5	5.8	2.6	0.85**
	10/2/08	AEI	11.0	ND<1.0	34	2.9	ND<RL <sup>3</sup>
4/2/09	AEI	2.8	ND<0.5	8.0	0.76	ND<RL <sup>4</sup>	
10/2/09	AEI	11	ND<0.5	4.3	0.89	ND<RL <sup>5</sup>	
4/9/10	AEI	1.9	ND<0.5	11	1.6	ND<RL <sup>7</sup>	
10/22/10	AEI	ND<0.5	ND<0.5	0.76	0.53	ND<RL	
5/27/11	AEI	ND<0.5	ND<0.5	1.9	0.75	ND<RL	
10/19/11	AEI	6.0	ND<0.5	1.2	0.68	ND<RL	
4/30/12	AEI	0.73	ND<0.5	1.0	0.82	ND<RL	
10/29/12			Well Destroyed During Construction				

**Table 2**  
**Groundwater Sample Analytical Data**  
**10700 MacArthur Blvd., Oakland, California**

Well (aquifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L	
AMW-5 (shallow)	5/15/95	Augeus	NR	ND<0.5	1.2	ND<0.5	NR	
	6/21/95	Augeus	NR	ND<0.5	ND<0.5	ND<0.5	NR	
	9/13/95	Augeus	NR	ND<0.5	ND<0.5	ND<0.5	NR	
	4/16/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NR	
	7/17/96	PES	ND<0.5	ND<0.5	0.6	ND<0.5	NR	
	10/23/96	PES	ND<0.5	ND<0.5	0.8	ND<0.5	NR	
	9/29/97	PES	ND<0.5	ND<0.5	13	ND<0.5	NR	
	1/29/99	AEI	NA	NA	NA	NA	NA	
	5/5/99	AEI	ND<1	ND<1	36	ND<1	ND<1	
	9/10/99	AEI	ND<1	ND<1	35	ND<1	ND<1	
	1/20/00	AEI	ND<1	ND<1	36	ND<1	ND<1	
	8/8/00	AEI	ND<0.5	ND<0.5	50	0.72	ND<0.5	
	2/15/01	AEI	ND<0.5	ND<0.5	26	0.76	ND<0.5	
	8/29/01	AEI	ND<0.5	ND<0.5	28	0.87	ND<0.5	
	3/12/02	AEI	ND<0.5	ND<0.5	25	0.75	ND<0.5	
	9/27/02	AEI	ND<0.5	ND<0.5	17	ND<0.5	ND<0.5	
	3/25/03	AEI	ND<1.0	ND<1.0	23	ND<1.0	ND<1.0	
	10/2/03	AEI	ND<0.5	ND<0.5	20	0.58	ND<0.5	
	10/17/06	AEI	0.68	ND<0.5	22	0.88	ND<RL	
	5/3/07	AEI	0.91	ND<0.5	42	2.0	ND<RL	
	10/17/07	AEI	1.2	ND<0.5	42	2.0	ND<RL	
	4/1/08	AEI	1.7	ND<0.5	50	2.8	ND<RL	
	10/2/08	AEI	1.5	ND<1.0	46	2.3	ND<RL	
	4/2/09	AEI	ND<1.7	ND<1.7	56	2.9	ND<RL	
	10/2/09	AEI	0.87	ND<0.5	31	1.4	ND<RL	
	4/9/10	AEI	ND<1.0	ND<1.0	35	2.1	ND<RL	
	10/22/10	AEI	0.93	ND<1.0	29	2.0	ND<RL	
	5/27/11	AEI	0.76	ND<0.5	23	1.9	ND<RL	
	10/19/11	AEI	ND<0.5	ND<0.5	20	1.5	ND<RL	
	4/30/12	AEI	0.59	ND<0.5	8.1	1.2	ND<RL	
10/29/12			Well Destroyed During Construction					
AMW-6 (shallow)	9/13/95	Augeus	NR	ND<25	930	ND<25	NR	
	4/16/96	PES	20	ND<10	1900	110	NR	
	7/17/96	PES	ND<30	ND<30	3300	280	NR	
	10/23/96	PES	ND<30	ND<30	2900	140	NR	
	9/29/97	PES	220	70	4600	580	NR	
	1/29/99	AEI	270	77	2400	390	ND<63	
	5/5/99	AEI	370	110	2700	470	ND<71	
	9/10/99	AEI	190	49	1400	250	ND<36	
	1/20/00	AEI	210	ND<35	1600	270	ND<35	
	8/8/00	AEI	150	56	1100	180	ND<25	
	2/15/01	AEI	190	40	930	200	ND<25	
	8/29/01	AEI	77	17	780	110	ND<10	
	3/12/02	AEI	150	37	1300	170	ND<25	
	9/27/02	AEI	67	ND<17	490	91	ND<17	
	3/25/2003	AEI	94	ND<33	740	110	ND<33	
	10/2/2003	AEI	66	13	440	60	ND<10	
	10/17/2006	AEI	32	4.9	98	14	ND<RL	
	5/3/2007	AEI	32	ND<5.0	120	22	ND<RL	
	10/17/2007	AEI	48	8.4	140	27	ND<RL <sup>2</sup>	
	4/1/2008	AEI	39	6.2	140	24	ND<RL	
	10/2/2008	AEI	43	7.1	130	26	ND<RL	
	4/2/2009	AEI	50	8.1	250	37	ND<RL	
	10/2/2009	AEI	55	11	240	44	ND<RL <sup>6</sup>	
4/9/2010	AEI	56	ND<25	530	61	ND<RL		
10/22/2010	AEI	48	10	260	42	ND<RL		
5/27/2011			Destroyed and Replaced with Well AMW-6R					

**Table 2**  
**Groundwater Sample Analytical Data**  
**10700 MacArthur Blvd., Oakland, California**

Well (aquifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L
<b>AMW-6R</b> (shallow)	5/27/2011	AEI	54	7.5	210	45	ND<RL
	10/19/2011	AEI	86	ND<12	570	86	ND<RL
	4/30/2012	AEI	74	8.6	220	65	ND<RL
	10/29/12	AEI	93	14	520	92	ND<RL
	04/26/13	AEI	92	<25	410	98	ND<RL
	10/11/13	AEI	100	15	540	110	ND<RL
	04/16/14	AEI	110	ND<12	540	110	ND<RL
	10/14/14	AEI	120	ND<25	490	110	ND<RL
	05/07/15	AEI	120	ND<25	690	140	ND<RL
	<b>10/26/15</b>	<b>AEI</b>	<b>110</b>	<b>ND&lt;17</b>	<b>590</b>	<b>130</b>	<b>ND&lt;RL</b>
<b>AMW-7</b> (shallow)	9/13/95	Augeus	NR	ND<25	2350	340	NR
	4/16/96	PES	2200	60	2300	500	NR
	7/17/96	PES	2100	ND<30	2400	530	NR
	10/23/96	PES	3100	50	3400	610	NR
	9/29/97	PES	33	20	520	100	NR
	1/29/99	AEI	22	ND<3	95	12	ND<3
	5/5/99	AEI	Well Covered During Construction				
<b>AMW-8</b> (deep)	9/13/95	Augeus	-	ND<25	95	ND<25	ND<25
	4/16/96	PES	ND<0.5	ND<0.5	0.8	ND<0.5	ND<0.5
	7/17/96	PES	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5
	10/23/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/29/97	PES	ND<0.5	ND<0.5	0.7	ND<0.5	ND<0.5
	1/20/00	AEI	ND<0.5	ND<0.5	0.73	ND<0.5	ND<0.5
	8/8/00	AEI	NS	NS	NS	NS	NS
	2/15/01	AEI	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5
	8/29/01	AEI	NS	NS	NS	NS	NS
	3/12/02	AEI	ND<0.5	ND<0.5	7.5	ND<0.5	ND<0.5
	9/27/02	AEI	NS	NS	NS	NS	NS
	3/25/03	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/2/03	AEI	NS	NS	NS	NS	NS
	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/07	AEI	NS	NS	NS	NS	NS
	10/17/07	AEI	ND<0.5	ND<0.5	1.6	ND<0.5	ND<RL
	4/1/08	AEI	NS	NS	NS	NS	NS
	10/2/08	AEI	ND<0.5	ND<0.5	1.3	ND<0.5	ND<RL
	4/2/09	AEI	NS	NS	NS	NS	NS
	10/2/09	AEI	ND<0.5	ND<0.5	1.4	ND<0.5	ND<RL
	4/9/10	AEI	NS	NS	NS	NS	NS
	10/25/10	AEI	ND<0.5	ND<0.5	2.2	ND<0.5	ND<RL
	5/27/11	AEI	NS	NS	NS	NS	NS
	10/19/11	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/30/12	AEI	NS	NS	NS	NS	NS
	10/29/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	AEI	NS	NS	NS	NS	NS
10/11/13	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
04/16/14	AEI	NS	NS	NS	NS	NS	
10/14/14	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
05/07/15	AEI	NS	NS	NS	NS	NS	
<b>10/26/15</b>	<b>AEI</b>	<b>ND&lt;0.5</b>	<b>ND&lt;0.5</b>	<b>3.1</b>	<b>ND&lt;0.5</b>	<b>ND&lt;RL</b>	

**Table 2**  
**Groundwater Sample Analytical Data**  
**10700 MacArthur Blvd., Oakland, California**

Well (aquifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L
<b>AMW-9</b> <b>(deep)</b>	9/13/95	Augeus	NR	ND<25	170	ND<25	NR
	4/16/96	PES	7	ND<3	170	4	NR
	7/17/96	PES	ND<3	ND<3	190	4	NR
	10/23/96	PES	ND<3	ND<3	190	ND<3	NR
	9/29/97	PES	ND<3	ND<3	110	ND<3	NR
	1/29/99	AEI	ND<4	ND<4	90	ND<4	ND<4
	5/5/99	AEI	ND<2.5	ND<2.5	94	ND<2.5	ND<2.5
	9/10/99	AEI	ND<2.1	ND<2.1	99	ND<2.1	ND<2.1
	1/20/00	AEI	ND<0.5	ND<0.5	100	ND<0.5	ND<0.5
	8/8/00	AEI	ND<2.5	ND<2.5	130	ND<2.5	ND<2.5
	2/15/01	AEI	ND<1.0	ND<1.0	69	ND<1.0	ND<1.0
	8/29/01	AEI	ND<2.5	ND<2.5	98	ND<2.5	ND<2.5
	3/12/02	AEI	ND<2.5	ND<2.5	100	ND<2.5	ND<2.5
	9/27/02	AEI	ND<5.0	ND<5.0	80	ND<5.0	ND<5.0
	3/25/03	AEI	4.1	ND<2.5	48	ND<2.5	ND<2.5
	10/2/03	AEI	4.8	<0.5	36	1.1	ND<0.5
	10/17/06	AEI	ND<1.7	ND<1.7	73	ND<1.7	ND<RL
	5/3/07	AEI	ND<2.5	ND<2.5	86	ND<2.5	ND<RL
	10/17/07	AEI	ND<2.5	ND<2.5	130	ND<2.5	ND<RL
	4/1/08	AEI	ND<2.5	ND<2.5	130	ND<2.5	ND<RL
	10/2/08	AEI	ND<2.5	ND<2.5	110	ND<2.5	ND<RL
	4/2/09	AEI	ND<2.5	ND<2.5	180	ND<2.5	ND<RL
	10/2/09	AEI	ND<2.5	ND<2.5	140	ND<2.5	ND<RL
	4/9/10	AEI	ND<5.0	ND<5.0	160	ND<5.0	ND<RL
	10/22/10	AEI	ND<1.7	ND<1.7	93	ND<1.7	ND<RL
	5/27/11	AEI	ND<1.2	ND<1.2	53	ND<1.2	ND<RL
	10/19/11	AEI	ND<0.5	ND<0.5	30	ND<0.5	ND<RL
	4/30/12	AEI	ND<0.5	ND<0.5	3.4	ND<0.5	ND<RL
	10/29/12	AEI	ND<0.5	ND<0.5	14	ND<0.5	ND<RL
	04/26/13	AEI	ND<0.5	ND<0.5	6.9	ND<0.5	ND<RL
	10/11/13	AEI	ND<0.5	ND<0.5	18	ND<0.5	ND<RL
	04/16/14	AEI	ND<0.5	ND<0.5	13	ND<0.5	ND<RL
	10/14/14	AEI	ND<0.5	ND<0.5	25	ND<0.5	ND<RL
5/7/15	AEI	ND<0.5	ND<0.5	15	ND<0.5	ND<RL	
<b>10/26/15</b>	<b>AEI</b>	<b>ND&lt;2.5</b>	<b>ND&lt;2.5</b>	<b>110</b>	<b>ND&lt;2.5</b>	<b>ND&lt;RL</b>	
<b>FHS MW-10</b> <b>(deep)</b>	10/9/97	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NR
	1/29/99	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/5/99	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/10/99	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/20/00	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/8/00	AEI	NS	NS	NS	NS	NS
	2/15/01	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	AEI	NS	NS	NS	NS	NS
	3/12/02	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	AEI	NS	NS	NS	NS	NS
	3/25/03	AEI	1.7	ND<1.0	18	2.5	5.0**
	10/6/03	AEI	ND<0.5	ND<0.5	1.4	ND<0.5	1.0**
	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/2007 <sup>1</sup>	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/17/07	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/1/08	AEI	ND<0.5	ND<0.5	0.88	ND<0.5	ND<RL
	10/2/08	AEI	ND<0.5	ND<0.5	3.4	ND<0.5	1.4**
	4/2/09	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/2/09	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/9/10	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/22/10	AEI	NS	NS	NS	NS	NS
	5/27/11	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/19/11	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL <sup>8</sup>
	4/30/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/29/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
04/26/13	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
10/11/13	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
04/16/14	AEI	ND<0.5	ND<0.5	27	0.55	ND<RL	
10/14/14	AEI	ND<0.5	ND<0.5	25	ND<0.5	ND<RL	
05/07/15	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
<b>10/26/15</b>	<b>AEI</b>			<b>Well Inaccessible - Car</b>			

**Table 2**  
**Groundwater Sample Analytical Data**  
**10700 MacArthur Blvd., Oakland, California**

Well (aquifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L	
<b>FHS MW-11 (deep)</b>	9/29/97	PES	ND<0.5	ND<0.5	4	ND<0.5	NR	
	1/29/99	AEI	ND<0.5	ND<0.5	7	ND<0.5	ND<0.5	
	5/5/99	AEI	ND<0.5	ND<0.5	7.1	ND<0.5	ND<0.5	
	9/10/99	AEI	ND<0.5	ND<0.5	7.5	ND<0.5	ND<0.5	
	1/20/00	AEI	ND<0.5	ND<0.5	7.5	ND<0.5	ND<0.5	
	8/8/00	AEI	ND<0.5	ND<0.5	38	ND<0.5	ND<0.5	
	2/15/01	AEI	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	
	8/29/01	AEI	ND<0.5	ND<0.5	16	ND<0.5	ND<0.5	
	3/12/02	AEI	ND<0.5	ND<0.5	13	ND<0.5	0.77**	
	9/27/02	AEI	ND<1	ND<1	13	ND<1	6.4** 1.1***	
	3/25/03	AEI	0.78	ND<0.5	12	0.88	4.0** 1.0***	
	10/2/03			Well Inaccessible				
	10/17/06	AEI	ND<0.5	ND<0.5	20	ND<0.5	ND<RL	
	5/3/2007 <sup>1</sup>	AEI	ND<0.5	ND<0.5	25	1.1	ND<RL	
	10/17/07	AEI	ND<0.5	ND<0.5	31	0.71	ND<RL	
	4/1/08	AEI	ND<0.5	ND<0.5	26	0.61	ND<RL	
	10/2/08	AEI	ND<0.5	ND<0.5	31	0.74	ND<RL	
	4/2/09	AEI	ND<0.5	ND<0.5	32	0.71	ND<RL	
	10/5/09	AEI	ND<0.5	ND<0.5	32	0.70	ND<RL	
	4/9/10	AEI	ND<1.0	ND<1.0	32	ND<1.0	ND<RL	
	10/22/10	AEI	NS	NS	NS	NS	NS	
	5/27/11	AEI	ND<1.7	ND<1.7	63	1.9	NS	
	10/19/11	AEI	ND<1.0	ND<1.0	49	ND<1.0	ND<RL	
	4/30/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
	10/29/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
	04/26/13	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
	10/11/13	AEI	ND<0.5	ND<0.5	26	ND<0.5	ND<RL	
	4/16/2014	AEI	ND<0.5	ND<0.5	22	ND<0.5	ND<RL <sup>9</sup>	
	10/14/2014	AEI	ND<0.5	ND<0.5	17	ND<0.5	ND<RL <sup>10</sup>	
	5/7/2015	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL <sup>11</sup>	
	<b>10/26/2015</b>	<b>AEI</b>	<b>ND&lt;1.0</b>	<b>ND&lt;1.0</b>	<b>37</b>	<b>ND&lt;1.0</b>	<b>ND&lt;RL</b>	
	<b>MW-6 (deep)</b>	3/11/95	EMCON	ND<20	ND<0.5	1300	ND<20	NR
6/5/95		EMCON	ND<20	ND<20	2000	ND<20	NR	
8/29/95		EMCON	ND<20	ND<20	1300	ND<20	NR	
9/11/95		Augeus	NR	ND<50	2000	ND<50	NR	
11/16/95		EMCON	ND<20	ND<20	1300	ND<20	NR	
2/28/96		EMCON	ND<20	ND<20	960	ND<20	NR	
4/16/96		PES	10	10	1400	10	NR	
5/28/96		EMCON	ND<20	ND<20	970	ND<20	NR	
7/17/96		PES	ND<5	ND<5	590	ND<5	NR	
8/19/96		EMCON	ND<20	ND<20	820	ND<20	NR	
10/23/96		PES	ND<5	ND<5	680	ND<5	NR	
11/21/96		EMCON	ND<20	ND<20	680	ND<20	NR	
3/26/97		EMCON	ND<40	ND<40	830	ND<40	NR	
5/20/97		EMCON	ND<5	ND<5	270	ND<5	NR	
9/29/97		PES	ND<10	ND<10	670	ND<10	NR	
1/29/99		AEI	1.4	ND<1.3	49	3	ND<1.3	
5/5/99		AEI	19	ND<11	530	38	ND<11	
9/10/99		AEI	27	ND<12	560	53	ND<12	
1/20/00		AEI	18	ND<8.5	660	31	ND<8.5	
8/8/00		AEI	98	16	1700	170	ND<5	
2/15/01		AEI	64	ND<10	650	87	ND<10	
8/29/01		AEI	19	ND<5.0	550	38	ND<5.0	
3/12/02		AEI	61	ND<20	1200	99	ND<20	
9/27/02		AEI	ND<12	ND<12	300	27	ND<12	
3/25/03		AEI	2.6	ND<2.5	49	3.8	ND<2.5	
10/2/03		AEI	13	ND<5.0	340	21	ND<5.0	
10/17/06		AEI	16	ND<5.0	320	18	ND<RL	
5/3/07		AEI	0.92	ND<0.5	39	2.1	ND<RL	
10/17/07		AEI	10	ND<5.0	310	18	ND<RL	
4/1/08		AEI	6.8	ND<1.7	76	9.2	ND<RL	
10/2/08		AEI	21	ND<12	380	33	ND<RL	
4/2/09		AEI	17	ND<10	420	28	ND<RL	
10/2/09	AEI	22	ND<10	410	29	ND<RL		
4/9/10	AEI	5.5	ND<5.0	160	10	ND<RL		
10/25/10	AEI	26	ND<10	400	30	ND<RL		
5/27/11			Well Destroyed by ARCO; Case Closure at 10600 MacArthur Blvd.					



**Table 2**  
**Groundwater Sample Analytical Data**  
**10700 MacArthur Blvd., Oakland, California**

Well (aquifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L
MW-7 (shallow)	3/11/95	EMCON	NS	NS	NS	NS	NS
	6/5/95	EMCON	ND<10	ND<10	ND<10	ND<10	ND<10
	8/29/95	EMCON	ND<10	ND<10	ND<10	ND<10	ND<10
	9/11/95	Augeus	85	ND<50	-	ND<50	ND<50
	11/16/95	EMCON	ND<20	ND<20	ND<20	ND<20	ND<20
	2/28/96	EMCON	ND<10	ND<10	ND<10	ND<10	ND<10
	4/16/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/28/96	EMCON	ND<10	ND<10	ND<10	ND<10	ND<10
	7/17/96	PES	0.6	ND<0.5	ND<0.5	0.6	ND<0.5
	8/19/96	EMCON	ND<1	ND<1	ND<1	ND<1	ND<1
	10/23/96	PES	0.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/21/96	EMCON	ND<10	ND<10	ND<10	ND<10	ND<10
	3/26/97	EMCON	ND<20	ND<20	ND<20	ND<20	ND<20
	5/20/97	EMCON	ND<10	ND<10	ND<10	ND<10	ND<10
	9/29/97	PES	ND<10	ND<10	ND<10	ND<10	ND<10
	1/20/00	AEI	ND<6.5	ND<6.5	ND<6.5	ND<6.5	ND<6.5
	8/8/00	AEI	NS	NS	NS	NS	NS
	2/15/01	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	AEI	NS	NS	NS	NS	NS
	3/12/02	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	AEI	NS	NS	NS	NS	NS
	3/25/03	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/2/03	AEI	NS	NS	NS	NS	NS
	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL****
	5/3/07	AEI	NS	NS	NS	NS	NS
	10/17/07	AEI	ND<10	ND<10	ND<10	ND<10	ND<RL
	4/1/08	AEI	NS	NS	NS	NS	NS
10/2/08	AEI	ND<1.0	ND<1.0	2.2	ND<1.0	ND<RL	
4/2/09	AEI	NS	NS	NS	NS	NS	
10/2/09	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
4/9/10	AEI	NS	NS	NS	NS	NS	
10/22/10	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
5/27/11			Well Destroyed by ARCO; Case Closure at 10600 MacArthur Blvd.				
WGR MW-2 (Shallow)	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/07	AEI	NS	NS	NS	NS	NS
	10/17/07	AEI	NS	NS	NS	NS	NS
	4/1/08	AEI	NS	NS	NS	NS	NS
	10/2/08	AEI	NS	NS	NS	NS	NS
	4/2/09	AEI	NS	NS	NS	NS	NS
	10/2/09	AEI	NS	NS	NS	NS	NS
	4/9/10	AEI	NS	NS	NS	NS	NS
	10/22/10	AEI	NS	NS	NS	NS	NS
	5/27/11	AEI	NS	NS	NS	NS	NS
	10/19/11	AEI	NS	NS	NS	NS	NS
	4/30/12	AEI	NS	NS	NS	NS	NS
	4/26/13	AEI	NS	NS	NS	NS	NS
	10/11/13	AEI	NS	NS	NS	NS	NS
	04/16/14	AEI	NS	NS	NS	NS	NS
	10/14/14			Well Destroyed during construction activities			
WGR MW-3 (Shallow)	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/07	AEI	NS	NS	NS	NS	NS
	10/17/07	AEI	NS	NS	NS	NS	NS
	4/1/08	AEI	NS	NS	NS	NS	NS
	10/2/08	AEI	NS	NS	NS	NS	NS
	4/2/09	AEI	NS	NS	NS	NS	NS
	10/2/09	AEI	NS	NS	NS	NS	NS
	4/9/10	AEI	NS	NS	NS	NS	NS
	10/22/10	AEI	NS	NS	NS	NS	NS
	5/27/11			Well Destroyed by ARCO; Case Closure at 10600 MacArthur Blvd.			

**Table 2**  
**Groundwater Sample Analytical Data**  
**10700 MacArthur Blvd., Oakland, California**

Well (aquifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L	
WGR MW-4 (deep)	4/16/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	7/17/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	10/23/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/29/97	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	2/15/01	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	8/29/01	AEI	NS	NS	NS	NS	NS	
	3/12/02	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/27/02	AEI	NS	NS	NS	NS	NS	
	3/25/03	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	10/2/03	AEI	NS	NS	NS	NS	NS	
	10/17/06	AEI	ND<0.5	ND<0.5	0.62	ND<0.5	ND<RL	
	5/3/07	AEI	NS	NS	NS	NS	NS	
	10/17/07	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
	4/1/08	AEI	NS	NS	NS	NS	NS	
	10/2/08	AEI	ND<0.5	ND<0.5	0.55	ND<0.5	ND<RL	
	4/2/09	AEI	NS	NS	NS	NS	NS	
	10/2/09	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
	4/9/10	AEI	NS	NS	NS	NS	NS	
	10/22/10	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL	
	5/27/11	AEI	NS	NS	NS	NS	NS	
10/19/11	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL		
4/30/12	AEI	NS	NS	NS	NS	NS		
10/29/12	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL		
04/26/13	AEI	Well Destroyed During Onsite Construction Activities						

**Table 2 Notes:**

Please refer to the Laboratory Analytical Data for further detailed lab information including Reporting Limits and Dilution Factors

\*VHCs = All other chemicals by EPA method 601/8010 or 8260

\*\* Chloroform (trichloromethane)

\*\*\* Dibromochloromethane

\*\*\*\* Methylene Chloride

\*\*\*\*\* bromodichloromethane

cis 1,2-Dichloroethene (cis 1,2 DCE)

trans 1,2-Dichloroethene (trans 1,2 DCE)

<sup>1</sup> = Reported by laboratory without letters FHS as prefix

<sup>2</sup> = Vinyl Chloride detected at a concentration of 1.9 ug/L

<sup>3</sup> = Vinyl Chloride detected at a concentration of 2.0 ug/L

<sup>4</sup> = Vinyl Chloride detected at a concentration of 0.66 ug/L

<sup>5</sup> = Vinyl Chloride detected at a concentration of 4.0 ug/L

<sup>6</sup> = Vinyl Chloride detected at a concentration of 11 ug/L

<sup>7</sup> = Chloroform detected at a concentration of 0.69 ug/L

<sup>8</sup> = Chloroform detected at a concentration of 0.64 ug/L

<sup>9</sup> = Chloroform detected at a concentration of 1.2 ug/L

<sup>10</sup> = Chloroform detected at a concentration of 8.3 ug/L

<sup>11</sup> = Chloroform detected at a concentration of 0.76 ug/L

\* Available data from AMW-7 is presented although this well was covered during 1999 construction activities

RL = Reporting Limit

NS = Well not sampled

NR = Not Reported

µg/L = micrograms per liter (parts per billion)

Tetrachloroethene (PCE)

Trichloroethene (TCE)

## APPENDIX A

### GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: AMW-1**

Project Name:	Foothill Square	Date of Sampling:	10/26/2015
Job Number:	261829	Name of Sampler:	AA, JP, WH
Project Address:	10700 MacArthur Blvd., Oakland		

**MONITORING WELL DATA**

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK ▼		
Elevation of Top of Casing (feet above msl)	64.51		
Depth of Well	45.00		
Depth to Water (from top of casing)	25.29		
Water Elevation (feet above msl)	39.22		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	<b>9.5</b>		
Actual Volume Purged (gallons)	9.5		
Appearance of Purge Water	Cloudy		
Free Product Present?	na	Thickness (ft):	-

**GROUNDWATER SAMPLES**

Number of Samples/Container Size				3-VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
10:46	start purging						
10:51	3.15	19.38	6.70	1,485	0.91	112.6	
10:56	6.3	19.38	6.48	1,454	1.49	8.1	
11:24	9.45	19.46	7.07	1,496	5.95	92.6	
11:30	sample						

**COMMENTS (i.e., sample odor, well recharge time & percent, etc.)**


**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: AMW-6R**

Project Name:	Foothill Square	Date of Sampling:	10/26/2015
Job Number:	261829	Name of Sampler:	AA, JP, WH
Project Address:	10700 MacArthur Blvd., Oakland		

**MONITORING WELL DATA**

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK ▼		
Elevation of Top of Casing (feet above msl)	NA		
Depth of Well	23.00		
Depth to Water (from top of casing)	16.01		
Water Elevation (feet above msl)	NA		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	<b>3.4</b>		
Actual Volume Purged (gallons)	3.5		
Appearance of Purge Water			
Free Product Present?	na	Thickness (ft):	-

**GROUNDWATER SAMPLES**

Number of Samples/Container Size				3 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
10:55	start purge						
10:59	1.5	19.61	6.82	1,523	1.10	36.8	
11:04	2.5	19.40	6.85	1,523	1.11	52.8	
11:06	3.5	19.22	6.85	1,523	1.64	62.7	
11:08	sample						

**COMMENTS (i.e., sample odor, well recharge time & percent, etc.)**

Depth to water measurement is an estimation

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: AMW-8**

Project Name:	Foothill Square	Date of Sampling:	10/26/2015
Job Number:	261829	Name of Sampler:	AA, JP, WH
Project Address:	10700 MacArthur Blvd., Oakland		

**MONITORING WELL DATA**

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK ▼		
Elevation of Top of Casing (feet above msl)	64.55		
Depth of Well	45.00		
Depth to Water (from top of casing)	21.00		
Water Elevation (feet above msl)	43.55		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	11.5		
Actual Volume Purged (gallons)	12.0		
Appearance of Purge Water	Clear		
Free Product Present?	na	Thickness (ft):	-

**GROUNDWATER SAMPLES**

Number of Samples/Container Size				3 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
12:20	start purge						
12:25	4	20.18	7.46	382	2.73	67.3	
12:30	8	19.16	7.37	345	1.23	81.1	
12:35	12	19.06	7.38	345	1.07	81.8	
12:45	sample						

**COMMENTS (i.e., sample odor, well recharge time & percent, etc.)**


**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: AMW-9**

Project Name:	Foothill Square	Date of Sampling:	10/26/2015
Job Number:	261829	Name of Sampler:	AA, JP, WH
Project Address:	10700 MacArthur Blvd., Oakland		

**MONITORING WELL DATA**

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK <span style="float: right;">▼</span>		
Elevation of Top of Casing (feet above msl)	63.48		
Depth of Well	54.30		
Depth to Water (from top of casing)	26.70		
Water Elevation (feet above msl)	36.78		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	<b>13.2</b>		
Actual Volume Purged (gallons)	13.5		
Appearance of Purge Water	Clear		
Free Product Present?	na	Thickness (ft):	-

**GROUNDWATER SAMPLES**

Number of Samples/Container Size				3 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
11:40	start puge						
11:42	4.5	20.45	7.03	1,287	2.68	91.4	
11:49	9	21.26	6.81	1,876	0.71	93.5	
11:55	13.5	21.22	6.81	1,883	0.75	95.3	
11:57	sample						

**COMMENTS (i.e., sample odor, well recharge time & percent, etc.)**

--

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: FHS MW-10**

Project Name:	Foothill Square	Date of Sampling:	10/26/2015
Job Number:	261829	Name of Sampler:	AA, JP, WH
Project Address:	10700 MacArthur Blvd., Oakland		

**MONITORING WELL DATA**

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK ▼		
Elevation of Top of Casing (feet above msl)	52.34		
Depth of Well	51.94		
Depth to Water (from top of casing)	30.51		
Water Elevation (feet above msl)	21.83		
Well Volumes Purged	NA		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	NA		
Actual Volume Purged (gallons)	NA		
Appearance of Purge Water	NA		
Free Product Present?	n/a	Thickness (ft):	-

**GROUNDWATER SAMPLES**

Number of Samples/Container Size				NA			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
Unable to be sampled							

**COMMENTS (i.e., sample odor, well recharge time & percent, etc.)**

Car Parked over the well during entirety of sampling event.



**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: FHS MW-11**

Project Name:	Foothill Square	Date of Sampling:	10/26/2015
Job Number:	261829	Name of Sampler:	AA, JP, WH
Project Address:	10700 MacArthur Blvd., Oakland		

**MONITORING WELL DATA**

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK ▼		
Elevation of Top of Casing (feet above msl)	54.06		
Depth of Well	64.07		
Depth to Water (from top of casing)	32.57		
Water Elevation (feet above msl)	21.49		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	15.1		
Actual Volume Purged (gallons)	15.0		
Appearance of Purge Water	Clear		
Free Product Present?	na	Thickness (ft):	-

**GROUNDWATER SAMPLES**

Number of Samples/Container Size				3 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
10:10	start purge						
10:17	5	19.84	6.31	794	1.85	101.8	
10:21	10	19.48	6.37	795	1.21	104.8	
10:25	15	19.45	6.39	789	1.17	105.1	
10:30	sample						

**COMMENTS (i.e., sample odor, well recharge time & percent, etc.)**


## **APPENDIX B**

### **LABORATORY ANALYSES WITH CHAIN OF CUSTODY DOCUMENTATION**



# McC Campbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1510920

**Report Created for:** AEI Consultants

2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597

**Project Contact:** John Mark Pendleton

**Project P.O.:** 96475

**Project Name:** 261829; Foothill Square

**Project Received:** 10/26/2015

Analytical Report reviewed & approved for release on 11/03/2015 by:

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** AEI Consultants  
**Project:** 261829; Foothill Square  
**WorkOrder:** 1510920

### Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



# Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FHS MW-11	1510920-001A	Water	10/26/2015 10:25	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	1.0	2	10/31/2015 13:54
Bromochloromethane	ND	1.0	2	10/31/2015 13:54
Bromodichloromethane	ND	1.0	2	10/31/2015 13:54
Bromoform	ND	1.0	2	10/31/2015 13:54
Bromomethane	ND	1.0	2	10/31/2015 13:54
Carbon Tetrachloride	ND	1.0	2	10/31/2015 13:54
Chlorobenzene	ND	1.0	2	10/31/2015 13:54
Chloroethane	ND	1.0	2	10/31/2015 13:54
Chloroform	ND	1.0	2	10/31/2015 13:54
Chloromethane	ND	1.0	2	10/31/2015 13:54
2-Chlorotoluene	ND	1.0	2	10/31/2015 13:54
4-Chlorotoluene	ND	1.0	2	10/31/2015 13:54
Dibromochloromethane	ND	1.0	2	10/31/2015 13:54
1,2-Dibromo-3-chloropropane	ND	0.40	2	10/31/2015 13:54
1,2-Dibromoethane (EDB)	ND	1.0	2	10/31/2015 13:54
Dibromomethane	ND	1.0	2	10/31/2015 13:54
1,2-Dichlorobenzene	ND	1.0	2	10/31/2015 13:54
1,3-Dichlorobenzene	ND	1.0	2	10/31/2015 13:54
1,4-Dichlorobenzene	ND	1.0	2	10/31/2015 13:54
Dichlorodifluoromethane	ND	1.0	2	10/31/2015 13:54
1,1-Dichloroethane	ND	1.0	2	10/31/2015 13:54
1,2-Dichloroethane (1,2-DCA)	ND	1.0	2	10/31/2015 13:54
1,1-Dichloroethene	ND	1.0	2	10/31/2015 13:54
cis-1,2-Dichloroethene	ND	1.0	2	10/31/2015 13:54
trans-1,2-Dichloroethene	ND	1.0	2	10/31/2015 13:54
1,2-Dichloropropane	ND	1.0	2	10/31/2015 13:54
1,3-Dichloropropane	ND	1.0	2	10/31/2015 13:54
2,2-Dichloropropane	ND	1.0	2	10/31/2015 13:54
1,1-Dichloropropene	ND	1.0	2	10/31/2015 13:54
cis-1,3-Dichloropropene	ND	1.0	2	10/31/2015 13:54
trans-1,3-Dichloropropene	ND	1.0	2	10/31/2015 13:54
Freon 113	ND	1.0	2	10/31/2015 13:54
Hexachlorobutadiene	ND	1.0	2	10/31/2015 13:54
Hexachloroethane	ND	1.0	2	10/31/2015 13:54
Methylene chloride	ND	1.0	2	10/31/2015 13:54
1,1,1,2-Tetrachloroethane	ND	1.0	2	10/31/2015 13:54
1,1,2,2-Tetrachloroethane	ND	1.0	2	10/31/2015 13:54

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FHS MW-11	1510920-001A	Water	10/26/2015 10:25	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	37	1.0	2	10/31/2015 13:54
1,2,3-Trichlorobenzene	ND	1.0	2	10/31/2015 13:54
1,2,4-Trichlorobenzene	ND	1.0	2	10/31/2015 13:54
1,1,1-Trichloroethane	ND	1.0	2	10/31/2015 13:54
1,1,2-Trichloroethane	ND	1.0	2	10/31/2015 13:54
Trichloroethene	ND	1.0	2	10/31/2015 13:54
Trichlorofluoromethane	ND	1.0	2	10/31/2015 13:54
1,2,3-Trichloropropane	ND	1.0	2	10/31/2015 13:54
Vinyl Chloride	ND	1.0	2	10/31/2015 13:54
<b>Surrogates</b>	<b>REC (%)</b>	<b>Limits</b>		
Dibromofluoromethane	91	70-130		10/31/2015 13:54
Toluene-d8	98	70-130		10/31/2015 13:54
4-BFB	89	70-130		10/31/2015 13:54

**Analyst(s):** KBO



# Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-1	1510920-002A	Water	10/26/2015 11:30	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	0.50	1	10/30/2015 23:47
Bromochloromethane	ND	0.50	1	10/30/2015 23:47
Bromodichloromethane	ND	0.50	1	10/30/2015 23:47
Bromoform	ND	0.50	1	10/30/2015 23:47
Bromomethane	ND	0.50	1	10/30/2015 23:47
Carbon Tetrachloride	ND	0.50	1	10/30/2015 23:47
Chlorobenzene	ND	0.50	1	10/30/2015 23:47
Chloroethane	ND	0.50	1	10/30/2015 23:47
Chloroform	ND	0.50	1	10/30/2015 23:47
Chloromethane	ND	0.50	1	10/30/2015 23:47
2-Chlorotoluene	ND	0.50	1	10/30/2015 23:47
4-Chlorotoluene	ND	0.50	1	10/30/2015 23:47
Dibromochloromethane	ND	0.50	1	10/30/2015 23:47
1,2-Dibromo-3-chloropropane	ND	0.20	1	10/30/2015 23:47
1,2-Dibromoethane (EDB)	ND	0.50	1	10/30/2015 23:47
Dibromomethane	ND	0.50	1	10/30/2015 23:47
1,2-Dichlorobenzene	ND	0.50	1	10/30/2015 23:47
1,3-Dichlorobenzene	ND	0.50	1	10/30/2015 23:47
1,4-Dichlorobenzene	ND	0.50	1	10/30/2015 23:47
Dichlorodifluoromethane	ND	0.50	1	10/30/2015 23:47
1,1-Dichloroethane	ND	0.50	1	10/30/2015 23:47
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/30/2015 23:47
1,1-Dichloroethene	ND	0.50	1	10/30/2015 23:47
cis-1,2-Dichloroethene	ND	0.50	1	10/30/2015 23:47
trans-1,2-Dichloroethene	ND	0.50	1	10/30/2015 23:47
1,2-Dichloropropane	ND	0.50	1	10/30/2015 23:47
1,3-Dichloropropane	ND	0.50	1	10/30/2015 23:47
2,2-Dichloropropane	ND	0.50	1	10/30/2015 23:47
1,1-Dichloropropene	ND	0.50	1	10/30/2015 23:47
cis-1,3-Dichloropropene	ND	0.50	1	10/30/2015 23:47
trans-1,3-Dichloropropene	ND	0.50	1	10/30/2015 23:47
Freon 113	ND	0.50	1	10/30/2015 23:47
Hexachlorobutadiene	ND	0.50	1	10/30/2015 23:47
Hexachloroethane	ND	0.50	1	10/30/2015 23:47
Methylene chloride	ND	0.50	1	10/30/2015 23:47
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/30/2015 23:47
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/30/2015 23:47

(Cont.)



# Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-1	1510920-002A	Water	10/26/2015 11:30	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	2.2	0.50	1	10/30/2015 23:47
1,2,3-Trichlorobenzene	ND	0.50	1	10/30/2015 23:47
1,2,4-Trichlorobenzene	ND	0.50	1	10/30/2015 23:47
1,1,1-Trichloroethane	ND	0.50	1	10/30/2015 23:47
1,1,2-Trichloroethane	ND	0.50	1	10/30/2015 23:47
Trichloroethene	ND	0.50	1	10/30/2015 23:47
Trichlorofluoromethane	ND	0.50	1	10/30/2015 23:47
1,2,3-Trichloropropane	ND	0.50	1	10/30/2015 23:47
Vinyl Chloride	ND	0.50	1	10/30/2015 23:47
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	91	70-130		10/30/2015 23:47
Toluene-d8	97	70-130		10/30/2015 23:47
4-BFB	91	70-130		10/30/2015 23:47

Analyst(s): KBO





# Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-6R	1510920-003A	Water	10/26/2015 11:08	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	17	33	10/31/2015 14:33
Bromochloromethane	ND	17	33	10/31/2015 14:33
Bromodichloromethane	ND	17	33	10/31/2015 14:33
Bromoform	ND	17	33	10/31/2015 14:33
Bromomethane	ND	17	33	10/31/2015 14:33
Carbon Tetrachloride	ND	17	33	10/31/2015 14:33
Chlorobenzene	ND	17	33	10/31/2015 14:33
Chloroethane	ND	17	33	10/31/2015 14:33
Chloroform	ND	17	33	10/31/2015 14:33
Chloromethane	ND	17	33	10/31/2015 14:33
2-Chlorotoluene	ND	17	33	10/31/2015 14:33
4-Chlorotoluene	ND	17	33	10/31/2015 14:33
Dibromochloromethane	ND	17	33	10/31/2015 14:33
1,2-Dibromo-3-chloropropane	ND	6.7	33	10/31/2015 14:33
1,2-Dibromoethane (EDB)	ND	17	33	10/31/2015 14:33
Dibromomethane	ND	17	33	10/31/2015 14:33
1,2-Dichlorobenzene	ND	17	33	10/31/2015 14:33
1,3-Dichlorobenzene	ND	17	33	10/31/2015 14:33
1,4-Dichlorobenzene	ND	17	33	10/31/2015 14:33
Dichlorodifluoromethane	ND	17	33	10/31/2015 14:33
1,1-Dichloroethane	ND	17	33	10/31/2015 14:33
1,2-Dichloroethane (1,2-DCA)	ND	17	33	10/31/2015 14:33
1,1-Dichloroethene	ND	17	33	10/31/2015 14:33
cis-1,2-Dichloroethene	<b>110</b>	17	33	10/31/2015 14:33
trans-1,2-Dichloroethene	ND	17	33	10/31/2015 14:33
1,2-Dichloropropane	ND	17	33	10/31/2015 14:33
1,3-Dichloropropane	ND	17	33	10/31/2015 14:33
2,2-Dichloropropane	ND	17	33	10/31/2015 14:33
1,1-Dichloropropene	ND	17	33	10/31/2015 14:33
cis-1,3-Dichloropropene	ND	17	33	10/31/2015 14:33
trans-1,3-Dichloropropene	ND	17	33	10/31/2015 14:33
Freon 113	ND	17	33	10/31/2015 14:33
Hexachlorobutadiene	ND	17	33	10/31/2015 14:33
Hexachloroethane	ND	17	33	10/31/2015 14:33
Methylene chloride	ND	17	33	10/31/2015 14:33
1,1,1,2-Tetrachloroethane	ND	17	33	10/31/2015 14:33
1,1,2,2-Tetrachloroethane	ND	17	33	10/31/2015 14:33

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-6R	1510920-003A	Water	10/26/2015 11:08	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	590	17	33	10/31/2015 14:33
1,2,3-Trichlorobenzene	ND	17	33	10/31/2015 14:33
1,2,4-Trichlorobenzene	ND	17	33	10/31/2015 14:33
1,1,1-Trichloroethane	ND	17	33	10/31/2015 14:33
1,1,2-Trichloroethane	ND	17	33	10/31/2015 14:33
Trichloroethene	130	17	33	10/31/2015 14:33
Trichlorofluoromethane	ND	17	33	10/31/2015 14:33
1,2,3-Trichloropropane	ND	17	33	10/31/2015 14:33
Vinyl Chloride	ND	17	33	10/31/2015 14:33
<b>Surrogates</b>	<b>REC (%)</b>	<b>Limits</b>		
Dibromofluoromethane	90	70-130		10/31/2015 14:33
Toluene-d8	98	70-130		10/31/2015 14:33
4-BFB	89	70-130		10/31/2015 14:33

**Analyst(s):** KBO



# Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-9	1510920-004A	Water	10/26/2015 11:57	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	2.5	5	11/02/2015 13:55
Bromochloromethane	ND	2.5	5	11/02/2015 13:55
Bromodichloromethane	ND	2.5	5	11/02/2015 13:55
Bromoform	ND	2.5	5	11/02/2015 13:55
Bromomethane	ND	2.5	5	11/02/2015 13:55
Carbon Tetrachloride	ND	2.5	5	11/02/2015 13:55
Chlorobenzene	ND	2.5	5	11/02/2015 13:55
Chloroethane	ND	2.5	5	11/02/2015 13:55
Chloroform	ND	2.5	5	11/02/2015 13:55
Chloromethane	ND	2.5	5	11/02/2015 13:55
2-Chlorotoluene	ND	2.5	5	11/02/2015 13:55
4-Chlorotoluene	ND	2.5	5	11/02/2015 13:55
Dibromochloromethane	ND	2.5	5	11/02/2015 13:55
1,2-Dibromo-3-chloropropane	ND	1.0	5	11/02/2015 13:55
1,2-Dibromoethane (EDB)	ND	2.5	5	11/02/2015 13:55
Dibromomethane	ND	2.5	5	11/02/2015 13:55
1,2-Dichlorobenzene	ND	2.5	5	11/02/2015 13:55
1,3-Dichlorobenzene	ND	2.5	5	11/02/2015 13:55
1,4-Dichlorobenzene	ND	2.5	5	11/02/2015 13:55
Dichlorodifluoromethane	ND	2.5	5	11/02/2015 13:55
1,1-Dichloroethane	ND	2.5	5	11/02/2015 13:55
1,2-Dichloroethane (1,2-DCA)	ND	2.5	5	11/02/2015 13:55
1,1-Dichloroethene	ND	2.5	5	11/02/2015 13:55
cis-1,2-Dichloroethene	ND	2.5	5	11/02/2015 13:55
trans-1,2-Dichloroethene	ND	2.5	5	11/02/2015 13:55
1,2-Dichloropropane	ND	2.5	5	11/02/2015 13:55
1,3-Dichloropropane	ND	2.5	5	11/02/2015 13:55
2,2-Dichloropropane	ND	2.5	5	11/02/2015 13:55
1,1-Dichloropropene	ND	2.5	5	11/02/2015 13:55
cis-1,3-Dichloropropene	ND	2.5	5	11/02/2015 13:55
trans-1,3-Dichloropropene	ND	2.5	5	11/02/2015 13:55
Freon 113	ND	2.5	5	11/02/2015 13:55
Hexachlorobutadiene	ND	2.5	5	11/02/2015 13:55
Hexachloroethane	ND	2.5	5	11/02/2015 13:55
Methylene chloride	ND	2.5	5	11/02/2015 13:55
1,1,1,2-Tetrachloroethane	ND	2.5	5	11/02/2015 13:55
1,1,2,2-Tetrachloroethane	ND	2.5	5	11/02/2015 13:55

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## Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-9	1510920-004A	Water	10/26/2015 11:57	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	110	2.5	5	11/02/2015 13:55
1,2,3-Trichlorobenzene	ND	2.5	5	11/02/2015 13:55
1,2,4-Trichlorobenzene	ND	2.5	5	11/02/2015 13:55
1,1,1-Trichloroethane	ND	2.5	5	11/02/2015 13:55
1,1,2-Trichloroethane	ND	2.5	5	11/02/2015 13:55
Trichloroethene	ND	2.5	5	11/02/2015 13:55
Trichlorofluoromethane	ND	2.5	5	11/02/2015 13:55
1,2,3-Trichloropropane	ND	2.5	5	11/02/2015 13:55
Vinyl Chloride	ND	2.5	5	11/02/2015 13:55
<b>Surrogates</b>	<b>REC (%)</b>	<b>Limits</b>		
Dibromofluoromethane	91	70-130		11/02/2015 13:55
Toluene-d8	97	70-130		11/02/2015 13:55
4-BFB	85	70-130		11/02/2015 13:55

**Analyst(s):** AK



# Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

## Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-8	1510920-005A	Water	10/26/2015 12:45	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	0.50	1	10/31/2015 01:43
Bromochloromethane	ND	0.50	1	10/31/2015 01:43
Bromodichloromethane	ND	0.50	1	10/31/2015 01:43
Bromoform	ND	0.50	1	10/31/2015 01:43
Bromomethane	ND	0.50	1	10/31/2015 01:43
Carbon Tetrachloride	ND	0.50	1	10/31/2015 01:43
Chlorobenzene	ND	0.50	1	10/31/2015 01:43
Chloroethane	ND	0.50	1	10/31/2015 01:43
Chloroform	ND	0.50	1	10/31/2015 01:43
Chloromethane	ND	0.50	1	10/31/2015 01:43
2-Chlorotoluene	ND	0.50	1	10/31/2015 01:43
4-Chlorotoluene	ND	0.50	1	10/31/2015 01:43
Dibromochloromethane	ND	0.50	1	10/31/2015 01:43
1,2-Dibromo-3-chloropropane	ND	0.20	1	10/31/2015 01:43
1,2-Dibromoethane (EDB)	ND	0.50	1	10/31/2015 01:43
Dibromomethane	ND	0.50	1	10/31/2015 01:43
1,2-Dichlorobenzene	ND	0.50	1	10/31/2015 01:43
1,3-Dichlorobenzene	ND	0.50	1	10/31/2015 01:43
1,4-Dichlorobenzene	ND	0.50	1	10/31/2015 01:43
Dichlorodifluoromethane	ND	0.50	1	10/31/2015 01:43
1,1-Dichloroethane	ND	0.50	1	10/31/2015 01:43
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	10/31/2015 01:43
1,1-Dichloroethene	ND	0.50	1	10/31/2015 01:43
cis-1,2-Dichloroethene	ND	0.50	1	10/31/2015 01:43
trans-1,2-Dichloroethene	ND	0.50	1	10/31/2015 01:43
1,2-Dichloropropane	ND	0.50	1	10/31/2015 01:43
1,3-Dichloropropane	ND	0.50	1	10/31/2015 01:43
2,2-Dichloropropane	ND	0.50	1	10/31/2015 01:43
1,1-Dichloropropene	ND	0.50	1	10/31/2015 01:43
cis-1,3-Dichloropropene	ND	0.50	1	10/31/2015 01:43
trans-1,3-Dichloropropene	ND	0.50	1	10/31/2015 01:43
Freon 113	ND	0.50	1	10/31/2015 01:43
Hexachlorobutadiene	ND	0.50	1	10/31/2015 01:43
Hexachloroethane	ND	0.50	1	10/31/2015 01:43
Methylene chloride	ND	0.50	1	10/31/2015 01:43
1,1,1,2-Tetrachloroethane	ND	0.50	1	10/31/2015 01:43
1,1,2,2-Tetrachloroethane	ND	0.50	1	10/31/2015 01:43

(Cont.)



## Analytical Report

**Client:** AEI Consultants  
**Date Received:** 10/26/15 18:55  
**Date Prepared:** 10/30/15-11/2/15  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-8	1510920-005A	Water	10/26/2015 12:45	GC28	112283

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	3.1	0.50	1	10/31/2015 01:43
1,2,3-Trichlorobenzene	ND	0.50	1	10/31/2015 01:43
1,2,4-Trichlorobenzene	ND	0.50	1	10/31/2015 01:43
1,1,1-Trichloroethane	ND	0.50	1	10/31/2015 01:43
1,1,2-Trichloroethane	ND	0.50	1	10/31/2015 01:43
Trichloroethene	ND	0.50	1	10/31/2015 01:43
Trichlorofluoromethane	ND	0.50	1	10/31/2015 01:43
1,2,3-Trichloropropane	ND	0.50	1	10/31/2015 01:43
Vinyl Chloride	ND	0.50	1	10/31/2015 01:43
<b>Surrogates</b>	<b>REC (%)</b>	<b>Limits</b>		
Dibromofluoromethane	91	70-130		10/31/2015 01:43
Toluene-d8	96	70-130		10/31/2015 01:43
4-BFB	87	70-130		10/31/2015 01:43

**Analyst(s):** KBO



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 10/30/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**BatchID:** 112283  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112283  
 1510839-006BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.50	-	-	-	-
Benzene	ND	-	0.50	-	-	-	-
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	2.0	-	-	-	-
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.92	0.50	10	-	99	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.21	0.50	10	-	92	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.97	0.50	10	-	100	66-125
1,1-Dichloroethene	ND	9.37	0.50	10	-	94	47-149
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-

(Cont.)



## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 10/30/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**BatchID:** 112283  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112283  
 1510839-006BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.50	-	-	-	-
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.50	-	-	-	-
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.50	-	-	-	-
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	-	0.50	-	-	-	-
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	9.34	0.50	10	-	93	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)





## Quality Control Report

**Client:** AEI Consultants  
**Date Prepared:** 10/30/15  
**Date Analyzed:** 10/30/15  
**Instrument:** GC28  
**Matrix:** Water  
**Project:** 261829; Foothill Square

**WorkOrder:** 1510920  
**BatchID:** 112283  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-112283  
 1510839-006BMS/MSD

### QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
<b>Surrogate Recovery</b>							
Dibromofluoromethane	22.4	22.8		25	90	91	70-130
Toluene-d8	24.5	24.3		25	98	97	70-130
4-BFB	2.36	2.43		2.5	94	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chlorobenzene	9.13	9.37	10	ND	91	94	77-120	2.57	20
1,2-Dibromoethane (EDB)	8.40	8.60	10	ND	84	86	76-135	2.43	20
1,2-Dichloroethane (1,2-DCA)	9.00	9.40	10	ND	90	94	73-139	4.40	20
1,1-Dichloroethene	8.61	8.82	10	ND	86	88	59-140	2.40	20
Trichloroethene	8.66	8.98	10	ND	87	90	64-132	3.61	20
<b>Surrogate Recovery</b>									
Dibromofluoromethane	22.4	22.6	25		90	90	70-130	0	20
Toluene-d8	24.6	24.2	25		98	97	70-130	1.58	20
4-BFB	2.38	2.38	2.5		95	95	70-130	0	20



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1510920

ClientCode: AEL

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQulS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

John Mark Pendleton  
AEI Consultants  
2500 Camino Diablo, Ste.#200  
Walnut Creek, CA 94597  
(925) 283-6000    FAX: (925) 944-2895

Email: jpendleton@aeiconsultants.com  
cc/3rd Party:  
PO: 96475  
ProjectNo: 261829; Foothill Square

**Bill to:**

Accounts Payable  
AEI Consultants  
2500 Camino Diablo, Ste. #200  
Walnut Creek, CA 94597  
AccountsPayable@AEIConsultants.com

**Requested TAT: 5 days;**

**Date Received: 10/26/2015**

**Date Printed: 10/26/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1510920-001	FHS MW-11	Water	10/26/2015 10:25	<input type="checkbox"/>	A												
1510920-002	AMW-1	Water	10/26/2015 11:30	<input type="checkbox"/>	A												
1510920-003	AMW-6R	Water	10/26/2015 11:08	<input type="checkbox"/>	A												
1510920-004	AMW-9	Water	10/26/2015 11:57	<input type="checkbox"/>	A												
1510920-005	AMW-8	Water	10/26/2015 12:45	<input type="checkbox"/>	A												

**Test Legend:**

1	8010BMS_W	2		3		4	
5		6		7		8	
9		10		11		12	

**Prepared by: Lindsay Diesta**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



## WORK ORDER SUMMARY

**Client Name:** AEI CONSULTANTS

**QC Level:** LEVEL 2

**Work Order:** 1510920

**Project:** 261829; Foothill Square

**Client Contact:** John Mark Pendleton

**Date Received:** 10/26/2015

**Comments:**

**Contact's Email:** jpendleton@aeiconsultants.com

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1510920-001A	FHS MW-11	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	<input type="checkbox"/>	10/26/2015 10:25	5 days	Present	<input type="checkbox"/>	
1510920-002A	AMW-1	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	<input type="checkbox"/>	10/26/2015 11:30	5 days	Present	<input type="checkbox"/>	
1510920-003A	AMW-6R	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	<input type="checkbox"/>	10/26/2015 11:08	5 days	Present	<input type="checkbox"/>	
1510920-004A	AMW-9	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	<input type="checkbox"/>	10/26/2015 11:57	5 days	Present	<input type="checkbox"/>	
1510920-005A	AMW-8	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	<input type="checkbox"/>	10/26/2015 12:45	5 days	Present	<input type="checkbox"/>	

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



# McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701  
www.mcccampbell.com / main@mcccampbell.com  
Telephone: (877) 252-9262 / Fax: (925) 252-9269

1510920

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH  1 DAY  2 DAY  3 DAY  5 DAY   
GeoTracker EDF  PDF  EDD  Write On (DW)  EQUIS  10 DAY   
Effluent Sample Requiring "J" flag  UST Clean Up Fund Project ; Claim # \_\_\_\_\_

Report To: John Mark Pendleton Bill To: same  
Company: AEI Consultants  
2500 Camino Diablo  
Walnut Creek, CA 94597 E-Mail: jpendleton@aeiconsultants.com  
Tele: (925) 262-7582 Fax: (925) 746-6099  
Project #: 261829 Project Name: Foothill Square  
Project Location 10700 Macarthur blvd, Oakland, CA Purchase Order# 96475  
Sampler Signature: *[Signature]*

### Analysis Request

SAMPLE ID	Date		# Containers	MATRIX										METHOD PRESERVED		Halogenated Volatile Organic Compounds by EPA method 8260
		Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO <sub>3</sub>	Other		
FHS MW-11	10/26/15	1025	3	X											X	X
AMW-1		1130														
AMW-6R		1108														
AMW-9		1157														
AMW-8		1245														

\*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <i>[Signature]</i>	Date: 10/26/15	Time: 1430	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 10/26/15	Time: 1655	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:

ICE# 5-1  
 GOOD CONDITION \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_  
 APPROPRIATE CONTAINERS \_\_\_\_\_  
 PRESERVED IN LAB \_\_\_\_\_

VOAS O&G METALS OTHER HAZARDOUS:  
 PRESERVATION \_\_\_\_\_ pH<2 \_\_\_\_\_



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **10/26/2015 6:55:42 PM**  
 Project Name: **261829; Foothill Square** LogIn Reviewed by: **Lindsay Diesta**  
 WorkOrder No: **1510920** Matrix: Water Carrier: Bernie Cummins (MAI Courier)

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Sample/Temp Blank temperature Temp: 5.7°C NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  NA   
 Sample labels checked for correct preservation? Yes  No   
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes  No  NA   
 Samples Received on Ice? Yes  No

(Ice Type: WET ICE )

**UCMR3 Samples:**

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes  No  NA   
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes  No  NA

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments: