May 2, 2017

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

Subject: **Submittal Acknowledgement Statement**
Groundwater Monitoring Report – First Semester 2017
Former Young's Cleaners
10700 MacArthur Boulevard
Oakland, California 94605
AEI Project No. [Subject]
Toxics Case No. RO0002580

Dear Ms. Soo:

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the State Water Resources Control Board's Geotracker website.

If you have any questions or need additional information, please do not hesitate to call the undersigned at (323) 336-6808, or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

WAC Enterprises FHS, LLC
8245 W. 4th Street,
Los Angeles, CA 90048

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

May 1, 2017

Groundwater Monitoring Report – First Semester 2017

Property Identification:
Former Young's Cleaners
10700 MacArthur Boulevard
Oakland, California 94605

AEI Project No. 365948
Toxics Case No. RO0002580

Prepared for:
WAC Enterprises FHS, LLC
Attn: Jonathan Kasirer
8245 W. 4th Street
Los Angeles, California 90048

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

AEI Consultants
Environmental & Engineering Services
2500 Camino Diablo, Walnut Creek, CA 94597
Tel: 925.746.6000 Fax: 925.746.6099

May 1, 2017

Ms. Kit Soo
Alameda County Department of Environmental Health
1131 Harbor Parkway
Alameda, California 94502

Subject: **Groundwater Monitoring Report – First Semester 2017**
Former Young's Cleaners
10700 MacArthur Boulevard
Oakland, California 94605
AEI Project No. 365948
Toxics Case No. RO0002580

Dear Ms. Soo:

On behalf of WAC Enterprises FHS, LLC, AEI Consultants (AEI) has prepared this groundwater monitoring report presenting the first semester 2017 groundwater monitoring results for the former Young's Cleaners site located at 10700 MacArthur Boulevard in Oakland, California ("the Site"). This report was prepared in accordance with the requirements of the Alameda County Health Department of Environmental Health (DEH). This report summarizes the activities and results of the semi-annual groundwater monitoring activities conducted on April 13, 2017.

Background

The Site is approximately 13.5 acres in size and is currently developed with the Foothill Square Shopping Center. Figure 1 presents the Site location and vicinity. The shopping center consists of eight buildings, totaling approximately 183,000 square feet. The area of concern is the former Young's Cleaners, located on the north side of the property, which currently operates as Shoe Palace, a retail shoe store. Figure 2 presents an extended Site plan, showing the entire shopping center and Figure 3 presents the Site plan.

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.

Remedial and mitigation actions completed at the Site consist of excavation of impacted soils in 1996 and the installation and operation of a sub-slab depressurization system (SSDS) and a soil vapor extraction and treatment system (SVET). Routine Groundwater monitoring has been conducted at the Site since 1999.

Summary of Groundwater Monitoring Activities

On April 13, 2017, AEI gauged the groundwater levels in each of the accessible active groundwater monitoring wells at the Site: AMW-1, AMW-6R, AMW-8, AMW-9, and FHS MW-10 as shown on Table 1. FHS MW-11 was inaccessible during the groundwater sampling event due to a parked car. After gauging, groundwater samples were collected from each of the accessible active groundwater monitoring wells in accordance with the approved sampling schedule. Each well was first opened and water levels allowed to equilibrate with atmospheric pressure. The depth to water from the top of the well casing was measured with an electric water level indicator and recorded. Groundwater samples were collected by first purging the well of at least three well casing volumes using a battery-powered submersible pump.

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 at least 90% of their original standing water volume. Following recharge, a groundwater sample was collected. Groundwater samples were collected from each well using a submersible pump or disposable bailers. Groundwater Sample Field data sheets are included in Appendix A.

Upon collection, groundwater samples were transferred into three 40-milliter 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 inside an ice-chilled cooler for transport. The samples were transported under chain-of-custody documentation to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644). Each groundwater sample collected was analyzed for volatile organic compounds (VOCs) using US EPA Testing Method 8260B.

Groundwater Elevations

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, FHS MW-10 and FHS MW-11) are generally screened at depths between approximately 21 and 43.5 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 (AMW-1 and AMW-6R) increased by 6.46 feet and 3.56 feet respectively with depths to groundwater of 18.60 and 11.93 feet bgs respectively. Groundwater elevations in the deeper water-bearing zone (AMW-8, AMW-9, and FHS MW-10) also increased, with observed increases of 6.99 feet, 5.74 feet, and 12.73 feet respectively. The depth to groundwater in the deeper water-bearing zone wells ranged from 13.10 feet bgs to 20.16 feet bgs.

With only two wells completed within the shallow water-bearing zone, insufficient data is available to generate a potentiometric surface contour map for the shallow zone. Historically, shallow zone potentiometric surface sloped towards the west. Figure 3 presents the potentiometric surface contour map for the deeper water-bearing zone. The groundwater potentiometric surface of the deeper water-bearing zone is sloped generally to the south at a gradient of approximately 0.044 feet per foot (ft/ft).

Groundwater Quality

Table 2 presents a summary of recent and historical groundwater concentration of select analytes, including tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene (cis-1,2-DCE and trans-1,2-DCE). Figure 4 presents the posted analyte concentrations in groundwater. The data can be summarized as follows:

- PCE was detected in three of the five groundwater samples collected and analyzed, observed at concentrations of 860 micrograms per liter (µg/L), 75 µg/L, and 3.4 µg/L, in the samples collected from wells AMW-6R, AMW-9, and AMW-8, respectively.
- TCE and cis-1,2-DCE were detected in one of the five groundwater samples collected and analyzed, detected at concentrations of 150 µg/L and 94 µg/L in the sample collected from MAW-6R, respectively.

Figures 6 through 9 present hydrographs of PCE for monitoring wells AMW-1, AMW-6/6R, AMW-8, and AMW-9. The analyte concentrations observed in groundwater samples collected and analyzed are generally consistent within historical ranges. Certified analytical laboratory reports and chain of custody documentation are provided in Appendix B.

Closing

AEI appreciates working with the DEH to characterize this Site and continue to develop a path towards closure. If you have any questions regarding this report, please do not hesitate to contact one of us at (925) 746-6000.

Sincerely,
AEI Consultants

Jonathan E. Sanders
Project Engineer

Trent A. Weise, P.E.
Vice President

Enclosures:

Figures

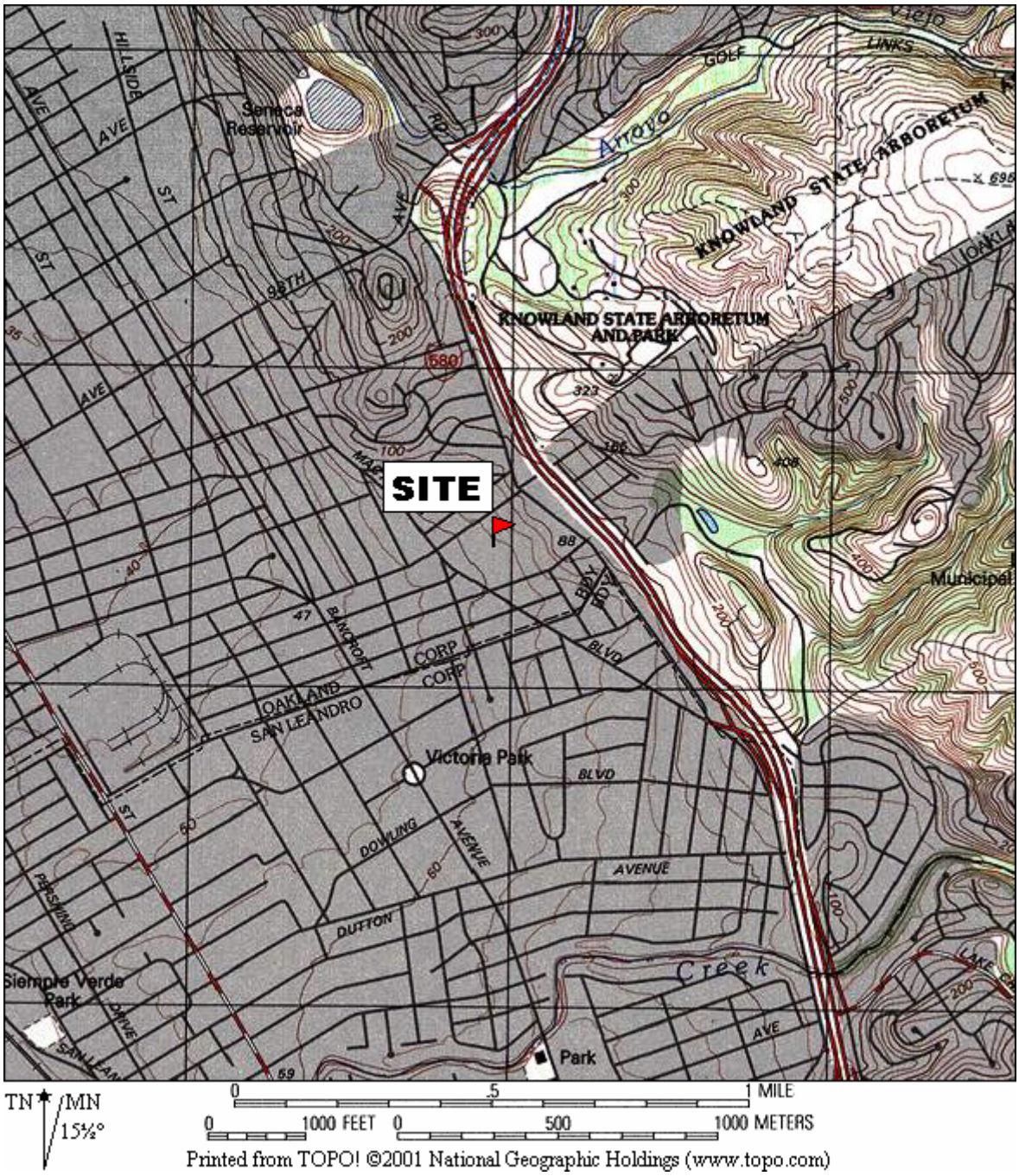
Figure 1: Site Location Map
Figure 2: Extended Site Plan
Figure 3: Site Plan
Figure 4: Potentiometric Surface Map – Deep Wells (4/13/2017)
Figure 5: Groundwater Analytical Data (4/13/2017)
Figure 6: PCE and GW Hydrograph AMW-1
Figure 7: PCE and GW Hydrograph AMW-6/6R
Figure 8: PCE and GW Hydrograph AMW-8
Figure 9: PCE and GW Hydrograph AMW-9

Tables

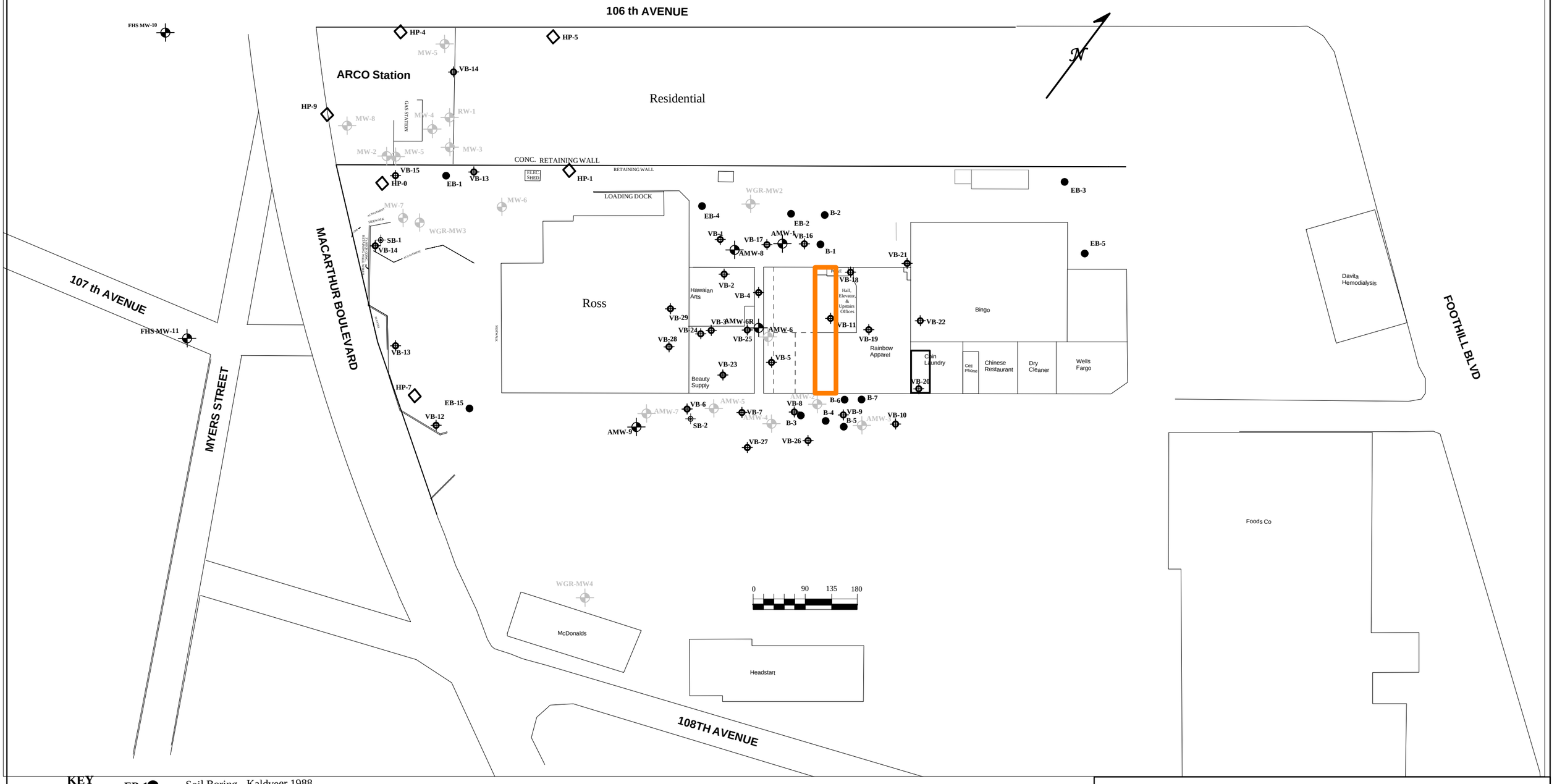
Table 1: Groundwater Level Data
Table 2: Groundwater Sample Analytical Data Summary

Appendix A: Groundwater Monitoring Well Field Sampling Forms
Appendix B: Laboratory Analyses with Chain of Custody Documentation

FIGURES



AEI CONSULTANTS 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597	
SITE LOCATION MAP	
10700 MACARTHUR BLVD OAKLAND, CALIFORNIA	**FIGURE 1** PROJECT NO. 365948



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
- MW4 — Abandoned Groundwater Monitoring Well
- Soil Boring - AEI 2006
- Former Dry Cleaner Location
- Soil Vapor Sample

Drafted 6/30/05 - RFF on Dirk Slooten base
Revised 05/15 by J.SMITH

AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK, CA

EXTENDED SITE PLAN

10700 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

FIGURE 2
PROJECT NO. 365948

106 th AVENUE

ARCO Station

Residential

Ross

MACARTHUR BOULEVARD

MYERS STREET

HP-4 HP-5 HP-9 HP-0 HP-1 HP-7

MW-5 MW-8 MW-4 MW-2 MW-3 MW-6 MW-7 WGR-MW2 WGR-MW3 AMW-1 AMW-2 AMW-3 AMW-4 AMW-5 AMW-6 AMW-6R AMW-7 AMW-8 AMW-9

RW-1

VB-14 VB-15 VB-13 VB-12 VB-1 VB-2 VB-3 VB-4 VB-5 VB-6 VB-7 VB-8 VB-9 VB-10 VB-11 VB-16 VB-17 VB-18 VB-19 VB-20 VB-21 VB-22 VB-23 VB-24 VB-25 VB-26 VB-27 VB-28 VB-29

EB-1 EB-2 EB-3 EB-4 EB-5 EB-15

B-1 B-2 B-3 B-4 B-5 B-6 B-7

SB-1 SB-2

GAS STATION

CONC. RETAINING WALL

RETAINING WALL

ELEC. SHED

LOADING DOCK

OHE

Utility Trench
4-5' deep

Utility Trench
5-7' deep

Hawaian Arts

Beauty Supply

Former Young's Dry Cleaners

Hall, Elevator, & Upstairs Offices

Rainbow Apparel

Bingo

Coin Laundry

Cell Phone

Chinese Restaurant

Dry Cleaner

Wells Fargo

SIDEWALK

AC PAVEMENT

SDMH

0 60 90 120

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

MW4 Abandoned 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

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 05/15 by J.SMITH

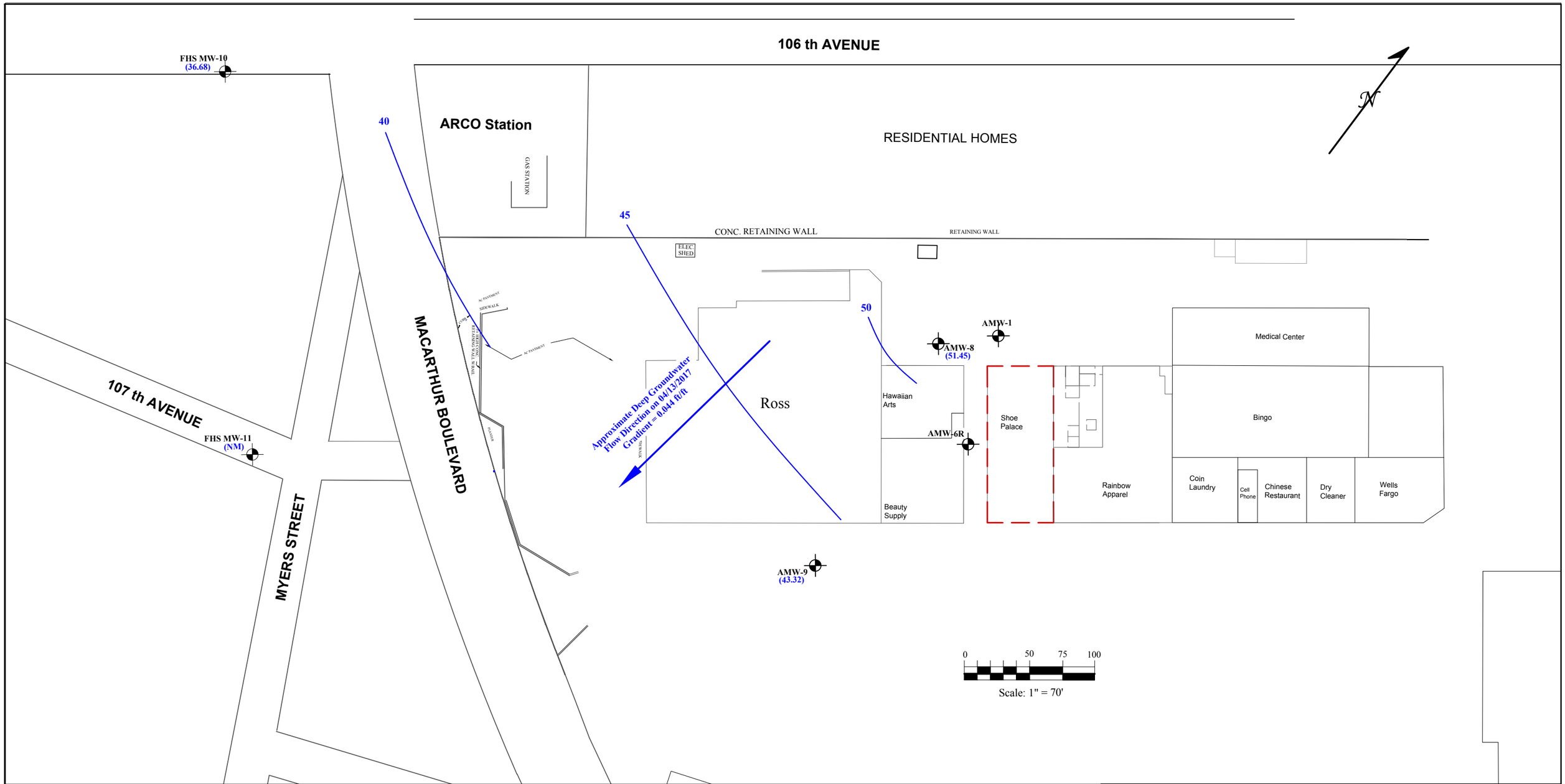
AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK, CA

SITE PLAN

10700 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

FIGURE 3
PROJECT NO. 365948



LEGEND

- Groundwater Monitoring Well
- (37.58) Groundwater Elevation (NAVD88)
- Potentiometric Surface Contour (NAVD88)
- (NM) Not Measured

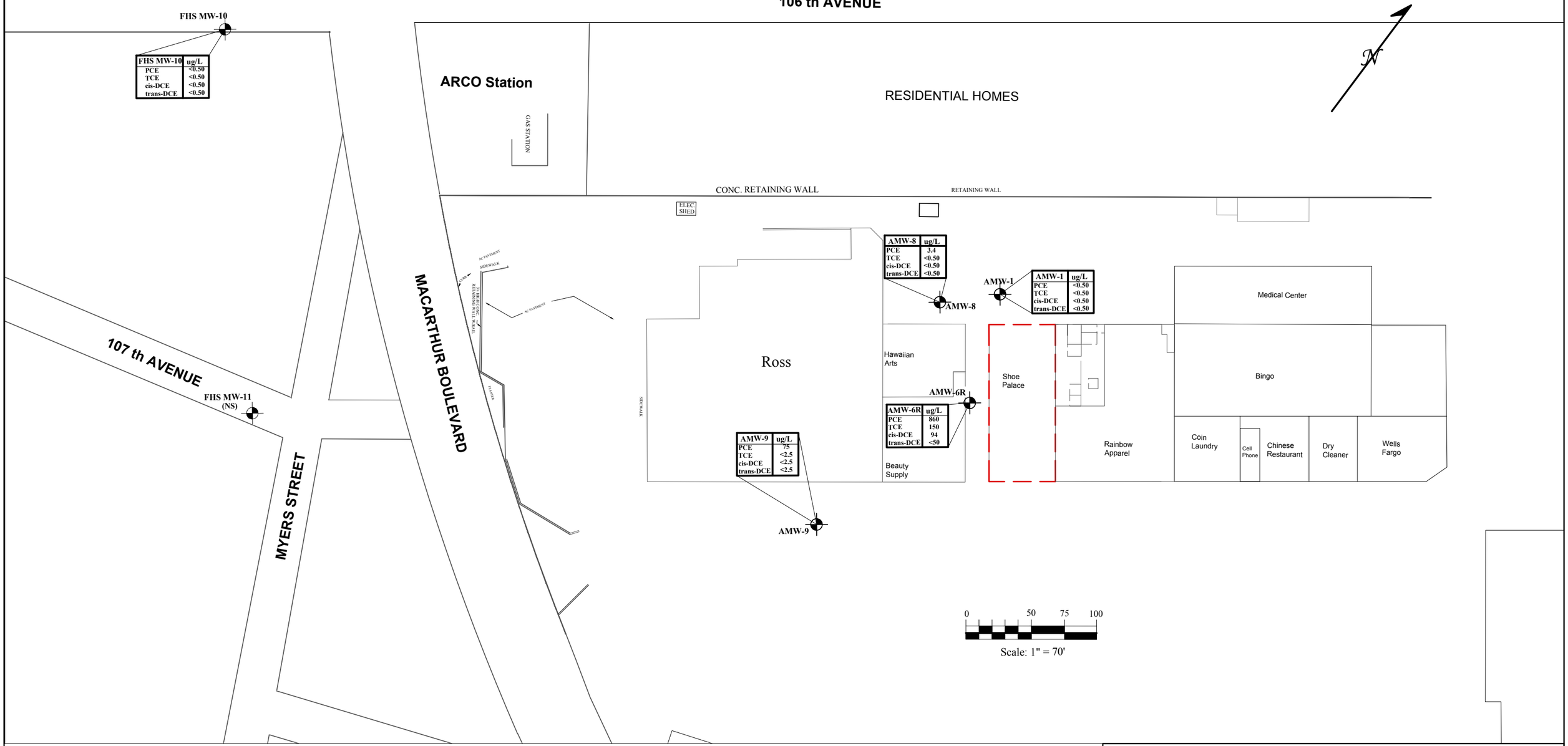
AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK, CA

Potentiometric Surface Map - Deep Wells (04/13/2017)

10700 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

FIGURE 4
PROJECT NO. 365948



LEGEND

- Groundwater Monitoring Well
- ug/L micrograms per liter
- (NS) Not Sampled

AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK, CA

Groundwater Sample
Analytical Data (04/13/2017)

10700 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

FIGURE 5
PROJECT NO. 365948

FIGURE 6

PCE and GW Hydrograph

AMW-1

Note:
TOC - 64.51

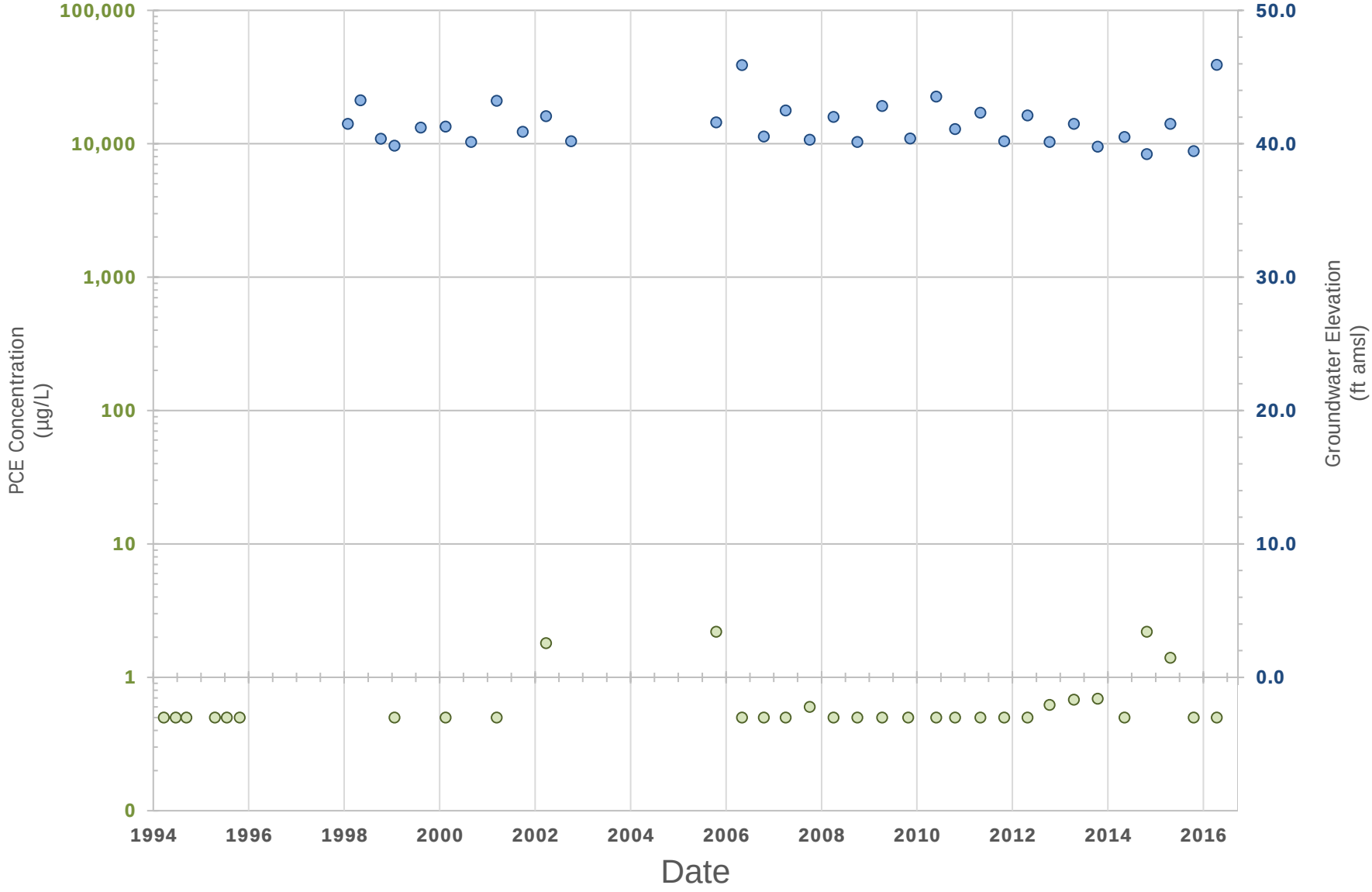


FIGURE 7

PCE and GW Hydrograph

AMW-6/6R

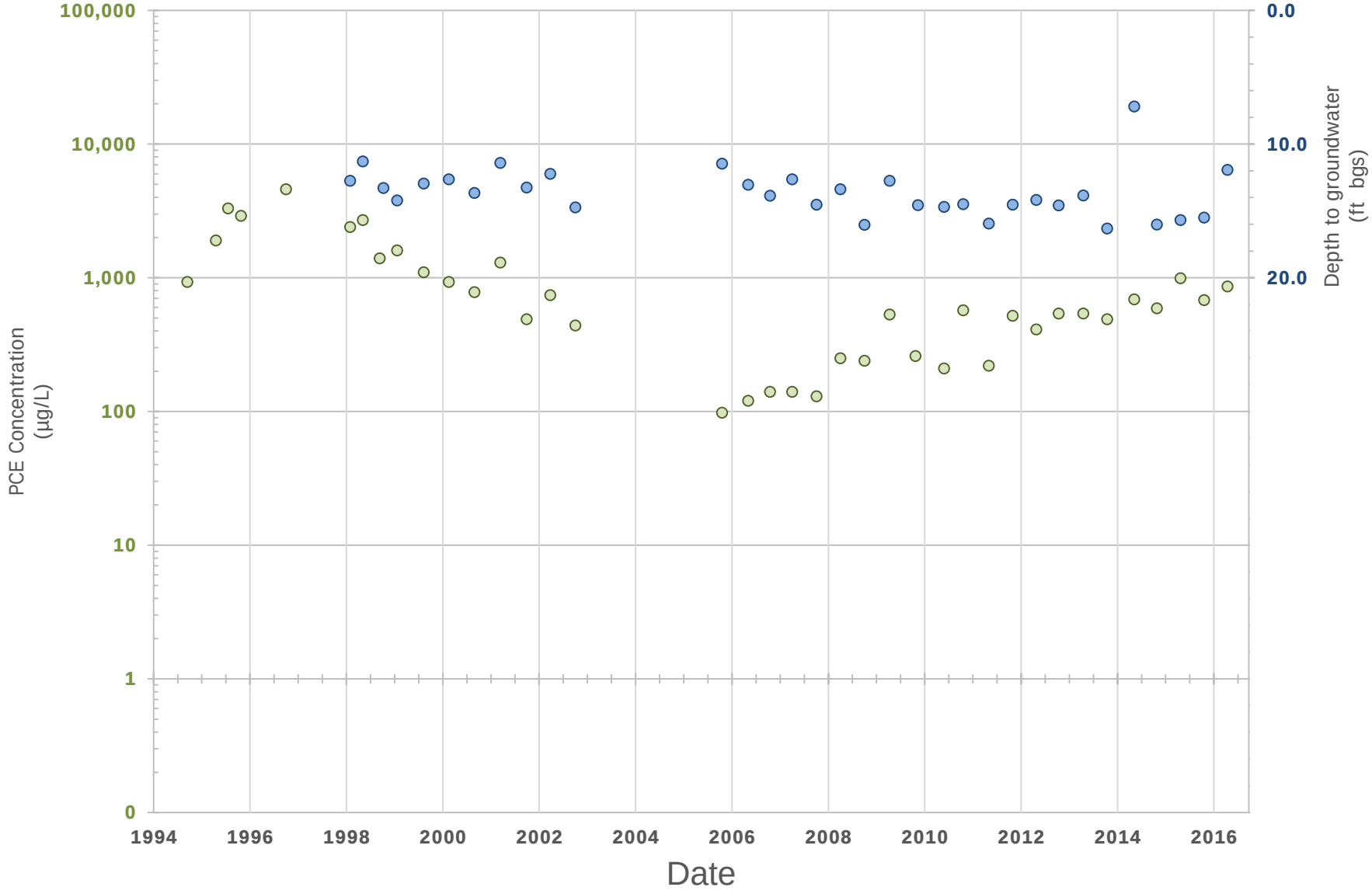


FIGURE 8

PCE and GW Hydrograph

AMW-8

Note:
TOC - 64.55

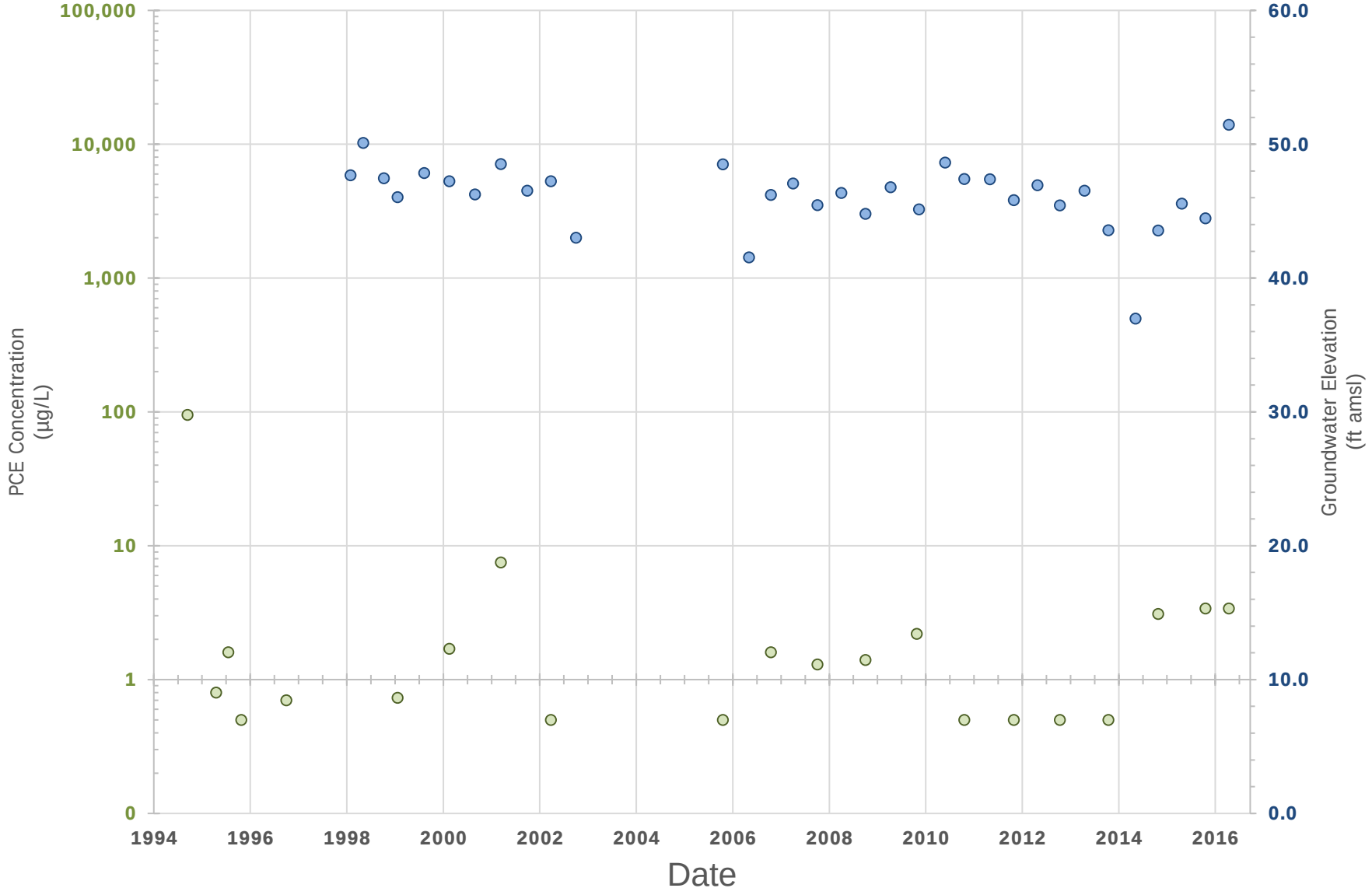
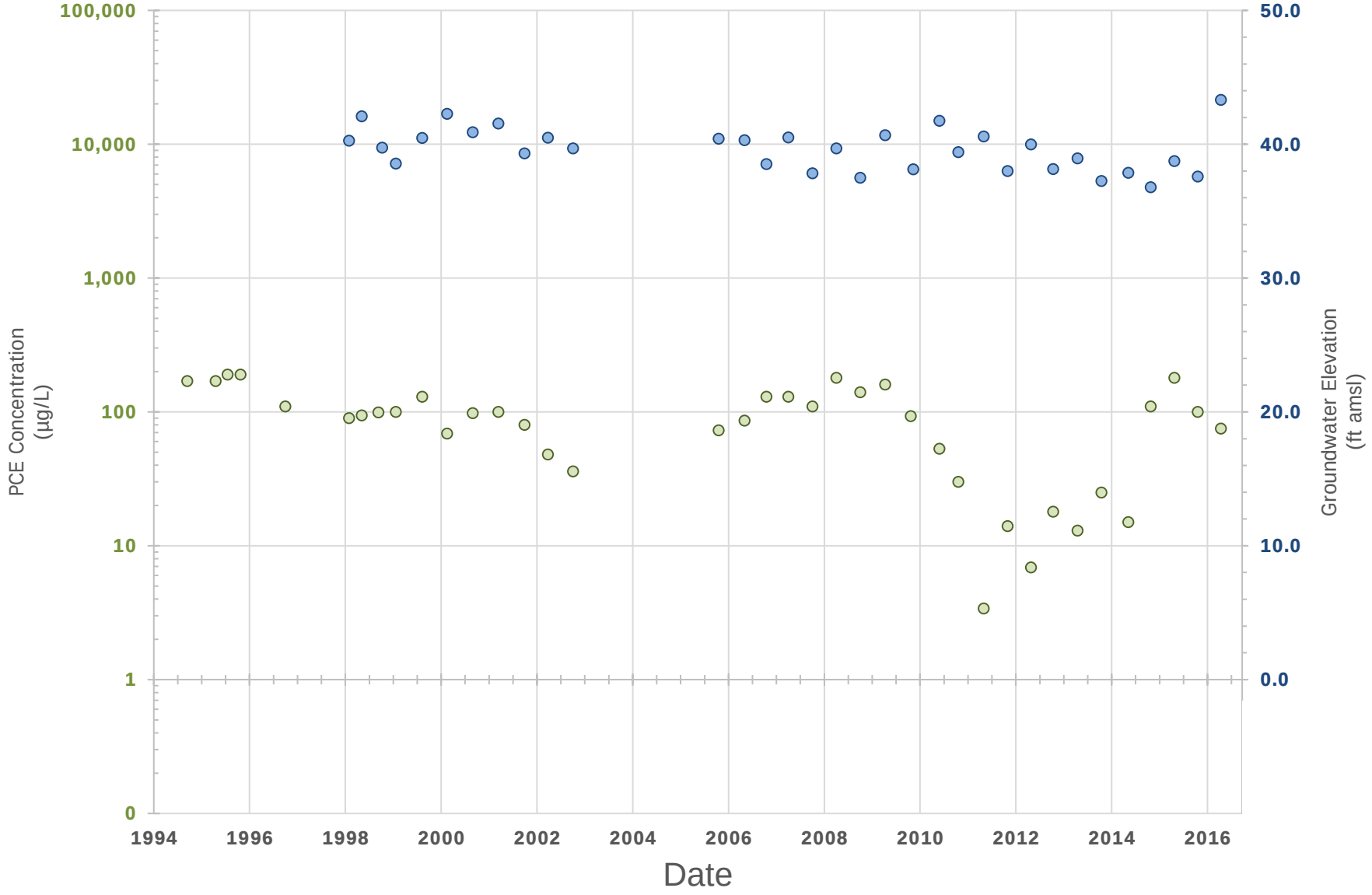


FIGURE 9
PCE and GW Hydrograph
AMW-9

Note:
TOC - 63.48



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	1/29/1999	24-34	64.51	23.01	41.50
(Shallow)	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
	10/26/2015		64.51	25.29	39.22
	4/22/2016		64.51	23.01	41.50
	10/19/2016		64.51	25.06	39.45
	4/13/2017		**64.51**	**18.60**	**45.91**
AMW-4	1/29/1999	15-25	64.79	11.51	53.28
(Shallow)	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

Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
AMW-5	1/29/1999	20-30	64.97	13.87	51.10
(Shallow)	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	1/29/1999	? - 25	65.10	12.74	52.36
(Shallow)	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	5/27/2011	13-23	NA	14.70	NA
(Shallow)	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
	10/26/2015		NA	16.01	NA
	4/22/2016		NA	15.69	NA
	10/19/2016		NA	15.49	NA
	4/13/2017		NA	11.93	NA
AMW-7	1/29/1999	Unknown	64.24	14.91	49.33
(Shallow)	5/5/1999		Well Covered during construction		

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-8	1/29/1999	31 - 45	64.55	16.86	47.69
(Deep)	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
	10/26/2015		64.55	21.00	43.55
	4/22/2016		64.55	18.98	45.57
	10/19/2016		64.55	20.09	44.46
	4/13/2017		**64.55**	**13.10**	**51.45**
AMW-9	1/29/1999	43.5 - 55	63.48	23.22	40.26
(Deep)	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
	10/26/2015		63.48	26.70	36.78
	4/22/2016		63.48	24.74	38.74
	10/19/2016		63.48	25.90	37.58
	4/13/2017		**63.48**	**20.16**	**43.32**

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-2	1/29/1999	23-28	63.18	23.41	39.77
(Shallow)	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
	10/14/2014		Destroyed/ Covered with Black Top		
WGR MW-3	1/29/1999	22-27	58.34	15.81	42.53
(Shallow)	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	1/29/1999	23-45	60.02	26.23	33.79
(Deep)	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	1/29/1999	42-52	52.34	23.91	28.43
(Deep)	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
	10/26/015		52.34	30.51	21.83
	4/22/2016		52.34	23.28	29.06
	10/19/2016		52.34	28.39	23.95
	4/13/2017		**52.34**	**15.66**	**36.68**

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	1/29/1999	59-64	54.06	26.38	27.68
(Deep)	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
	10/26/2015		54.06	32.57	21.49
	4/22/2016		54.06	25.56	28.50
	10/19/2016			Well Inaccessible	
MW-6	1/29/1999	37.5-56	61.78	32.87	28.91
(Deep)	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 (aguifer zone)	Date	DTW (feet)	PCE µg/L	TCE µg/L	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	VHCs* µg/L
AMW-1	3/23/95	-	ND<0.5	ND<0.5	-	ND<0.5	ND<0.5
(shallow)	6/21/95	-	ND<0.5	ND<0.5	-	ND<0.5	ND<0.5
	9/11/95	-	ND<0.5	ND<0.5	-	ND<0.5	ND<0.5
	4/16/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/17/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/23/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/29/97	-	NS	NS	NS	NS	NS
	1/20/00	24.66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/8/00	23.30	NS	NS	NS	NS	NS
	2/15/01	23.22	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	24.38	NS	NS	NS	NS	NS
	3/12/02	21.29	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	23.62	NS	NS	NS	NS	NS
	3/25/03	22.45	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/2/03	24.31	NS	NS	NS	NS	NS
	10/17/06	22.91	2.2	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/2/07	18.61	ND<0.5	0.69	ND<0.5	ND<0.5	ND<RL
	10/17/07	23.97	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/1/08	22.02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/2/08	24.21	0.60	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/2/09	22.49	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/2/09	24.38	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/9/10	21.68	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/25/10	24.11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/27/11	20.98	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/19/11	23.41	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/30/12	22.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/29/12	24.31	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	22.39	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/11/13	24.37	0.62	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/16/14	23.01	0.68	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/14/14	24.73	0.69	ND<0.5	ND<0.5	ND<0.5	ND<RL
	05/07/15	24.01	0.50	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/26/15	25.29	2.2	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/22/16	23.01	1.4	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/19/16	25.06	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL[12]
	04/13/17	**18.60**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	ND<RL[12]
AMW-4	5/15/95	-	2400	ND<50	NR	ND<50	NR
(shallow)	6/21/95	-	2500	ND<50	NR	ND<50	NR
	9/13/95	-	1100	ND<25	NR	ND<25	NR
	4/16/96	-	1200	10	ND<10	ND<10	NR
	7/17/96	-	860	ND<10	ND<10	ND<10	NR
	10/23/96	-	22	0.5	ND<0.5	ND<0.5	NR
	9/29/97	-	340	3	ND<3	ND<3	NR
	1/29/99	11.51	100	ND<3	ND<3	ND<3	ND<3
	5/5/99	10.14	210	ND<5	ND<5	ND<5	ND<5
	9/10/99	12.04	240	18	10	ND<5	ND<5
	1/20/00	13.50	97	6.2	46	ND<2.5	ND<2.5
	8/8/00	11.74	440	8	ND<5	ND<5	ND<5
	2/15/01	12.32	81	2.6	ND<2.5	ND<2.5	ND<2.5
	8/29/01	12.40	230	4.6	ND<2.5	ND<2.5	ND<2.5
	3/12/02	10.13	190	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	9/27/02	12.14	220	ND<5.0	ND<5.0	ND<5.0	10***
	3/25/03	11.03	22	1.9	1.2	ND<1.0	ND<1.0
	10/2/03	12.33	50	2.8	2.8	ND<0.5	ND<0.5
	10/17/06	12.76	6.5	ND<0.5	9.9	ND<0.5	ND<RL
	5/3/07	11.11	5.1	1.2	2.7	ND<0.5	ND<RL**
	10/17/07	12.64	6.2	ND<0.5	4.0	ND<0.5	ND<RL
	4/1/08	11.49	5.8	2.6	3.3	ND<0.5	0.85**
	10/2/08	13.34	34	2.9	11.0	ND<1.0	ND<RL[3]
	4/2/09	12.21	8.0	0.76	2.8	ND<0.5	ND<RL[4]
	10/2/09	13.91	4.3	0.89	11	ND<0.5	ND<RL[5]
	4/9/10	11.23	11	1.6	1.9	ND<0.5	ND<RL[7]
	10/22/10	12.85	0.76	0.53	ND<0.5	ND<0.5	ND<RL
	5/27/11	10.25	1.9	0.75	ND<0.5	ND<0.5	ND<RL
	10/19/11	12.42	1.2	0.68	6.0	ND<0.5	ND<RL
	4/30/12	11.49	1.0	0.82	0.73	ND<0.5	ND<RL
	10/29/12	Well Destroyed During Construction					

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

Well (aguifer zone)	Date	DTW (feet)	PCE µg/L	TCE µg/L	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	VHCs* µg/L
AMW-5	5/15/95	-	1.2	ND<0.5	NR	ND<0.5	NR
(shallow)	6/21/95	-	ND<0.5	ND<0.5	NR	ND<0.5	NR
	9/13/95	-	ND<0.5	ND<0.5	NR	ND<0.5	NR
	4/16/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NR
	7/17/96	-	0.6	ND<0.5	ND<0.5	ND<0.5	NR
	10/23/96	-	0.8	ND<0.5	ND<0.5	ND<0.5	NR
	9/29/97	-	13	ND<0.5	ND<0.5	ND<0.5	NR
	1/29/99	13.87	NA	NA	NA	NA	NA
	5/5/99	12.83	36	ND<1	ND<1	ND<1	ND<1
	9/10/99	14.25	35	ND<1	ND<1	ND<1	ND<1
	1/20/00	14.91	36	ND<1	ND<1	ND<1	ND<1
	8/8/00	14.14	50	0.72	ND<0.5	ND<0.5	ND<0.5
	2/15/01	14.32	26	0.76	ND<0.5	ND<0.5	ND<0.5
	8/29/01	14.72	28	0.87	ND<0.5	ND<0.5	ND<0.5
	3/12/02	13.12	25	0.75	ND<0.5	ND<0.5	ND<0.5
	9/27/02	14.62	17	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/25/03	13.45	23	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	10/2/03	14.74	20	0.58	ND<0.5	ND<0.5	ND<0.5
	10/17/06	14.15	22	0.88	0.68	ND<0.5	ND<RL
	5/3/07	13.92	42	2.0	0.91	ND<0.5	ND<RL
	10/17/07	15.06	42	2.0	1.2	ND<0.5	ND<RL
	4/1/08	14.14	50	2.8	1.7	ND<0.5	ND<RL
	10/2/08	15.72	46	2.3	1.5	ND<1.0	ND<RL
	4/2/09	14.62	56	2.9	ND<1.7	ND<1.7	ND<RL
	10/2/09	16.18	31	1.4	0.87	ND<0.5	ND<RL
	4/9/10	13.98	35	2.1	ND<1.0	ND<1.0	ND<RL
	10/22/10	15.78	29	2.0	0.93	ND<1.0	ND<RL
	5/27/11	13.65	23	1.9	0.76	ND<0.5	ND<RL
	10/19/11	14.68	20	1.5	ND<0.5	ND<0.5	ND<RL
	4/30/12	14.87	8.1	1.2	0.59	ND<0.5	ND<RL
	10/29/12	Well Destroyed During Construction					
AMW-6	9/13/95	-	930	ND<25	NR	ND<25	NR
(shallow)	4/16/96	-	1900	110	20	ND<10	NR
	7/17/96	-	3300	280	ND<30	ND<30	NR
	10/23/96	-	2900	140	ND<30	ND<30	NR
	9/29/97	-	4600	580	220	70	NR
	1/29/99	12.74	2400	390	270	77	ND<63
	5/5/99	11.30	2700	470	370	110	ND<71
	9/10/99	13.29	1400	250	190	49	ND<36
	1/20/00	14.21	1600	270	210	ND<35	ND<35
	8/8/00	12.95	1100	180	150	56	ND<25
	2/15/01	12.64	930	200	190	40	ND<25
	8/29/01	13.65	780	110	77	17	ND<10
	3/12/02	11.41	1300	170	150	37	ND<25
	9/27/02	13.25	490	91	67	ND<17	ND<17
	3/25/2003	12.22	740	110	94	ND<33	ND<33
	10/2/2003	14.74	440	60	66	13	ND<10
	10/17/2006	11.46	98	14	32	4.9	ND<RL
	5/3/2007	13.04	120	22	32	ND<5.0	ND<RL
	10/17/2007	13.87	140	27	48	8.4	ND<RL [2]
	4/1/2008	12.64	140	24	39	6.2	ND<RL
	10/2/2008	14.54	130	26	43	7.1	ND<RL
	4/2/2009	13.38	250	37	50	8.1	ND<RL
	10/2/2009	16.03	240	44	55	11	ND<RL [6]
	4/9/2010	12.75	530	61	56	ND<25	ND<RL
	10/22/2010	14.56	260	42	48	10	ND<RL
	5/27/2011	Destroyed and Replaced with Well AMW-6R					

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

Well (aguifer zone)	Date	DTW (feet)	PCE µg/L	TCE µg/L	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	VHCs* µg/L
AMW-6R	5/27/2011	14.70	210	45	54	7.5	ND<RL
(shallow)	10/19/2011	14.50	570	86	86	ND<12	ND<RL
	4/30/2012	15.94	220	65	74	8.6	ND<RL
	10/29/12	14.54	520	92	93	14	ND<RL
	04/26/13	14.18	410	98	92	<25	ND<RL
	10/11/13	14.58	540	110	100	15	ND<RL
	04/16/14	13.84	540	110	110	ND<12	ND<RL
	10/14/14	16.31	490	110	120	ND<25	ND<RL
	05/07/15	7.18	690	140	120	ND<25	ND<RL
	10/26/15	16.01	590	130	110	ND<17	ND<RL
	04/22/16	15.69	990	170	140	18	ND<RL
	10/19/16	15.49	680	120	110	ND<25	ND<RL[13]
	04/13/17	**11.93**	**860**	**150**	**94**	**ND<2.5**	ND<RL[13]
AMW-7	9/13/95	-	2350	340	NR	ND<25	NR
(shallow)	4/16/96	-	2300	500	2200	60	NR
	7/17/96	-	2400	530	2100	ND<30	NR
	10/23/96	-	3400	610	3100	50	NR
	9/29/97	-	520	100	33	20	NR
	1/29/99	14.91	95	12	22	ND<3	ND<3
	5/5/99	-	Well Covered During Construction				
AMW-8	9/13/95	-	95	ND<25	-	ND<25	ND<25
(deep)	4/16/96	-	0.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/17/96	-	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/23/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/29/97	-	0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/20/00	18.51	0.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/8/00	16.71	NS	NS	NS	NS	NS
	2/15/01	17.31	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	18.30	NS	NS	NS	NS	NS
	3/12/02	16.03	7.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	18.03	NS	NS	NS	NS	NS
	3/25/03	17.31	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/2/03	21.54	NS	NS	NS	NS	NS
	10/17/06	16.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/07	23.01	NS	NS	NS	NS	NS
	10/17/07	18.34	1.6	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/1/08	17.49	NS	NS	NS	NS	NS
	10/2/08	19.10	1.3	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/2/09	18.18	NS	NS	NS	NS	NS
	10/2/09	19.75	1.4	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/9/10	17.76	NS	NS	NS	NS	NS
	10/25/10	19.41	2.2	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/27/11	15.92	NS	NS	NS	NS	NS
	10/19/11	17.15	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/30/12	17.16	NS	NS	NS	NS	NS
	10/29/12	18.72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	17.61	NS	NS	NS	NS	NS
	10/11/13	19.11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/16/14	18.02	NS	NS	NS	NS	NS
	10/14/14	20.98	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	05/07/15	27.57	NS	NS	NS	NS	NS
	10/26/15	21.00	3.1	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/22/16	18.98	NS	NS	NS	NS	NS
	10/19/16	20.09	3.4	ND<0.5	ND<0.5	ND<0.5	ND<RL[12]
	04/13/17	**13.10**	3.4	ND<0.5	ND<0.5	ND<0.5	ND<RL[12]

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

Well (aguifer zone)	Date	DTW (feet)	PCE µg/L	TCE µg/L	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	VHCs* µg/L
AMW-9	9/13/95	-	170	ND<25	NR	ND<25	NR
(deep)	4/16/96	-	170	4	7	ND<3	NR
	7/17/96	-	190	4	ND<3	ND<3	NR
	10/23/96	-	190	ND<3	ND<3	ND<3	NR
	9/29/97	-	110	ND<3	ND<3	ND<3	NR
	1/29/99	23.22	90	ND<4	ND<4	ND<4	ND<4
	5/5/99	21.40	94	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	9/10/99	23.74	99	ND<2.1	ND<2.1	ND<2.1	ND<2.1
	1/20/00	24.92	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/8/00	23.01	130	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	2/15/01	21.20	69	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	8/29/01	22.59	98	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	3/12/02	21.94	100	ND<2.5	ND<2.5	ND<2.5	ND<2.5
	9/27/02	24.16	80	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	3/25/03	23.00	48	ND<2.5	4.1	ND<2.5	ND<2.5
	10/2/03	23.80	36	1.1	4.8	<0.5	ND<0.5
	10/17/06	23.07	73	ND<1.7	ND<1.7	ND<1.7	ND<RL
	5/3/07	23.17	86	ND<2.5	ND<2.5	ND<2.5	ND<RL
	10/17/07	24.97	130	ND<2.5	ND<2.5	ND<2.5	ND<RL
	4/1/08	22.97	130	ND<2.5	ND<2.5	ND<2.5	ND<RL
	10/2/08	25.65	110	ND<2.5	ND<2.5	ND<2.5	ND<RL
	4/2/09	23.80	180	ND<2.5	ND<2.5	ND<2.5	ND<RL
	10/2/09	25.98	140	ND<2.5	ND<2.5	ND<2.5	ND<RL
	4/9/10	22.80	160	ND<5.0	ND<5.0	ND<5.0	ND<RL
	10/22/10	25.36	93	ND<1.7	ND<1.7	ND<1.7	ND<RL
	5/27/11	21.73	53	ND<1.2	ND<1.2	ND<1.2	ND<RL
	10/19/11	24.07	30	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/30/12	22.90	3.4	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/29/12	25.49	14	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	23.49	6.9	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/11/13	25.33	18	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/16/14	24.53	13	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/14/14	26.22	25	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/7/15	25.62	15	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/26/15	26.70	110	ND<2.5	ND<2.5	ND<2.5	ND<RL
	4/22/16	24.74	180	ND<5.0	ND<5.0	ND<5.0	ND<RL
	10/19/16	**25.90**	**100**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<RL[13]**
	4/13/17	**20.16**	**75**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<RL[13]**
FHS MW-10	10/9/97	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NR
(deep)	1/29/99	23.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/5/99	20.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/10/99	25.00	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/20/00	27.23	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/8/00	24.06	NS	NS	NS	NS	NS
	2/15/01	24.16	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	26.11	NS	NS	NS	NS	NS
	3/12/02	23.94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	25.86	NS	NS	NS	NS	NS
	3/25/03	23.20	18	2.5	1.7	ND<1.0	5.0**
	10/6/03	26.39	1.4	ND<0.5	ND<0.5	ND<0.5	1.0**
	10/17/06	24.35	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/2007 [1]	23.97	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/17/07	27.71	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/1/08	23.79	0.88	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/2/08	28.40	3.4	ND<0.5	ND<0.5	ND<0.5	1.4**
	4/2/09	23.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/2/09	28.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/9/10	22.04	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/22/10	NA	NS	NS	NS	NS	NS
	5/27/11	21.28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/19/11	24.18	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL [8]
	4/30/12	22.41	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/29/12	25.25	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	25.49	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/11/13	28.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/16/14	28.12	27	0.55	ND<0.5	ND<0.5	ND<RL
	10/14/14	31.15	25	ND<0.5	ND<0.5	ND<0.5	ND<RL
	05/07/15	26.79	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/26/15	30.51	Well Inaccessible - Car				
	04/22/16	23.28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/19/16	**28.39**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<RL[12]**
	04/13/17	**15.66**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<RL[12]**

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

Well (aguifer zone)	Date	DTW (feet)	PCE µg/L	TCE µg/L	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	VHCs* µg/L
FHS MW-11	9/29/97	-	4	ND<0.5	ND<0.5	ND<0.5	NR
(deep)	1/29/99	26.38	7	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/5/99	22.72	7.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/10/99	27.42	7.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/20/00	29.31	7.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/8/00	26.11	38	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/15/01	26.43	18	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	28.28	16	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/12/02	21.61	13	ND<0.5	ND<0.5	ND<0.5	0.77**
	9/27/02	27.93	13	ND<1	ND<1	ND<1	6.4** 1.1***
	3/25/03	45.21	12	0.88	0.78	ND<0.5	4.0** 1.0****
	10/2/03			Well Inaccessible			
	10/17/06	26.54	20	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/2007 [1]	26.25	25	1.1	ND<0.5	ND<0.5	ND<RL
	10/17/07	29.88	31	0.71	ND<0.5	ND<0.5	ND<RL
	4/1/08	26.02	26	0.61	ND<0.5	ND<0.5	ND<RL
	10/2/08	30.61	31	0.74	ND<0.5	ND<0.5	ND<RL
	4/2/09	26.09	32	0.71	ND<0.5	ND<0.5	ND<RL
	10/5/09	30.80	32	0.70	ND<0.5	ND<0.5	ND<RL
	4/9/10	21.51	32	ND<1.0	ND<1.0	ND<1.0	ND<RL
	10/22/10	NA	NS	NS	NS	NS	NS
	5/27/11	23.38	63	1.9	ND<1.7	ND<1.7	NS
	10/19/11	27.23	49	ND<1.0	ND<1.0	ND<1.0	ND<RL
	4/30/12	24.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/29/12	28.29	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	29.02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/11/13	30.94	26	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/16/2014	29.19	22	ND<0.5	ND<0.5	ND<0.5	ND<RL[9]
	10/14/2014	32.23	17	ND<0.5	ND<0.5	ND<0.5	ND<RL[10]
	5/7/2015	27.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL[11]
	10/26/2015	32.57	37	ND<1.0	ND<1.0	ND<1.0	ND<RL
	4/22/2016	25.56	5.6	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/19/2016			Well Inaccessible - Car			
	4/28/2017			Well Inaccessible - Car			
MW-6	3/11/95	-	1300	ND<20	ND<20	ND<0.5	NR
(deep)	6/5/95	-	2000	ND<20	ND<20	ND<20	NR
	8/29/95	-	1300	ND<20	ND<20	ND<20	NR
	9/11/95	-	2000	ND<50	NR	ND<50	NR
	11/16/95	-	1300	ND<20	ND<20	ND<20	NR
	2/28/96	-	960	ND<20	ND<20	ND<20	NR
	4/16/96	-	1400	10	10	10	NR
	5/28/96	-	970	ND<20	ND<20	ND<20	NR
	7/17/96	-	590	ND<5	ND<5	ND<5	NR
	8/19/96	-	820	ND<20	ND<20	ND<20	NR
	10/23/96	-	680	ND<5	ND<5	ND<5	NR
	11/21/96	-	680	ND<20	ND<20	ND<20	NR
	3/26/97	-	830	ND<40	ND<40	ND<40	NR
	5/20/97	-	270	ND<5	ND<5	ND<5	NR
	9/29/97	-	670	ND<10	ND<10	ND<10	NR
	1/29/99	32.87	49	3	1.4	ND<1.3	ND<1.3
	5/5/99	29.41	530	38	19	ND<11	ND<11
	9/10/99	33.98	560	53	27	ND<12	ND<12
	1/20/00	36.02	660	31	18	ND<8.5	ND<8.5
	8/8/00	32.73	1700	170	98	16	ND<5
	2/15/01	33.34	650	87	64	ND<10	ND<10
	8/29/01	34.98	550	38	19	ND<5.0	ND<5.0
	3/12/02	30.72	1200	99	61	ND<20	ND<20
	9/27/02	34.50	300	27	ND<12	ND<12	ND<12
	3/25/03	32.08	49	3.8	2.6	ND<2.5	ND<2.5
	10/2/03	34.86	340	21	13	ND<5.0	ND<5.0
	10/17/06	32.58	320	18	16	ND<5.0	ND<RL
	5/3/07	32.54	39	2.1	0.92	ND<0.5	ND<RL
	10/17/07	36.20	310	18	10	ND<5.0	ND<RL
	4/1/08	32.39	76	9.2	6.8	ND<1.7	ND<RL
	10/2/08	36.86	380	33	21	ND<12	ND<RL
	4/2/09	32.67	420	28	17	ND<10	ND<RL
	10/2/09	36.98	410	29	22	ND<10	ND<RL
	4/9/10	30.09	160	10	5.5	ND<5.0	ND<RL
	10/25/10	35.87	400	30	26	ND<10	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 (aguifer zone)	Date	DTW (feet)	PCE µg/L	TCE µg/L	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	VHCs* µg/L
MW-7	3/11/95	-	NS	NS	NS	NS	NS
(shallow)	6/5/95	-	ND<10	ND<10	ND<10	ND<10	ND<10
	8/29/95	-	ND<10	ND<10	ND<10	ND<10	ND<10
	9/11/95	-	-	ND<50	85	ND<50	ND<50
	11/16/95	-	ND<20	ND<20	ND<20	ND<20	ND<20
	2/28/96	-	ND<10	ND<10	ND<10	ND<10	ND<10
	4/16/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/28/96	-	ND<10	ND<10	ND<10	ND<10	ND<10
	7/17/96	-	ND<0.5	0.6	0.6	ND<0.5	ND<0.5
	8/19/96	-	ND<1	ND<1	ND<1	ND<1	ND<1
	10/23/96	-	ND<0.5	ND<0.5	0.6	ND<0.5	ND<0.5
	11/21/96	-	ND<10	ND<10	ND<10	ND<10	ND<10
	3/26/97	-	ND<20	ND<20	ND<20	ND<20	ND<20
	5/20/97	-	ND<10	ND<10	ND<10	ND<10	ND<10
	9/29/97	-	ND<10	ND<10	ND<10	ND<10	ND<10
	1/20/00	20.32	ND<6.5	ND<6.5	ND<6.5	ND<6.5	ND<6.5
	8/8/00	20.50	NS	NS	NS	NS	NS
	2/15/01	16.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	21.61	NS	NS	NS	NS	NS
	3/12/02	17.03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	22.73	NS	NS	NS	NS	NS
	3/25/03	19.09	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/2/03	22.46	NS	NS	NS	NS	NS
	10/17/06	22.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL*****
	5/3/07	19.52	NS	NS	NS	NS	NS
	10/17/07	21.49	ND<10	ND<10	ND<10	ND<10	ND<RL
	4/1/08	19.73	NS	NS	NS	NS	NS
	10/2/08	24.64	2.2	ND<1.0	ND<1.0	ND<1.0	ND<RL
	4/2/09	18.60	NS	NS	NS	NS	NS
	10/2/09	22.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/9/10	17.57	NS	NS	NS	NS	NS
	10/22/10	22.16	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	10/17/06	23.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	10/14/14		Well Destroyed during construction activities				
WGR MW-3	10/17/06	21.86	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.				

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

Well (aguifer zone)	Date	DTW (feet)	PCE µg/L	TCE µg/L	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	VHCs* µg/L
WGR MW-4	4/16/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
(deep)	7/17/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/23/96	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/29/97	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/15/01	26.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/29/01	27.14	NS	NS	NS	NS	NS
	3/12/02	24.90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	27.09	NS	NS	NS	NS	NS
	3/25/03	25.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/2/03	27.41	NS	NS	NS	NS	NS
	10/17/06	26.31	0.62	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/3/07	26.13	NS	NS	NS	NS	NS
	10/17/07	28.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/1/08	25.91	NS	NS	NS	NS	NS
	10/2/08	28.85	0.55	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/2/09	25.77	NS	NS	NS	NS	NS
	10/2/09	28.81	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/9/10	25.01	NS	NS	NS	NS	NS
	10/22/10	28.14	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	5/27/11	24.51	NS	NS	NS	NS	NS
	10/19/11	26.97	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	4/30/12	24.48	NS	NS	NS	NS	NS
	10/29/12	28.23	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<RL
	04/26/13	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)
[1] = Reported by laboratroy without letters FHS as prefix
[2] = Vinyl Chloride detected at a concentration of 1.9 ug/L
[3] = Vinyl Chloride detected at a concentration of 2.0 ug/L
[4] = Vinyl Chloride detected at a concentration of 0.66 ug/L
[5] = Vinyl Chloride detected at a concentration of 4.0 ug/L
[6] = Vinyl Chloride detected at a concentration of 11 ug/L
[7] = Chloroform detected at a concentration of 0.69 ug/L
[8] = Chloroform detected at a concentration of 0.64 ug/L
[9] = Chloroform detected at a concentration of 1.2 ug/L
[10] =Choloform detected at a concentration of 8.3 ug/L
[11] =Choloform 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[12] = Reporting Limit with standard dilution factor (1)
RL[13] = Reporting Limit with elevated dilution factor (>1); refer to lab report for details.
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

DATE: 4/13/17

AEI CONSULTANTS
MONITORING WELLHEAD CONDITION SURVEY FORM

PAGE: 1 OF: 1

Project Name: Foothill Square
Location: 10700 MacArthur Blvd, Oakland CA
Project No.: 365948

Field Technician: N. Bricker
Project Manager: Jonathan Sanders
Weather Conditions: Overcast, Light Rain

Well ID	Well Size (inches)	Depth to Water (ft btoc)	Condition Assessment (good, missing, replaced, needs replacement, NA)						Additional Notes / Comments
			Casing	Well Box	Well Plug	Bolts	Lid	Gauges	
AMW-1	2	18.60	good	→	→	missing	Good	N/A	Under Pressure
AMW-6R	2	[redacted],11.93	good	→	→	missing	Good	N/A	Under pressure
AMW-8	2	13.10	good	→	→	N/A	Good	N/A	
AMW-9	2	20.16	good	→	→	N/A	Good	N/A	Under Pressure
FHS MW-10	2	15.66	good	good	good	NR	Good	N/A	Bolts missing & stripped
FHS MW-11									Inaccessible

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: FHS MW-10

Project Name:	Foothill Square	Date of Sampling:	4/13/17
Job Number:	365948	Name of Sampler:	NB
Project Address:	10700 MacArthur Blvd., Oakland CA		

MONITORING WELL DATA

Well Casing Diameter (inches)	2		
Well cross sectional area (square feet)	0.0218		
Static Depth to Groundwater (feet below top of casing)	~~15.08~~ 15.06		
Total Well Depth (feet below top of casing)	51.94		
Height of Water Column (feet)	Total Depth - DGWTW		
Total Well Volume (gallons)	(7.48)(Height of water column)(Well Cross Sectional Area) 5.92		
Target Volume Purged (gallons)	(3)(Total Well Volume) 17.73		
Actual Volume Purged (gallons)	20		
Appearance of Purge Water	clear		
Free Product Present?	na	Thickness (ft):	-

Purging

Number of Samples/Container Size				3-VOAs			
Time	Cumulative Volume Purged (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1054 Start							
~~1056~~	5	18.81	6.37	~~553~~	2.28	186.0	cloudy
1058	10	18.94	6.58	623	1.69	147.0	"
1100	15	19.12	6.55	557	1.49	114.3	"
1102	20	19.10	6.56	558	1.73	108.2	clear
1105	Sample						

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

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: AMW-1

Project Name:	Foothill Square	Date of Sampling:	4/13/17
Job Number:	365948	Name of Sampler:	NB
Project Address:	10700 MacArthur Blvd., Oakland CA		

MONITORING WELL DATA

Well Casing Diameter (inches)	2		
Well cross sectional area (square feet)	0.0218		
Static Depth to Groundwater (feet below top of casing)	18.60		
Total Well Depth (feet below top of casing)	45		
Height of Water Column (feet)	Total Depth - DGWTW		
Total Well Volume (gallons)	(7.48)(Height of water column)(Well Cross Sectional Area) 4.30		
Target Volume Purged (gallons)	(3)(Total Well Volume) 12.9		
Actual Volume Purged (gallons)	~~15~~ 7.5		
Appearance of Purge Water	clear		
Free Product Present?	na	Thickness (ft):	-

Purging

Number of Samples/Container Size				3-VOAs			
Time	Cumulative Volume Purged (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1112	Start						
1115	5	19.49	6.96	1308	3.00	189.3	
1117	~~10~~ 7.5	19.73	7.04	1309	1.67	120.5	
	~~15~~ Dry at 7.5 gallons						
1310	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:	4/13/17
Job Number:	365948	Name of Sampler:	NB
Project Address:	10700 MacArthur Blvd., Oakland CA		

MONITORING WELL DATA

Well Casing Diameter (inches)	2		
Well cross sectional area (square feet)	0.0218		
Static Depth to Groundwater (feet below top of casing)	20.16		
Total Well Depth (feet below top of casing)	54.30		
Height of Water Column (feet)	Total Depth - DGWTW		
Total Well Volume (gallons)	(7.48)(Height of water ~~5.56~~ 5.57 (WC) Secional Area)		
Target Volume Purged (gallons)	(3)(T ~~16.77~~ Volume)		
Actual Volume Purged (gallons)	~~sheen~~		
Appearance of Purge Water	clear		
Free Product Present?	na	Thickness (ft):	-

Purging

Number of Samples/Container Size				3-VOAs			
Time	Cumulative Volume Purged (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1137 start							
1138	5	19.78	6.36	1672	2.94	224.6	Cloudy
1140	10	20.82	7.02	1633	1.92	166.0	Clear
1142	~~15~~ 12.5	20.56	6.98	1677	1.28	149.5	
~~1146~~	~~20~~	Dry at	12.5				
1315	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:	4/13/17
Job Number:	365948	Name of Sampler:	NB
Project Address:	10700 MacArthur Blvd., Oakland CA		

MONITORING WELL DATA

Well Casing Diameter (inches)	2		
Well cross sectional area (square feet)	0.0218		
Static Depth to Groundwater (feet below top of casing)	11.93		
Total Well Depth (feet below top of casing)	23		
Height of Water Column (feet)	Total Depth - DGWTW		
Total Well Volume (gallons)	(7.48)(Height of water column)(Well Cross Secional Area) 1.80		
Target Volume Purged (gallons)	(3)(Total Well Volume) 5.4		
Actual Volume Purged (gallons)	5		
Appearance of Purge Water	clear		
Free Product Present?	na	Thickness (ft):	-

Purging

Number of Samples/Container Size: 3-VOAs

Time	Cumulative Volume Purged (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1216 start							
1217	2.5	18.17	7.23	1380	1.77	134.9	clear
1218	[redacted]5	18.54	7.19	1419	1.43	104.7	clear
	well dry at 5 gal						
1320	sample						

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

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: AMW-8

Project Name:	Foothill Square	Date of Sampling:	4/13/17
Job Number:	365948	Name of Sampler:	NB
Project Address:	10700 MacArthur Blvd., Oakland CA		

MONITORING WELL DATA

Well Casing Diameter (inches)	2		
Well cross sectional area (square feet)	0.0218		
Static Depth to Groundwater (feet below top of casing)	13.10		
Total Well Depth (feet below top of casing)	45		
Height of Water Column (feet)	Total Depth - DGWTW		
Total Well Volume (gallons)	(7.48)(Height of water column)(Well Cross Sectional Area) 5.20		
Target Volume Purged (gallons)	(3)(Total Well Volume) 15.60		
Actual Volume Purged (gallons)			
Appearance of Purge Water	cloudy		
Free Product Present?	na	Thickness (ft):	-

Purging

Number of Samples/Container Size: 3-VOAs

Time	Cumulative Volume Purged (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1246 Start							
1248	5	18.44	7.50	356	2.65	188.0	cloudy
1250	10	19.01	7.98	331	1.30	138.3	↓
1251	12.5	19.19	7.97	344	1.25	124.0	↓
	Dry at 12.5 Gal						
1335	Sample						

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

APPENDIX B

LABORATORY ANALYSIS WITH CHAIN OF CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1704564

Report Created for: AEI Consultants

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

Project Contact: Jeremy Smith
Project P.O.: 130063
Project Name: 365948; Foothill Square

Project Received: 04/13/2017

Analytical Report reviewed & approved for release on 04/19/2017 by:

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 365948; Foothill Square
WorkOrder: 1704564

Glossary Abbreviation

%D	Serial Dilution Percent Difference
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 (Serial Dilution)
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
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-1	**1704564-001A**	**Water**	**04/13/2017 13:10**	**GC18**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	0.50	1	04/18/2017 12:39
Bromochloromethane	ND	0.50	1	04/18/2017 12:39
Bromodichloromethane	ND	0.50	1	04/18/2017 12:39
Bromoform	ND	0.50	1	04/18/2017 12:39
Bromomethane	ND	0.50	1	04/18/2017 12:39
Carbon Tetrachloride	ND	0.50	1	04/18/2017 12:39
Chlorobenzene	ND	0.50	1	04/18/2017 12:39
Chloroethane	ND	0.50	1	04/18/2017 12:39
Chloroform	ND	0.50	1	04/18/2017 12:39
Chloromethane	ND	0.50	1	04/18/2017 12:39
2-Chlorotoluene	ND	0.50	1	04/18/2017 12:39
4-Chlorotoluene	ND	0.50	1	04/18/2017 12:39
Dibromochloromethane	ND	0.50	1	04/18/2017 12:39
1,2-Dibromo-3-chloropropane	ND	0.20	1	04/18/2017 12:39
1,2-Dibromoethane (EDB)	ND	0.50	1	04/18/2017 12:39
Dibromomethane	ND	0.50	1	04/18/2017 12:39
1,2-Dichlorobenzene	ND	0.50	1	04/18/2017 12:39
1,3-Dichlorobenzene	ND	0.50	1	04/18/2017 12:39
1,4-Dichlorobenzene	ND	0.50	1	04/18/2017 12:39
Dichlorodifluoromethane	ND	0.50	1	04/18/2017 12:39
1,1-Dichloroethane	ND	0.50	1	04/18/2017 12:39
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	04/18/2017 12:39
1,1-Dichloroethene	ND	0.50	1	04/18/2017 12:39
cis-1,2-Dichloroethene	ND	0.50	1	04/18/2017 12:39
trans-1,2-Dichloroethene	ND	0.50	1	04/18/2017 12:39
1,2-Dichloropropane	ND	0.50	1	04/18/2017 12:39
1,3-Dichloropropane	ND	0.50	1	04/18/2017 12:39
2,2-Dichloropropane	ND	0.50	1	04/18/2017 12:39
1,1-Dichloropropene	ND	0.50	1	04/18/2017 12:39
cis-1,3-Dichloropropene	ND	0.50	1	04/18/2017 12:39
trans-1,3-Dichloropropene	ND	0.50	1	04/18/2017 12:39
Freon 113	ND	0.50	1	04/18/2017 12:39
Hexachlorobutadiene	ND	0.50	1	04/18/2017 12:39
Hexachloroethane	ND	0.50	1	04/18/2017 12:39
Methylene chloride	ND	0.50	1	04/18/2017 12:39
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/18/2017 12:39
1,1,2,2-Tetrachloroethane	ND	0.50	1	04/18/2017 12:39

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-1	**1704564-001A**	**Water**	**04/13/2017 13:10**	**GC18**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	ND	0.50	1	04/18/2017 12:39
1,2,3-Trichlorobenzene	ND	0.50	1	04/18/2017 12:39
1,2,4-Trichlorobenzene	ND	0.50	1	04/18/2017 12:39
1,1,1-Trichloroethane	ND	0.50	1	04/18/2017 12:39
1,1,2-Trichloroethane	ND	0.50	1	04/18/2017 12:39
Trichloroethene	ND	0.50	1	04/18/2017 12:39
Trichlorofluoromethane	ND	0.50	1	04/18/2017 12:39
1,2,3-Trichloropropane	ND	0.50	1	04/18/2017 12:39
Vinyl Chloride	ND	0.50	1	04/18/2017 12:39

Surrogates	REC (%)	Limits	
Dibromofluoromethane	105	70-130	04/18/2017 12:39
Toluene-d8	95	70-130	04/18/2017 12:39
4-BFB	82	70-130	04/18/2017 12:39

Analyst(s): KF

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-6R	**1704564-002A**	**Water**	**04/13/2017 13:20**	**GC10**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	50	100	04/18/2017 13:04
Bromochloromethane	ND	50	100	04/18/2017 13:04
Bromodichloromethane	ND	50	100	04/18/2017 13:04
Bromoform	ND	50	100	04/18/2017 13:04
Bromomethane	ND	50	100	04/18/2017 13:04
Carbon Tetrachloride	ND	50	100	04/18/2017 13:04
Chlorobenzene	ND	50	100	04/18/2017 13:04
Chloroethane	ND	50	100	04/18/2017 13:04
Chloroform	ND	50	100	04/18/2017 13:04
Chloromethane	ND	50	100	04/18/2017 13:04
2-Chlorotoluene	ND	50	100	04/18/2017 13:04
4-Chlorotoluene	ND	50	100	04/18/2017 13:04
Dibromochloromethane	ND	50	100	04/18/2017 13:04
1,2-Dibromo-3-chloropropane	ND	20	100	04/18/2017 13:04
1,2-Dibromoethane (EDB)	ND	50	100	04/18/2017 13:04
Dibromomethane	ND	50	100	04/18/2017 13:04
1,2-Dichlorobenzene	ND	50	100	04/18/2017 13:04
1,3-Dichlorobenzene	ND	50	100	04/18/2017 13:04
1,4-Dichlorobenzene	ND	50	100	04/18/2017 13:04
Dichlorodifluoromethane	ND	50	100	04/18/2017 13:04
1,1-Dichloroethane	ND	50	100	04/18/2017 13:04
1,2-Dichloroethane (1,2-DCA)	ND	50	100	04/18/2017 13:04
1,1-Dichloroethene	ND	50	100	04/18/2017 13:04
cis-1,2-Dichloroethene	**94**	50	100	04/18/2017 13:04
trans-1,2-Dichloroethene	ND	50	100	04/18/2017 13:04
1,2-Dichloropropane	ND	50	100	04/18/2017 13:04
1,3-Dichloropropane	ND	50	100	04/18/2017 13:04
2,2-Dichloropropane	ND	50	100	04/18/2017 13:04
1,1-Dichloropropene	ND	50	100	04/18/2017 13:04
cis-1,3-Dichloropropene	ND	50	100	04/18/2017 13:04
trans-1,3-Dichloropropene	ND	50	100	04/18/2017 13:04
Freon 113	ND	50	100	04/18/2017 13:04
Hexachlorobutadiene	ND	50	100	04/18/2017 13:04
Hexachloroethane	ND	50	100	04/18/2017 13:04
Methylene chloride	ND	50	100	04/18/2017 13:04
1,1,1,2-Tetrachloroethane	ND	50	100	04/18/2017 13:04
1,1,2,2-Tetrachloroethane	ND	50	100	04/18/2017 13:04

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-6R	**1704564-002A**	**Water**	**04/13/2017 13:20**	**GC10**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	**860**	50	100	04/18/2017 13:04
1,2,3-Trichlorobenzene	ND	50	100	04/18/2017 13:04
1,2,4-Trichlorobenzene	ND	50	100	04/18/2017 13:04
1,1,1-Trichloroethane	ND	50	100	04/18/2017 13:04
1,1,2-Trichloroethane	ND	50	100	04/18/2017 13:04
Trichloroethene	**150**	50	100	04/18/2017 13:04
Trichlorofluoromethane	ND	50	100	04/18/2017 13:04
1,2,3-Trichloropropane	ND	50	100	04/18/2017 13:04
Vinyl Chloride	ND	50	100	04/18/2017 13:04

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	04/18/2017 13:04
Toluene-d8	97	70-130	04/18/2017 13:04
4-BFB	78	70-130	04/18/2017 13:04

Analyst(s): KF

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-8	**1704564-003A**	**Water**	**04/13/2017 13:35**	**GC10**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	0.50	1	04/18/2017 13:44
Bromochloromethane	ND	0.50	1	04/18/2017 13:44
Bromodichloromethane	ND	0.50	1	04/18/2017 13:44
Bromoform	ND	0.50	1	04/18/2017 13:44
Bromomethane	ND	0.50	1	04/18/2017 13:44
Carbon Tetrachloride	ND	0.50	1	04/18/2017 13:44
Chlorobenzene	ND	0.50	1	04/18/2017 13:44
Chloroethane	ND	0.50	1	04/18/2017 13:44
Chloroform	ND	0.50	1	04/18/2017 13:44
Chloromethane	ND	0.50	1	04/18/2017 13:44
2-Chlorotoluene	ND	0.50	1	04/18/2017 13:44
4-Chlorotoluene	ND	0.50	1	04/18/2017 13:44
Dibromochloromethane	ND	0.50	1	04/18/2017 13:44
1,2-Dibromo-3-chloropropane	ND	0.20	1	04/18/2017 13:44
1,2-Dibromoethane (EDB)	ND	0.50	1	04/18/2017 13:44
Dibromomethane	ND	0.50	1	04/18/2017 13:44
1,2-Dichlorobenzene	ND	0.50	1	04/18/2017 13:44
1,3-Dichlorobenzene	ND	0.50	1	04/18/2017 13:44
1,4-Dichlorobenzene	ND	0.50	1	04/18/2017 13:44
Dichlorodifluoromethane	ND	0.50	1	04/18/2017 13:44
1,1-Dichloroethane	ND	0.50	1	04/18/2017 13:44
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	04/18/2017 13:44
1,1-Dichloroethene	ND	0.50	1	04/18/2017 13:44
cis-1,2-Dichloroethene	ND	0.50	1	04/18/2017 13:44
trans-1,2-Dichloroethene	ND	0.50	1	04/18/2017 13:44
1,2-Dichloropropane	ND	0.50	1	04/18/2017 13:44
1,3-Dichloropropane	ND	0.50	1	04/18/2017 13:44
2,2-Dichloropropane	ND	0.50	1	04/18/2017 13:44
1,1-Dichloropropene	ND	0.50	1	04/18/2017 13:44
cis-1,3-Dichloropropene	ND	0.50	1	04/18/2017 13:44
trans-1,3-Dichloropropene	ND	0.50	1	04/18/2017 13:44
Freon 113	ND	0.50	1	04/18/2017 13:44
Hexachlorobutadiene	ND	0.50	1	04/18/2017 13:44
Hexachloroethane	ND	0.50	1	04/18/2017 13:44
Methylene chloride	ND	0.50	1	04/18/2017 13:44
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/18/2017 13:44
1,1,2,2-Tetrachloroethane	ND	0.50	1	04/18/2017 13:44

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-8	**1704564-003A**	**Water**	**04/13/2017 13:35**	**GC10**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	**3.4**	0.50	1	04/18/2017 13:44
1,2,3-Trichlorobenzene	ND	0.50	1	04/18/2017 13:44
1,2,4-Trichlorobenzene	ND	0.50	1	04/18/2017 13:44
1,1,1-Trichloroethane	ND	0.50	1	04/18/2017 13:44
1,1,2-Trichloroethane	ND	0.50	1	04/18/2017 13:44
Trichloroethene	ND	0.50	1	04/18/2017 13:44
Trichlorofluoromethane	ND	0.50	1	04/18/2017 13:44
1,2,3-Trichloropropane	ND	0.50	1	04/18/2017 13:44
Vinyl Chloride	ND	0.50	1	04/18/2017 13:44

Surrogates	REC (%)	Limits	
Dibromofluoromethane	105	70-130	04/18/2017 13:44
Toluene-d8	95	70-130	04/18/2017 13:44
4-BFB	78	70-130	04/18/2017 13:44

Analyst(s): KF

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Angela Rydelius, Lab Manager

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"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-9	**1704564-004A**	**Water**	**04/13/2017 13:15**	**GC10**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	2.5	5	04/18/2017 14:25
Bromochloromethane	ND	2.5	5	04/18/2017 14:25
Bromodichloromethane	ND	2.5	5	04/18/2017 14:25
Bromoform	ND	2.5	5	04/18/2017 14:25
Bromomethane	ND	2.5	5	04/18/2017 14:25
Carbon Tetrachloride	ND	2.5	5	04/18/2017 14:25
Chlorobenzene	ND	2.5	5	04/18/2017 14:25
Chloroethane	ND	2.5	5	04/18/2017 14:25
Chloroform	ND	2.5	5	04/18/2017 14:25
Chloromethane	ND	2.5	5	04/18/2017 14:25
2-Chlorotoluene	ND	2.5	5	04/18/2017 14:25
4-Chlorotoluene	ND	2.5	5	04/18/2017 14:25
Dibromochloromethane	ND	2.5	5	04/18/2017 14:25
1,2-Dibromo-3-chloropropane	ND	1.0	5	04/18/2017 14:25
1,2-Dibromoethane (EDB)	ND	2.5	5	04/18/2017 14:25
Dibromomethane	ND	2.5	5	04/18/2017 14:25
1,2-Dichlorobenzene	ND	2.5	5	04/18/2017 14:25
1,3-Dichlorobenzene	ND	2.5	5	04/18/2017 14:25
1,4-Dichlorobenzene	ND	2.5	5	04/18/2017 14:25
Dichlorodifluoromethane	ND	2.5	5	04/18/2017 14:25
1,1-Dichloroethane	ND	2.5	5	04/18/2017 14:25
1,2-Dichloroethane (1,2-DCA)	ND	2.5	5	04/18/2017 14:25
1,1-Dichloroethene	ND	2.5	5	04/18/2017 14:25
cis-1,2-Dichloroethene	ND	2.5	5	04/18/2017 14:25
trans-1,2-Dichloroethene	ND	2.5	5	04/18/2017 14:25
1,2-Dichloropropane	ND	2.5	5	04/18/2017 14:25
1,3-Dichloropropane	ND	2.5	5	04/18/2017 14:25
2,2-Dichloropropane	ND	2.5	5	04/18/2017 14:25
1,1-Dichloropropene	ND	2.5	5	04/18/2017 14:25
cis-1,3-Dichloropropene	ND	2.5	5	04/18/2017 14:25
trans-1,3-Dichloropropene	ND	2.5	5	04/18/2017 14:25
Freon 113	ND	2.5	5	04/18/2017 14:25
Hexachlorobutadiene	ND	2.5	5	04/18/2017 14:25
Hexachloroethane	ND	2.5	5	04/18/2017 14:25
Methylene chloride	ND	2.5	5	04/18/2017 14:25
1,1,1,2-Tetrachloroethane	ND	2.5	5	04/18/2017 14:25
1,1,2,2-Tetrachloroethane	ND	2.5	5	04/18/2017 14:25

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMW-9	**1704564-004A**	**Water**	**04/13/2017 13:15**	**GC10**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	**75**	2.5	5	04/18/2017 14:25
1,2,3-Trichlorobenzene	ND	2.5	5	04/18/2017 14:25
1,2,4-Trichlorobenzene	ND	2.5	5	04/18/2017 14:25
1,1,1-Trichloroethane	ND	2.5	5	04/18/2017 14:25
1,1,2-Trichloroethane	ND	2.5	5	04/18/2017 14:25
Trichloroethene	ND	2.5	5	04/18/2017 14:25
Trichlorofluoromethane	ND	2.5	5	04/18/2017 14:25
1,2,3-Trichloropropane	ND	2.5	5	04/18/2017 14:25
Vinyl Chloride	ND	2.5	5	04/18/2017 14:25

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	04/18/2017 14:25
Toluene-d8	97	70-130	04/18/2017 14:25
4-BFB	77	70-130	04/18/2017 14:25

Analyst(s): KF

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FHSMW-10	**1704564-005A**	**Water**	**04/13/2017 11:05**	**GC18**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Bromobenzene	ND	0.50	1	04/18/2017 03:47
Bromochloromethane	ND	0.50	1	04/18/2017 03:47
Bromodichloromethane	ND	0.50	1	04/18/2017 03:47
Bromoform	ND	0.50	1	04/18/2017 03:47
Bromomethane	ND	0.50	1	04/18/2017 03:47
Carbon Tetrachloride	ND	0.50	1	04/18/2017 03:47
Chlorobenzene	ND	0.50	1	04/18/2017 03:47
Chloroethane	ND	0.50	1	04/18/2017 03:47
Chloroform	ND	0.50	1	04/18/2017 03:47
Chloromethane	ND	0.50	1	04/18/2017 03:47
2-Chlorotoluene	ND	0.50	1	04/18/2017 03:47
4-Chlorotoluene	ND	0.50	1	04/18/2017 03:47
Dibromochloromethane	ND	0.50	1	04/18/2017 03:47
1,2-Dibromo-3-chloropropane	ND	0.20	1	04/18/2017 03:47
1,2-Dibromoethane (EDB)	ND	0.50	1	04/18/2017 03:47
Dibromomethane	ND	0.50	1	04/18/2017 03:47
1,2-Dichlorobenzene	ND	0.50	1	04/18/2017 03:47
1,3-Dichlorobenzene	ND	0.50	1	04/18/2017 03:47
1,4-Dichlorobenzene	ND	0.50	1	04/18/2017 03:47
Dichlorodifluoromethane	ND	0.50	1	04/18/2017 03:47
1,1-Dichloroethane	ND	0.50	1	04/18/2017 03:47
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	04/18/2017 03:47
1,1-Dichloroethene	ND	0.50	1	04/18/2017 03:47
cis-1,2-Dichloroethene	ND	0.50	1	04/18/2017 03:47
trans-1,2-Dichloroethene	ND	0.50	1	04/18/2017 03:47
1,2-Dichloropropane	ND	0.50	1	04/18/2017 03:47
1,3-Dichloropropane	ND	0.50	1	04/18/2017 03:47
2,2-Dichloropropane	ND	0.50	1	04/18/2017 03:47
1,1-Dichloropropene	ND	0.50	1	04/18/2017 03:47
cis-1,3-Dichloropropene	ND	0.50	1	04/18/2017 03:47
trans-1,3-Dichloropropene	ND	0.50	1	04/18/2017 03:47
Freon 113	ND	0.50	1	04/18/2017 03:47
Hexachlorobutadiene	ND	0.50	1	04/18/2017 03:47
Hexachloroethane	ND	0.50	1	04/18/2017 03:47
Methylene chloride	ND	0.50	1	04/18/2017 03:47
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/18/2017 03:47
1,1,2,2-Tetrachloroethane	ND	0.50	1	04/18/2017 03:47

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Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Received:	4/13/17 16:30	**Extraction Method:**	SW5030B
Date Prepared:	4/18/17	**Analytical Method:**	SW8260B
Project:	365948; Foothill Square	**Unit:**	µg/L

Halogenated Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
FHSMW-10	**1704564-005A**	**Water**	**04/13/2017 11:05**	**GC18**	**137442**

Analytes	Result	RL	DF	Date Analyzed
Tetrachloroethene	ND	0.50	1	04/18/2017 03:47
1,2,3-Trichlorobenzene	ND	0.50	1	04/18/2017 03:47
1,2,4-Trichlorobenzene	ND	0.50	1	04/18/2017 03:47
1,1,1-Trichloroethane	ND	0.50	1	04/18/2017 03:47
1,1,2-Trichloroethane	ND	0.50	1	04/18/2017 03:47
Trichloroethene	ND	0.50	1	04/18/2017 03:47
Trichlorofluoromethane	ND	0.50	1	04/18/2017 03:47
1,2,3-Trichloropropane	ND	0.50	1	04/18/2017 03:47
Vinyl Chloride	ND	0.50	1	04/18/2017 03:47

Surrogates	REC (%)	Limits	
Dibromofluoromethane	106	70-130	04/18/2017 03:47
Toluene-d8	94	70-130	04/18/2017 03:47
4-BFB	85	70-130	04/18/2017 03:47

Analyst(s): KF

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"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Prepared:	4/17/17	**BatchID:**	137442
Date Analyzed:	4/17/17	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	365948; Foothill Square	**Sample ID:**	MB/LCS/LCSD-137442

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Bromobenzene	ND	0.50	-	-	-
Bromochloromethane	ND	0.50	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
Carbon Tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
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	0.50	-	-	-
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	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
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	-	-	-
1,1-Dichloropropene	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Freon 113	ND	0.50	-	-	-
Hexachlorobutadiene	ND	0.50	-	-	-
Hexachloroethane	ND	0.50	-	-	-
Methylene chloride	ND	0.50	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.50	-	-	-

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QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1704564
Date Prepared:	4/17/17	**BatchID:**	137442
Date Analyzed:	4/17/17	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	365948; Foothill Square	**Sample ID:**	MB/LCS/LCSD-137442

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.50	-	-	-
Vinyl Chloride	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	25.53		25	102	70-130
Toluene-d8	24.05		25	96	70-130
4-BFB	2.281		2.5	91	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Chlorobenzene	10.7	10.6	10	107	106	43-157	1.49	20
1,2-Dibromoethane (EDB)	9.99	9.57	10	100	96	44-155	4.33	20
1,2-Dichloroethane (1,2-DCA)	10.2	9.70	10	102	97	66-125	4.84	20
1,1-Dichloroethene	10.2	10.1	10	102	101	47-149	1.24	20
Trichloroethene	11.0	10.7	10	110	107	43-157	2.78	20
Surrogate Recovery								
Dibromofluoromethane	25.7	25.4	25	103	102	70-130	1.21	20
Toluene-d8	24.2	24.4	25	97	97	70-130	0	20
4-BFB	2.33	2.36	2.5	93	94	70-130	1.36	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1704564 **ClientCode: AEL**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Jeremy Smith
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
cc/3rd Party: jsanders@aeiconsultants.com;
PO: 130063
ProjectNo: 365948; 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: **04/13/2017**
Date Logged: **04/13/2017**

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
1704564-001	AMW-1	Water	4/13/2017 13:10	☐	A	A										
1704564-002	AMW-6R	Water	4/13/2017 13:20	☐	A											
1704564-003	AMW-8	Water	4/13/2017 13:35	☐	A											
1704564-004	AMW-9	Water	4/13/2017 13:15	☐	A											
1704564-005	FHSMW-10	Water	4/13/2017 11:05	☐	A											

Test Legend:

1	8010_W	2	PREDF REPORT	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

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.

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS
Client Contact: Jeremy Smith
Contact's Email: jasmith@aeiconsultants.com

Project: 365948; Foothill Square
Comments:

Work Order: 1704564
QC Level: LEVEL 2
Date Logged: 4/13/2017

☐ 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
1704564-001A	AMW-1	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	☐	4/13/2017 13:10	5 days	Present	☐	
1704564-002A	AMW-6R	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	☐	4/13/2017 13:20	5 days	Present	☐	
1704564-003A	AMW-8	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	☐	4/13/2017 13:35	5 days	Present	☐	
1704564-004A	AMW-9	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	☐	4/13/2017 13:15	5 days	Present	☐	
1704564-005A	FHSMW-10	Water	SW8260B (HVOCs List)	3	VOA w/ HCl	☐	4/13/2017 11:05	5 days	Present	☐	

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.

General COC

MAI Work Order # 1704564

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Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush | 2 Day Rush | 3 Day Rush | STD ● | Quote #
J-Flag / MDL | ESL | Cleanup Approved | Bottle Order #
Delivery Format: PDF ● | GeoTracker EDF ● | EDD | Write On (DW) | EQuIS

Report To: Jeremy Smith; Jonathan Sanders Bill To: AEI Consultants
Company: AEI Consultants
Email: jasmith@aeiconsultants.com; jsanders@aeiconsultants.com
Alt Email: Tele:
Project Name: Foothill Square Project #:365948
Project Location: 10700 MacArthur Blvd, Oakland CA PO # 130063
Sampler Signature: Nate Black

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	CVOC by 8260b
AMW-1	4/13/17	1310	3	GW	HCl	●
AMW-6R	"	1320	3	GW	HCl	●
AMW-8	"	1335	3	GW	HCl	●
AMW-9	"	1315	3	GW	HCl	●
~~FHS-MW-10~~ FHS-MW-10	4/13/17	1105	3	GW	HCl	●
~~FHS-MW-11~~			3	GW	HCl	●

Analysis Requested

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.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Comments / Instructions

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Nate Black	4/13/17	1630		4/13/17	1630

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other

Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 3.1 °C Initials JW

Page ___ of ___

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Sample Receipt Checklist

Client Name: **AEI Consultants**
Project Name: **365948; Foothill Square**

WorkOrder №: **1704564** Matrix: Water
Carrier: Client Drop-In

Date and Time Received **4/13/2017 16:30**
Date Logged: **4/13/2017**
Received by: Jena Alfaro
Logged by: Jena Alfaro

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	☐	NA ☐
Sample/Temp Blank temperature	Temp: 3.1°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 ☑

Comments: