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June 17, 2008

### GROUNDWATER MONITORING REPORT 1<sup>st</sup> Semester, 2008

10700 MacArthur Boulevard Oakland, California

AEI Project No. 261829 Toxics Case No. RO0002580

Prepared For

Jay-Phares Corporation Attn: John Jay 10700 MacArthur Boulevard, Suite 200 Oakland, CA 94605

Prepared By

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**ENVIRONMENTAL & ENGINEERING SERVICES** 

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June 17, 2008

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

Subject:Semiannual Groundwater Monitoring Report<br/>1st Semester, 2008<br/>10700 MacArthur Boulevard<br/>Oakland, California<br/>AEI Project No. 261829<br/>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 (Figure 1: Site Location Map). The documentation of groundwater quality beneath and around the site was performed 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 April 1, 2008.

#### **Site Description and Background**

The subject property (hereinafter referred to as the site or property) is located at 10700 MacArthur Boulevard (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, together totaling approximately 155,600 square feet. The are of concern is the former Youngs Cleaners, located on the north side of the property.

The site is situated in a mixed commercial and residential area of Oakland. The site is bound 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.

Construction of the shopping center began in the early 1960s. Additions to the original center continued through the 1970s, including the construction of a gas station at the southeastern corner in 1970. This gas station was operated by USA Petroleum which ceased operations and was eventually demolished in 1994. A current open leaking underground storage tank (LUST) case exists for this former gas station, the responsibility for which is with USA.

Between 1984 and 1995, Young's Cleaners, a dry-cleaning business, operated in one of the units of the shopping center, located at the southwestern end of the northern building (Figure 2). A release of PCE was discovered as part of an offsite investigation, which was later traced to Young's Cleaners. Below is a chronology of discovery, investigation, and mitigation of the release.

#### Preliminary Investigations

In August 1988, Kaldveer Associates performed a Preliminary Soil and Groundwater Quality Testing Program at the site. Fifteen soil borings were drilled to depths of 11.5 to 36.5 below ground surface (bgs) around the perimeter of the site. The investigation focused on past use of the site as a truck manufacturing facility, the then operating USA Gasoline Station on the southeast corner of the site, and an ARCO service station adjacent to the north west corner of the site. The result of the analytical program indicated the presence of hydrocarbons in the soil and groundwater in the northwest corner of the site, adjacent to the ARCO station.

WGR installed 5 groundwater monitoring wells (WGR-MW-1 to WGR-MW-5) on the shopping center property in January, 1989. Soil and groundwater samples confirmed the presence of petroleum hydrocarbons in the northwest corner of the site. Groundwater samples from well WGR-MW-2 and WGR-MW-3, contained low concentrations of 1,1-trichloroethane. Wells WGR-MW-1 through WGR-MW-3 and WGR-MW-5 were installed in what was described as the "shallow" groundwater, described as between 20 to 35 feet bgs. Well WGR-MW-4 was installed in what was described as the "deeper" groundwater zone, with the well slots from 25 to 45 feet bgs.

RESNA conducted several investigations of the ARCO service station between 1991 and 1993 to define the extent of the petroleum hydrocarbon release that occurred on that property. During their investigations, RESNA detected chlorinated volatile organic compounds (CVOCs) in several of their borings and wells. On March 23, 1993, the ACHCS requested that the vertical and lateral extent of PCE contamination, discovered on the shopping center by ARCO while investigating its release, be investigated by the shopping center owners.

#### Exploratory Excavation - 1994

In May 1994, Augeas performed an exploratory excavation within the Young's Cleaners location. Approximately 8 cubic yards of soil were removed from site of the coin operated dry cleaning machines. An area approximately 1.5 feet deep and 6 feet by 8 feet was excavated by the south wall of the facility. Augeas collected 4 soil samples (SB-1 through SB-4) from the floor and sidewalls of the shallow excavation which were analyzed by EPA method 8240. PCE was detected in these samples at concentrations ranging from 890 milligrams per kilogram (mg/kg) (SB-1) to

9,100 mg/kg (SB-2). Sample SB-2 was located about three feet directly below a floor drain that was shown by Augeas to be connected to the sanitary sewer.

In July 1994, the existing excavation was extended four feet to the west and deepened to about 4 feet bgs. On August 29, 1994, Augeas collected eight additional soil samples (H-1 through H-8) from floor and sidewalls of the excavation. PCE was reported at concentrations ranging from 1.4 mg/kg (H-2) to 5.0 mg/kg (H-3).

#### Site Characterization – 1994 to 1995

Between September and November 1994, Augeas drilled seven soil borings and three groundwater monitoring wells on the site. Boring B-1 was drilled to a depth of 5 feet bgs and borings B-2 through B-7 to depths of 21 to 25 feet bgs. One well AMW-1 was drilled near the back of Young's Dry Cleaners and two (AMW-2 and AMW-3) near the front of the facility.

Augeas reported PCE soil contamination in 5 of the soil borings (B-3 through B-7) and monitoring wells AMW-2 and AMW-3 at concentrations ranging from 0.012 mg/kg (B-3) to 90 mg/kg (AMW-2).

PCE was detected in groundwater samples from soil borings B-4 through B-6 at concentrations ranging from 870 micrograms per liter ( $\mu$ g/L) to 11,000  $\mu$ g/L. No chlorinated solvents were detected in the groundwater sample from well AMW-1. The groundwater sample from well AMW-2, located in front of the drycleaners, adjacent to the sanitary sewer line was reported to contain PCE, trichloroethylene (TCE), cis & trans-1,2-dichloroethylene (c-1,2-DCE), (t-1,2 –DCE), 1,1-DCE and c-1,3-DCP at concentrations of 35,000  $\mu$ g/L, 320  $\mu$ g/L, 110  $\mu$ g/L, 50  $\mu$ g/L, 8  $\mu$ g/L and 4.2  $\mu$ g/L, respectively. Total petroleum hydrocarbons as Stoddard solvent (TPHs) was also reported in the groundwater sample from AMW-2.

In March 1995, Augeas installed two additional wells, AMW-4 and MW-5. Wells AMW-6 through AMW-9 were installed in July through August 1995. Based on the investigations, Augeas concluded that the PCE contamination centered on the Young's Cleaners, and was caused by a release of solvents from the drycleaner and associated sanitary sewer line in front of the facility. They also concluded that the extent of soil contamination was not wide spread. Augeas recommended that the PCE affected soil be excavated, thereby removing the source. Augeas expected this to result in reduction of PCE and other contaminant concentrations in the groundwater over time.

#### Source Excavation – 1995 to 1996

Between October 1995 and January 1996, AEI excavated PCE contaminated soil from beneath the Young's Cleaners and adjacent tenant spaces and around the sanitary sewer. Upon removal, the excavation was backfilled with clean imported fill. The lateral and vertical extent of the contamination was found to be greater than initially estimated by Augeas. Augeas initially recommended removal of soil with PCE concentrations in excess of 1.0 mg/kg. During excavation,

PCE dechlorination products were identified for the first time in soil and the clean-up goal was revised to a total VOC concentration of 1.0 mg/kg. The resulting excavation extended into adjacent tenant spaces and required the removal of approximately 2,500 cubic yards of affected soil. During excavation activities, wells AMW-2 and AMW-3 were properly abandoned and destroyed.

This action was successful in removing a significant volume of highly impacted soil from the source area. However, several areas with residual total VOC concentrations above the 1.0 mg/kg goal remained at the final extent of excavation: 1) The northwest corner of the Young's Cleaners space, where total VOCs were 1.8 mg/kg and 1.9 mg/kg at depths of 4 and 8 feet respectively; 2) beneath the breezeway west of the former cleaners where total VOCs were 2.5 mg/kg at a depth of 5 feet; and 3) beneath the breezeway, in front of and east of the former location of Young's Cleaners (near AMW-3), where total VOC of 1.4 mg/kg were reported in the boring at a depth of 25.5 feet bgs (outside of the extent of the excavation).

The excavated soil was spread over the southeaster corner of the property. In February 1996, ten soil samples were collected by AEI from the stockpile and analyzed for VOCs to evaluate baseline concentrations in the stockpile. PCE was detected in these samples at concentrations ranging from ND<5.0  $\mu$ g/kg to 380  $\mu$ g/kg. TCE was detected in three samples at concentrations ranging from 11  $\mu$ g/kg to 38  $\mu$ g/kg. No other VOCs were detected in the stockpile.

The soil stockpile was tilled between February 1996 and January 1997. In January 1997 and again in May 1999, stockpile sampling occurred. During the May 1999 sampling, PCE was only detected in one of eight samples, at 28  $\mu$ g/kg. Based on the sampling data, limited reuse of the soil was approved.

#### Additional Groundwater Investigation and Risk Evaluation

To assess potential offsite migration of PCE in the groundwater, PES Environmental performed a preliminary investigation consisting of a CPT survey and HydroPunch <sup>TM</sup> sampling of the groundwater. The survey consisted of obtaining CPT measurements at nine locations (HP-1 through HP-9), to depths of up to 60 feet. Following the collection of the CPT data, water samples were collected from HydroPunch <sup>TM</sup> borings located within several feet of the CPT locations.

In the "shallow" zone, groundwater samples could not be collected from drilling locations HP-1, HP-3, HP-5 HP-6 and HP-9. Although, the CPT logs indicated that the silts of the "shallow" aquifer were saturated and monitoring wells in this interval are productive, the low transmissivity of the silts and clays prevented groundwater sample collection in this shallow zone using this sampling technique. PCE was only detected in groundwater at location HP-7, at 230  $\mu$ g/L. No PCE has been detected in the "shallow" zone in offsite borings.

In the "deep" groundwater zone, PCE was detected in borings HP-0, HP-1, HP-6 and HP-9 at concentrations of 440  $\mu$ g/l, 20  $\mu$ g/L, 40  $\mu$ g/L, and 25  $\mu$ g/L, respectively. This data indicated that although PCE had been detected at the ARCO station at concentrations up to 2,600  $\mu$ g/L, only low

concentrations of PCE were present in the "deep" groundwater zone west of MacArthur Boulevard and west toward 106<sup>th</sup> Avenue.

PES concluded that the PCE plume had not migrated substantially off site and was stable. They attributed the stability of the plume primarily to natural attenuation. PCE dechlorination products were observed, including TCE and cis- and trans- 1,2-DCE.

An evaluation of risk to human health via migration of contaminant vapors into the occupied building spaces was documented in the February 15, 1996 report prepared by PES. The numerical evaluation modeled the indoor concentrations of the site contaminants (PCE, TCE, 1,1-DCE, 1,2-DCE, cis- and trans-) using residual contaminant concentrations in soil. The modeled indoor air contaminant concentrations were below their respective Preliminary Remediation Goals (PRGs) (US EPA Region IX, 1995) and, therefore, it was concluded that the concentrations of remaining contaminants in the soil did not pose a significant threat to human health. This finding was concurred with by the ACHCS and Regional Water Quality Control Board (RWQCB) in letters dated March 26, 1996 and March 21, 1996, respectively.

Based on the findings of the groundwater investigation, PES recommended that two additional down gradient "sentry" wells be installed to monitor the down gradient edge of the groundwater plume. In July 1997, these two wells (FHS-MW-10 and FHS-MW-11) were drilled and installed at depths of 54.5 and 62.5 feet bgs, respectively. Sampling of these wells began in September 1997. During subsequent groundwater monitoring, PCE was detected in well FHS-MW-10 and FHS-MW-11 at maximum concentrations of 18  $\mu$ g/L and 12  $\mu$ g/L, respectively. Monitoring continued on a roughly semi-annual basis through the present.

#### Additional Investigation & Site Remediation Planning–2006 to 2008

On October 11 through October 13, 2006, two soil borings (SB-1 and SB-2) and a total of seventeen (17) soil gas probes (VB-1 through VB-17), each with a shallow boring as well as a deep boring, were advanced by AEI. The investigation was performed at the request of the ACHCS to evaluate the presence of vapor phase contaminants within and around the release area and the possibility of contaminant vapor intrusion. In addition, a groundwater monitoring and sampling event for the existing monitoring well network was performed at this time.

Results of soil vapor sample analyses indicate the presence of subsurface vapor phase contaminants, include PCE, TCE, cis-1,2 DCE, and vinyl chloride. The highest concentrations detected were in the area of the former excavation of impacted soil, likely the result of low concentrations of residual contaminants that remained upon completion of the excavation activities. Vapor phase contaminant concentrations decrease significantly away from the former release area. The data suggests that vapor phase migration along the onsite utility corridor has not occurred.

Following review of this 2006 report by ACHCS, it was determined that site mitigation activities would be necessary to reduce the threat of vapor intrusion from shallow soil vapors from

entering the existing buildings at the site, however, an additional soil vapor investigation was needed to further characterize the extent of vapor phase impact prior to finalization of a remedial approach for the residual impact. Subsequently on June 25, 2007, AEI performed the additional soil vapor investigation to further define the extent of the PCE release from the former Young's Cleaners. A total of eight soil gas samples were collected from five additional probe locations to the northeast of the former release area, where previous investigations had been limited. Based on the analyses of the eight additional soil gas samples, it was determined that PCE and related contaminants (TCE, c-1,2 DCE, t-1,2 DCE, and VC) have not spread northwest of the release area beneath the existing building. Therefore it was determined that the extent of the contamination is confined to non-detectable concentrations to the east, north, and northwest of the former Young's Cleaners.

On November 20, 2007, AEI submitted a *Site Mitigation Plan* which contained a proposed mitigation plan for the site. Following a county review of the proposal in a letter dated January 10, 2008, site mitigation plans were modified in AEI's *Work Plan for Pilot Study* dated March 7, 2008. Following review of the AEI's work plan, the ACHCS issued a letter dated April 10, 2008 which requested further investigation of the soil vapor beneath the site. A work plan addendum was submitted in May 2008, and the work plan was subsequently approved in a letter dated May 16, 2008. The remainder of this report documents the activities and results of the recent groundwater sampling event.

#### **Summary of Activities**

On April 1, 2008, AEI gauged the groundwater levels in each of the thirteen active groundwater monitoring wells at the site. Groundwater samples were collected from eleven of the wells (AMW-1, AMW-4, AMW-5, AMW-6, AMW-8, AMW-9, MW-6, FHS MW-10, FHS MW-11, MW-7, and WGR MW-4) in accordance with the approved sampling schedule. 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 prior to sampling with an electric water level indicator. The wells were then purged of at least three well volumes using a battery powered submersible pump. Field data sheets are included in Appendix A.

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

Groundwater samples were collected from each well to be sampled into three 40 ml volatile organic analysis (VOA) vials. The samples were capped so that neither head space nor air bubbles were visible within the sample containers. Samples were labeled with unique identifiers, stored over water ice, and placed under chain of custody. The samples were transported to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644).

#### **Field Results**

Generally, the wells at the site are categorized as being screened either in a shallow water bearing zone or a deeper water bearing zone. Shallow zone wells (AMW-1, AMW-4, AMW-5, AMW-6, WGR MW2, WGR MW3, and MW-7) are screened from approximately 15 to 35 feet below ground surface (bgs), and deeper wells (AMW-8, AMW-9, WGR MW4, MW-6, and FHS MW-10 and FHS MW-11) are generally in the 35 to 60 feet bgs range. Screen intervals, where known, are presented in Table 1.

Groundwater levels in the shallow aquifer ranged from 38.91 to 53.30 feet above mean sea level (amsl) on April 1, 2008. Groundwater was determined to flow to the west at a hydraulic gradient of 0.036 feet per foot, both consistent with previous episodes. Groundwater levels in the deeper, apparently confined/semi-confined aquifer, ranged from 28.04 to 47.06 feet above msl on April 1, 2008. Groundwater flow in the deep aquifer was toward the southwest at a hydraulic gradient of 0.037 feet per foot, consistent with previous findings.

Groundwater measurement data are summarized in Table 1. The groundwater elevation contours are shown in Figures 3 and 4. Refer to Appendix A for Groundwater Monitoring Well Field Sampling Forms.

#### **Groundwater Quality**

The highest concentrations of PCE, trichloroethylene (TCE), and cis-1,2 dichloroethylene (cis-1,2 DCE) were again detected in the groundwater sample taken from shallow well AMW-6 (140  $\mu$ g/L, 24  $\mu$ g/L, and 39  $\mu$ g/L respectively). The concentrations of VOCs in this well are significantly lower then historical concentrations, however, relatively similar to concentrations detected during the last two semester events. The highest concentration of PCE in the deeper zone was found in well AMW-9 at 130  $\mu$ g/L.

A summary of groundwater quality data, including historical results, is presented in Table 2. Laboratory results and chain of custody documents are included in Appendix B. Refer to Figure 5 for a summary of VOC concentrations in the wells sampled during this event.

#### Summary

In general, chlorinated VOC concentrations beneath the site appear relatively stable with the exception of a noticeable decrease in concentrations in well MW-6. AEI received an approval from the ACHCSA in a letter dated May 16, 2008 to complete additional soil vapor investigation activities and commence pilot testing activities at the site. The additional soil vapor investigation was completed on May 23, 2008 and details of the investigation will be included in the report due September 16, 2008. AEI plans to begin construction activities associated with the pilot test in the near future. The monitoring well network will continue to be sampled by AEI

in accordance with the approved sampling schedule, with the next sampling event scheduled during October 2008.

#### **Report Limitations and Signatures**

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of 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 required 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 construction 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 either of the undersigned at (925) 944-2899.

Sincerely, AEI Consultants

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Jeremy Smith Project Manager

#### Figures

Figure 1	Site Location Map
Figure 2	Extended Site Map
Figure 3	Groundwater Elevation Map - Shallow Wells
Figure 4	Groundwater Elevation Map – Deep Wells
Figure 5	Groundwater Analytical Data

#### Tables

Table 1	Groundwater Level Data
And a	

 Table 2
 Groundwater Sample Analytical Data

#### Appendices

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

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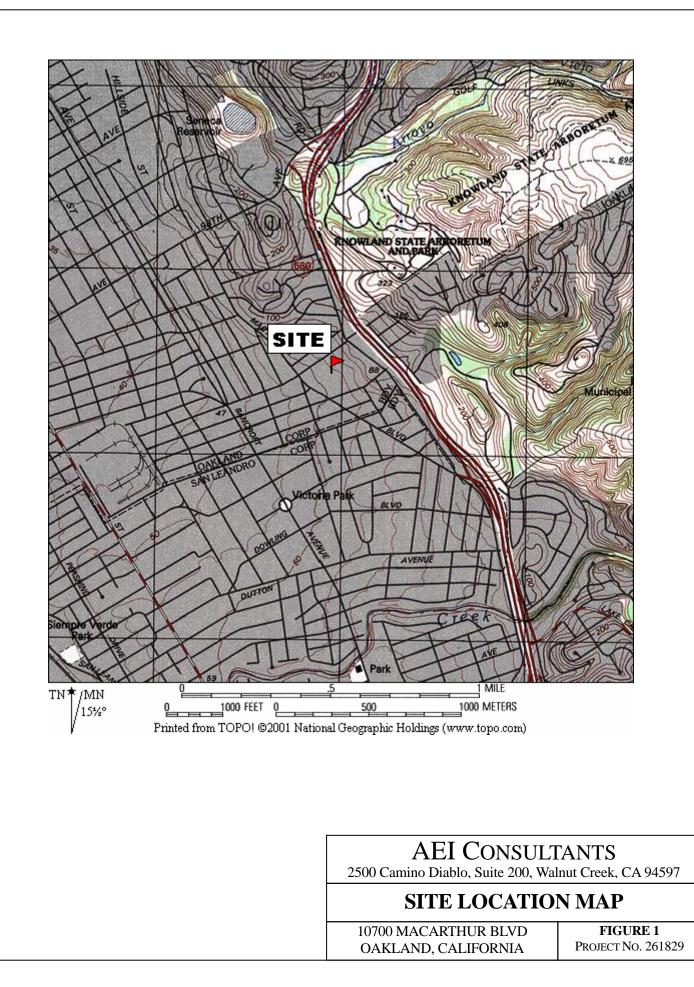
RESNA, 1991 to 1993. Investigations for ARCO (multiple and partial reports)

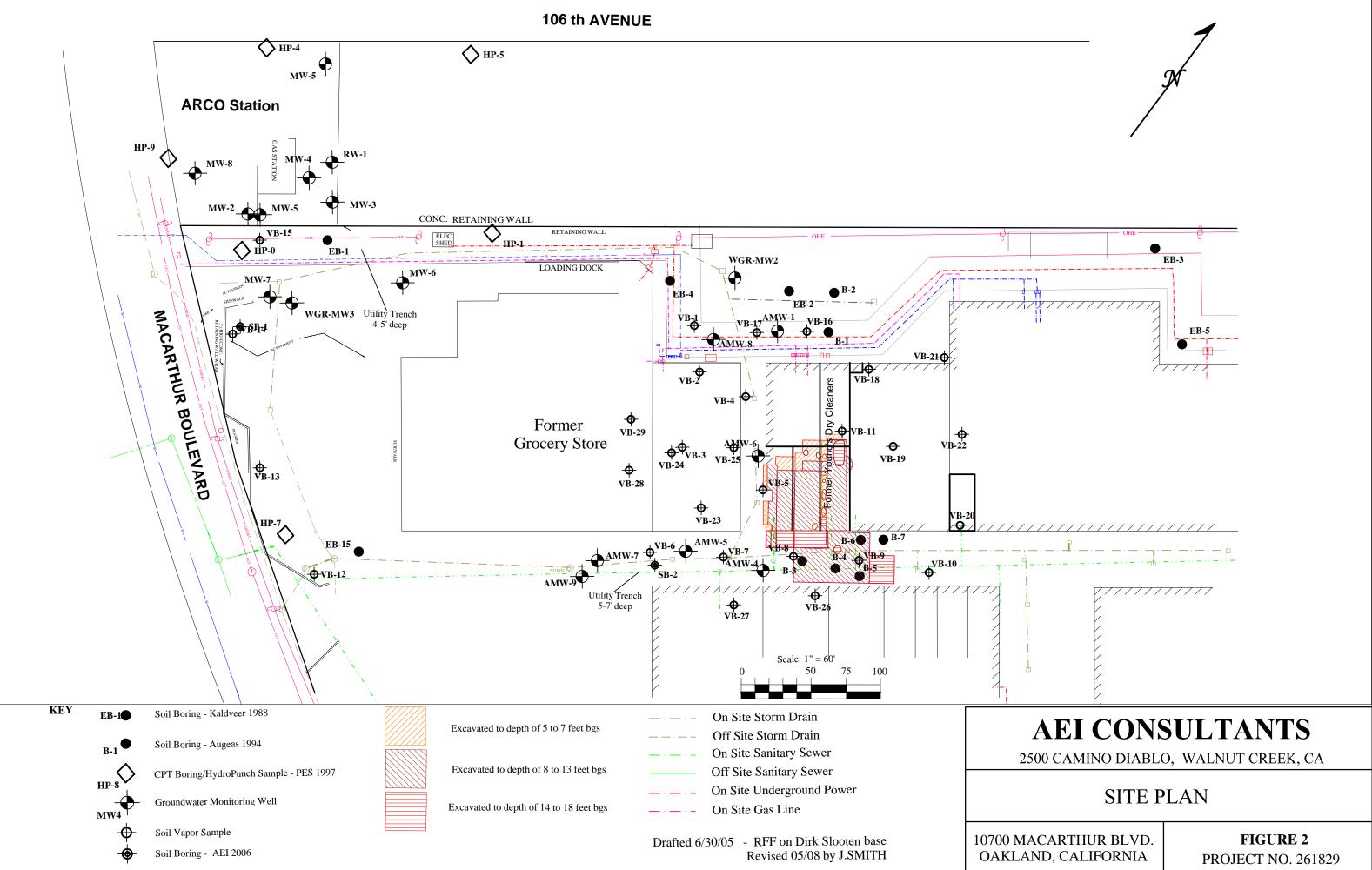
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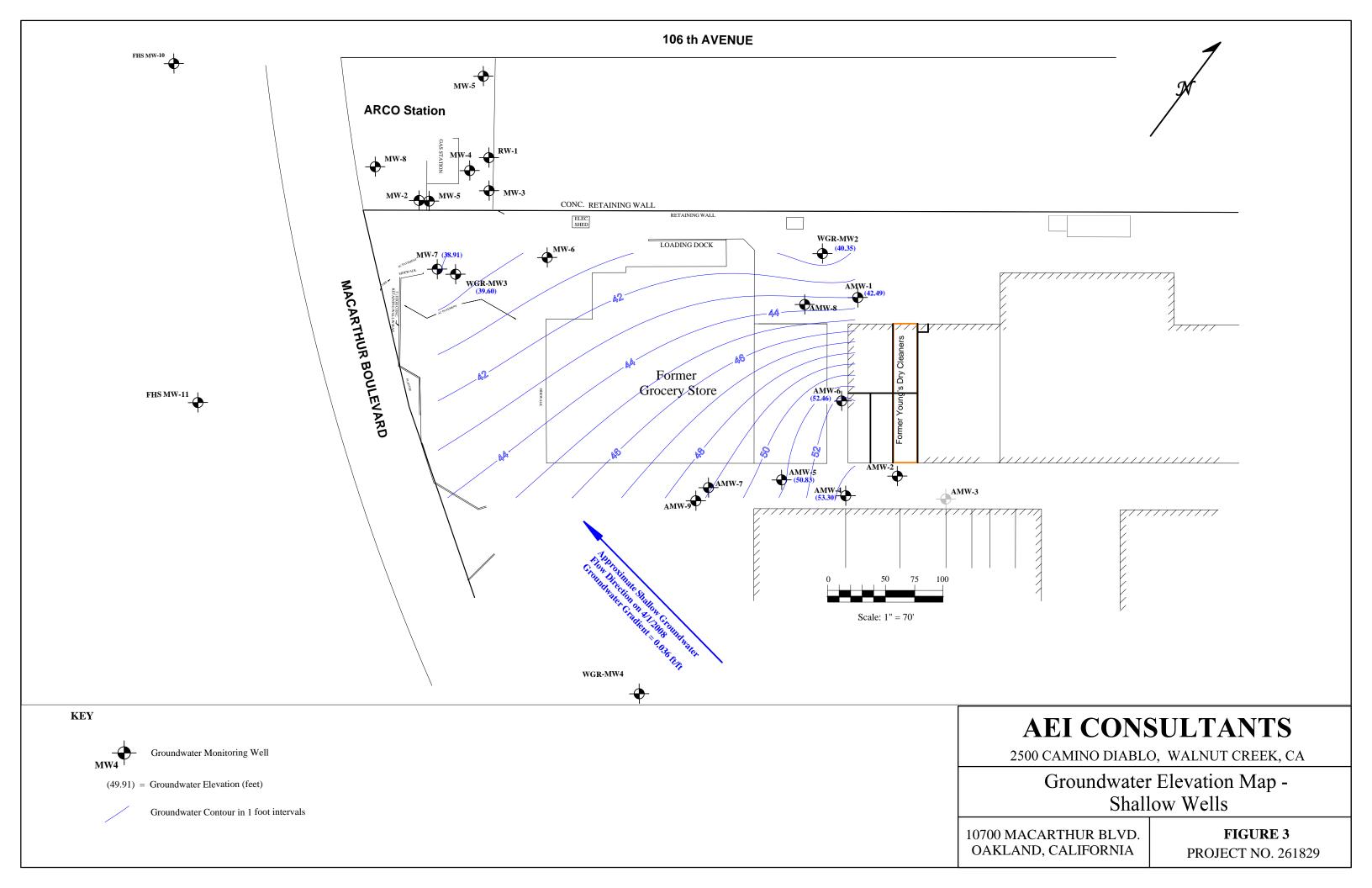
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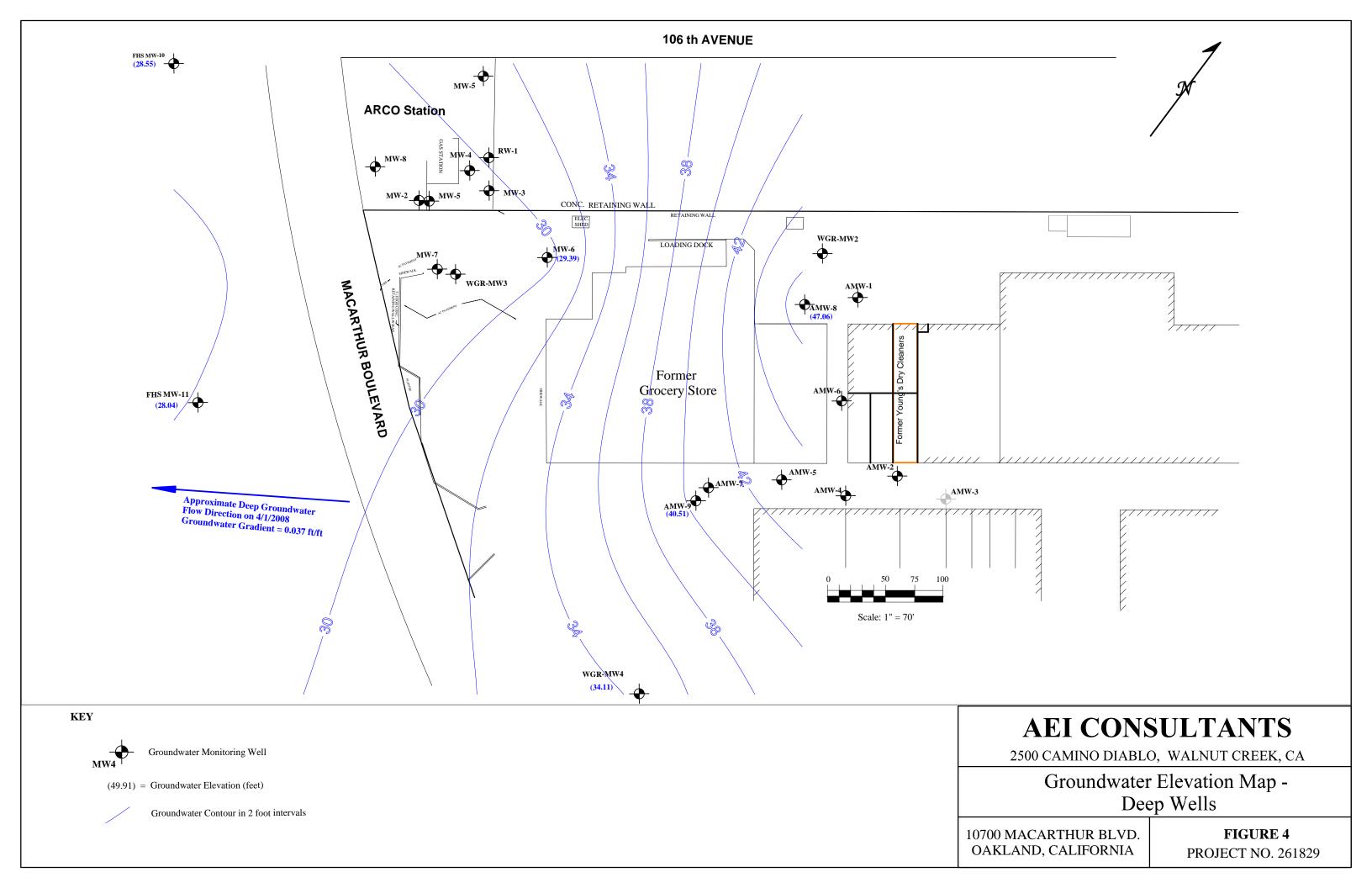
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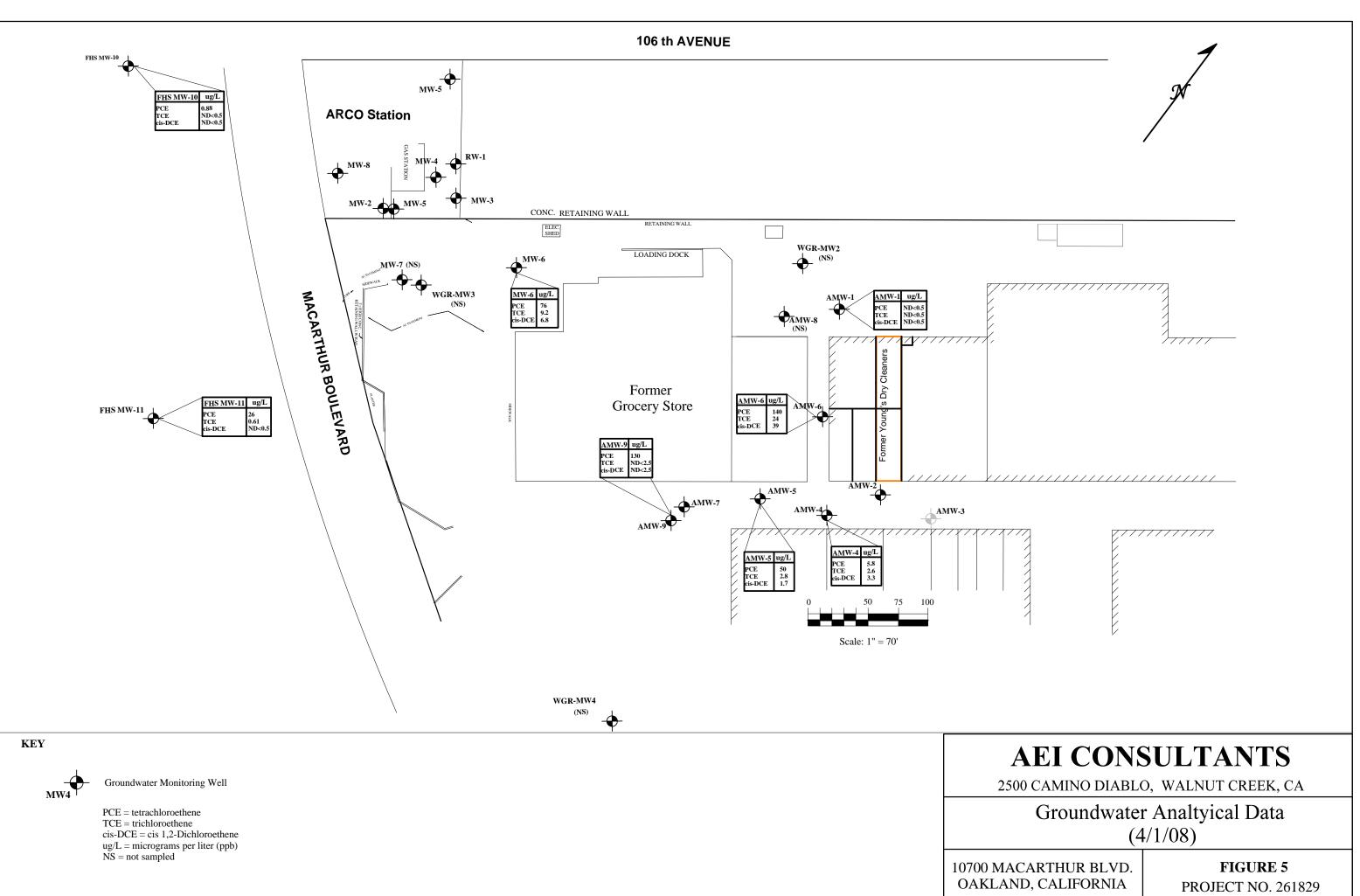
FIGURES











TABLES

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

		o wiacArthur Divu.,	Well	Depth	Groundwater
Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Elevation (ft msl)	to Water (ft)	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
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 4/1/2008		64.79 <b>64.79</b>	12.64 <b>11.49</b>	52.15 53.30
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
AMW-6	1/29/1999	Unknown	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
AMW-7 (Shallow)	1/29/1999 5/5/1999	Unknown	64.24 Well (	14.91 Covered during constu	49.33 arction
		17.1		-	
AMW-8	1/29/1999	Unknown	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 64.55	21.54	43.01 48.5
	10/17/2006 5/3/2007		64.55 64.55	16.05 23.01	48.5 41.54
	10/17/2007		64.55	18.34	46.21
	4/1/2008		64.55	17.49	40.21
L				>	*

		Table 1: Co	Well	Donth	Groundwate
Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Elevation (ft msl)	Depth to Water (ft)	Elevation (ft msl)
(Aquiter zone)	Date	(It bgs)	(It list)	(11)	(it iiisi)
AMW-9	1/29/1999	Unknown	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
			63.48	23.00	40.48
	3/25/2003		63.48	23.80	
	10/2/2003		63.48	23.07	39.68 40.41
	10/17/2006		63.48		
	5/3/2007			23.17	40.31
	10/17/2007		63.48	24.97	38.51
	4/1/2008		63.48	22.97	40.51
WGR MW-2 (Shallow)	1/29/1999 5/5/1999	23-28	63.18 63.18	23.41 21.41	39.77 41.77
(onuriow)	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	39.77
				23.09	
	3/12/2002		63.18	24.69	41.32
	9/27/2002		63.18		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
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
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
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
	10/17/2007		J4.JT	41.11	24.05

	Table 1: Continued							
			Well	Depth	Groundwater			
Well ID		Screen Interval	Elevation	to Water	Elevation			
(Aquifer zone)	Date	(ft bgs)	(ft msl)	( <b>ft</b> )	(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			
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			
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			

Notes:

All well elevations are measured from the top of casing not from the ground surface. ft msl = feet above mean sea level

# Table 2Groundwater Sample Analytical Data10700 MacArthur Blvd., Oakland, California

Well	D (		cis 1,2 DCE	trans 1,2 DCE	PCE	TCE	VHCs*
(aguifer zone)	Date	Consultant	μg/L	μg/L	μg/L	μg/L	μg/L
AMW-1	3/23/95	Augeus	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5
(shallow - 29)	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< td=""></rl<>
	5/2/07	AEI	ND<0.5	ND<0.5	ND<0.5	0.69	ND <rl< td=""></rl<>
	10/17/07	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
	4/1/08	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
AMW-4	5/15/95	Augeus	NR	ND<50	2400	ND<50	NR
(shallow - 25)	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< td=""></rl<>
	5/3/07	AEI	2.7	ND<0.5	5.1	1.2	ND <rl**< td=""></rl**<>
	10/17/07	AEI	4.0	ND<0.5	6.2	ND<0.5	ND <rl< td=""></rl<>
	4/1/08	AEI	3.3	ND<0.5	5.8	2.6	0.85**
AMW-5	5/15/95	Augeus	NR	ND<0.5	1.2	ND<0.5	NR
(shallow - 30)	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< td=""></rl<>
	5/3/07	AEI	0.91	ND<0.5	42	2.0	ND <rl< td=""></rl<>
	10/17/07	AEI	1.2	ND<0.5	42	2.0	ND <rl< td=""></rl<>
	10/17/07 4/1/08	AEI AEI	1.2 1.7	ND<0.5 ND<0.5	42 50	2.0 2.8	ND <rl< td=""></rl<>

Well			cis 1,2 DCE	trans 1,2 DCE	PCE	TCE	VHCs*
(aguifer zone)	Date	Consultant	μg/L	μg/L	μg/L	μg/L	μg/L
AMW-6	9/13/95	Augeus	NR	ND<25	930	ND<25	NR
(shallow - 25)	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<25 ND<17
		AEI	94				
	3/25/2003			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< td=""></rl<>
	5/3/2007	AEI	32	ND<5.0	120	22	ND <rl< td=""></rl<>
	10/17/2007	AEI	48	8.4	140	27	ND <rl<sup>2</rl<sup>
	4/1/2008	AEI	39	6.2	140	24	ND <rl< td=""></rl<>
AMW-7	9/13/95	Augeus	NR	ND<25	2350	340	NR
(shallow)	4/16/96	PES	2200	60	2300	500	NR
(shanow)	7/17/96	PES	2100	ND<30	2300	530	NR
	10/23/96	PES		50		610	NR
			3100		3400		
	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 Cov	ered During Co	nstruction	
AMW-8	9/13/95	Augeus	_	ND<25	95	ND<25	ND<25
(deep - 45)	4/16/96	PES	ND<0.5	ND<0.5	0.8	ND<0.5	ND<0.5
(uccp - 45)	7/17/96	PES	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5
		PES	ND<0.5		ND<0.5	ND<0.5	
	10/23/96			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< td=""></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< td=""></rl<>
	4/1/08	AEI	NS	NS	NS	NS	NS
AMW-9	9/13/95	Augeus	NR	ND<25	170	ND<25	NR
(deep - 54)	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<1.0
	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< td=""></rl<>
	5/3/07	AEI	ND<2.5	ND<2.5	86	ND<2.5	ND <rl< td=""></rl<>
	10/17/07	AEI	ND<2.5	ND<2.5	130	ND<2.5	ND <rl< td=""></rl<>

Well (aguifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE μg/L	РСЕ µg/L	TCE μg/L	VHCs* µg/L
FHS MW-10	10/9/97	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NR
(deep - 52)	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	ND<0.5	ND <0.5	NS NS	ND S	ND<0.5
	3/12/02	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	AEI	ND<0.5 NS	ND<0.5 NS	ND<0.5 NS	ND<0.5 NS	ND<0.5 NS
	3/25/03	AEI	1.7	ND<1.0	18	2.5	5.0**
			1.7 ND<0.5				
	10/6/03	AEI		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< td=""></rl<>
	5/3/2007 1	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
	10/17/07	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
	4/1/08	AEI	ND<0.5	ND<0.5	0.88	ND<0.5	ND <rl< td=""></rl<>
FHS MW-11	9/29/97	PES	ND<0.5	ND<0.5	4	ND<0.5	NR
(deep 64.5)	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<1	13	0.88	4.0** 1.0***
	10/2/03	AEI	0.78	Well Inac		0.88	4.0*** 1.0****
	10/2/05	AEI	ND <0.5	ND<0.5	20	ND<0.5	ND <rl< td=""></rl<>
			ND<0.5				
	5/3/2007 1	AEI	ND<0.5	ND<0.5	25	1.1	ND <rl< td=""></rl<>
	10/17/07 4/1/08	AEI AEI	ND<0.5 ND<0.5	ND<0.5 ND<0.5	31 26	0.71 <b>0.61</b>	ND <rl ND<rl< td=""></rl<></rl 
MW-6	3/11/95	EMCON	ND<20	ND<0.5	1300	ND<20	NR
(deep 48.69)	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<20
	3/25/03	AEI	2.6	ND<2.5	49	3.8	ND<12 ND<2.5
	10/2/03	AEI	2.0	ND<2.3 ND<5.0	49 340	5.8 21	ND<2.3 ND<5.0
	10/17/06	AEI	16	ND<5.0	320	18	ND <rl< td=""></rl<>
	5/3/07	AEI	0.92	ND<0.5	39 210	2.1	ND <rl< td=""></rl<>
	10/17/07	AEI	10 6.8	ND<5.0 <b>ND&lt;1.7</b>	310 76	18	ND <rl< td=""></rl<>
	4/1/08	AEI				9.2	ND <rl< td=""></rl<>

Well (aguifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE μg/L	РСЕ µg/L	TCE µg/L	VHCs* µg/L
<b>MW-7</b>	3/11/95	EMCON	NS	NS	NS	NS	NS
(shallow - 38)	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****< td=""></rl****<>
	5/3/07	AEI	NS	NS	NS	NS	NS
	10/17/07	AEI	ND<10	ND<10	ND<10	ND<10	ND <rl< td=""></rl<>
	4/1/08	AEI	NS	NS	NS	NS	NS
WGR MW-2	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
(Shallow)	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
WGR MW-3	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
(Shallow)	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
WGR MW-4	4/16/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
(deep)	7/17/96	PES	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
· · F /	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< td=""></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< td=""></rl<>
	4/1/08	AEI	NS	NS	NS	NS	NS

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 laboratroy without letters FHS as prefix

 $^{2}$  = Vinyl Chloride detected at a concentration of 1.9 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 $\mu g/L =$ micrograms per liter (parts per billion) Tetrachloroethene (PCE) Trichloroethene (TCE)

### **APPENDIX** A

#### GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS

#### Monitoring Well Number: AMW-1

Project	Name:	Foothill Square	Date of Sampling: 4/1/2008
Job N	umber:	261829	Name of Sampler: A. Nieto
Project A	ddress:	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2			
Wellhead Condition	ОК	<b>•</b>		
Elevation of Top of Casing (feet above msl)		64.51		
Depth of Well		45.00		
Depth to Water (from top of casing)	22.02			
Water Elevation (feet above msl)	42.49			
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)	11.0			
Actual Volume Purged (gallons)	11.0			
Appearance of Purge Water	Dark Brown, clearing quickly			
Free Product Present?	? na Thickness (ft): -			

GROUNDWATER SAMPLES							
Number of Sampl	es/Container S	Size		3-VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
12:08	1	19.12	7.07	1677	3.60	16.9	Clear
12:09	2	19.13	7.12	1320	5.47	35.8	Clear
12:10	3	19.21	7.02	1774	3.17	43.3	Clear
12:12	5	19.27	7.02	1760	2.31	39.4	Clear
12:14	7	19.28	7.05	1700	2.06	32.6	Clear
12:16	9	19.30	7.05	1704	2.02	32.0	Clear
	11	19.31	7.06	1704	2.00	31.1	Clear

#### Monitoring Well Number: AMW-4

ſ	Project Name:	Foothill Square	Date of Sampling: 4/1/2008
	Job Number:	261829	Name of Sampler: A. Nieto
	Project Address:	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2			
Wellhead Condition	ОК	<b>•</b>		
Elevation of Top of Casing (feet above msl)		64.79		
Depth of Well		25.00		
Depth to Water (from top of casing)	11.49			
Water Elevation (feet above msl)	53.30			
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)		6.5		
Actual Volume Purged (gallons)	7.0			
Appearance of Purge Water	Initially dark, clearing at less then 1 gallon			
Free Product Present?	na	Thickness (ft): -		

<b>GROUNDWATER SAMPLES</b>
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Number of Samples/Container Size				3 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
10:28	1	18.72	6.97	1683	2.02	-47.6	Clear
10:29	2	19.27	6.92	1684	1.50	-54.0	Clear
10:30	3	19.40	6.92	1644	1.41	-53.1	Clear
10:31	4	19.48	6.92	1671	1.32	-44.5	Clear
10:32	5	19.48	6.92	1658	1.30	-42.5	Clear
10:33	6	19.50	6.92	1642	1.28	-41.7	Clear
10:34	7	19.51	6.92	1655	1.29	-40.2	Clear

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

Sewer odor present

#### Monitoring Well Number: AMW-5

Project Name	Foothill Square	Date of Sampling: 4/1/2008
Job Number	261829	Name of Sampler: A. Nieto
Project Address	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2			
Wellhead Condition	ОК	<b>•</b>		
Elevation of Top of Casing (feet above msl)	64.97			
Depth of Well		30.00		
Depth to Water (from top of casing)	14.14			
Water Elevation (feet above msl)	50.83			
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)	7.6			
Actual Volume Purged (gallons)	8.0			
Appearance of Purge Water	Initially light brown, clears at 1.5 gallons			
Free Product Present?	? na Thickness (ft): -			

GROUNDWATER SAMPLES	5
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Number of Samples/Container Size				3 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
10:43	1	19.07	6.86	1781	1.68	60.6	Light Brown
10:44	2	18.78	6.84	1768	1.76	61.2	Clear
10:45	3	18.99	6.82	1783	1.62	61.8	Clear
10:46	4	19.03	6.82	1785	1.61	61.7	Clear
10:47	5	19.11	6.82	1789	1.47	60.7	Clear
10:48	6	19.19	6.82	1795	1.44	59.9	Clear
10:50	8	19.26	6.81	1805	1.38	59.1	Clear

#### Monitoring Well Number: AMW-6

ſ	Project Name:	Foothill Square	Date of Sampling: 4/1/2008
	Job Number:	261829	Name of Sampler: A. Nieto
	Project Address: 10700 MacArthur Blvd., Oakland		

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2			
Wellhead Condition	ОК	<b>_</b>		
Elevation of Top of Casing (feet above msl)		65.10		
Depth of Well		25.00		
Depth to Water (from top of casing)	12.64			
Water Elevation (feet above msl)	52.46			
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)	5.9			
Actual Volume Purged (gallons)	6.0			
Appearance of Purge Water	clears quickly			
Free Product Present?	? na Thickness (ft): -			

GROUNDWATER	SAMPLES
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Number of Sample		3 VOAs					
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
10:03	1	18.16	7.00	1852	4.27	93.0	Clear
10:04	2	18.10	6.92	1854	2.71	87.1	Clear
10:05	3	18.40	6.91	1876	2.45	83.5	Clear
10:06	4	18.52	6.90	1877	2.25	81.6	Clear
10:07	5	18.64	6.90	1872	1.79	77.5	Clear
10:08	6	18.75	6.88	1878	1.64	72.5	Clear

#### Monitoring Well Number: AMW-8

Project	Name:	Foothill Square	Date of Sampling: 4/1/2008
Job N	umber:	261829	Name of Sampler: A. Nieto
Project A	ddress:	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)	17.49				
Water Elevation (feet above msl)	47.06				
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)	Not sampled				
Appearance of Purge Water					
Free Product Present?	? na Thickness (ft): -				

#### **GROUNDWATER SAMPLES**

Number of Samples/Container Size							
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments

Well not sampled

#### Monitoring Well Number: AMW-9

Project	Name:	Foothill Square	Date of Sampling: 4/1/2008
Job N	umber:	261829	Name of Sampler: A. Nieto
Project A	ddress:	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2				
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)	63.48				
Depth of Well		54.30			
Depth to Water (from top of casing)	22.97				
Water Elevation (feet above msl)	40.51				
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)	15.0				
Actual Volume Purged (gallons)	15.0				
Appearance of Purge Water	Brown, clearing at 2 gallons				
Free Product Present?	? na Thickness (ft): -				

GROUNDWATER SAMPLES								
Number of Sam	ples/Container S	Size		3 VOAs				
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments	
9:32	1	20.22	6.78	2328	4.04	122.5	Light brown	
9:33	2	20.53	6.76	2334	4.54	119.7	Clear	
9:34	3	20.63	6.80	2327	5.69	115.8	Clear	
9:35	4	20.69	6.84	1877	5.57	108.3	Clear	
9:36	5	20.75	6.90	1210	5.56	104.6	Clear	
9:41	10	20.71	6.76	2309	4.09	99.6	Clear	
9:46	15	20.66	6.81	2348	3.58	91.4	Clear	

#### Monitoring Well Number: WGR MW-2

Project Name:	Foothill Square	Date of Sampling: 4/1/2008
Job Number:	261829	Name of Sampler: A. Nieto
Project Address:	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4				
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)	63.18				
Depth of Well	28.00				
Depth to Water (from top of casing)	22.83				
Water Elevation (feet above msl)	40.35				
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)	Not sampled				
Appearance of Purge Water					
Free Product Present?	na Thickness (ft): -				

#### GROUNDWATER SAMPLES

Number of Samples/Container Size							
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments

Well not sampled

#### Monitoring Well Number: WGR MW-3

Project Name:	Foothill Square	Date of Sampling: 4/1/2008
Job Number:	261829	Name of Sampler: A. Nieto
Project Address:	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")		4		
Wellhead Condition	ОК ▼			
Elevation of Top of Casing (feet above msl)		58.34		
Depth of Well		27.00		
Depth to Water (from top of casing)		18.74		
Water Elevation (feet above msl)	39.60			
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)	Not sampled			
Appearance of Purge Water				
Free Product Present?	na	Thickness (ft): -		

#### GROUNDWATER SAMPLES

Number of Samples/Container Size							
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments

Well not sampled

#### Monitoring Well Number: WGR MW-4

Project Name:	Foothill Square	Date of Sampling: 4/1/2008
Job Number: 261829		Name of Sampler: A. Nieto
Project Address: 10700 MacArthur Blvd., Oakland		

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")		4		
Wellhead Condition	ОК			
Elevation of Top of Casing (feet above msl)		60.02		
Depth of Well		44.96		
Depth to Water (from top of casing)		25.91		
Water Elevation (feet above msl)	34.11			
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)	Not Sampled			
Appearance of Purge Water				
Free Product Present?	na	Thickness (ft): -		

#### GROUNDWATER SAMPLES

Number of Samples/Container Size							
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments

Well not sampled	

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

ſ	Project Name:	Foothill Square	Date of Sampling: 4/1/2008
	Job Number:	261829	Name of Sampler: A. Nieto
	Project Address: 10700 MacArthur Blvd., Oakland		

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	ОК		
Elevation of Top of Casing (feet above msl)	52.34		
Depth of Well	51.94		
Depth to Water (from top of casing)	23.79		
Water Elevation (feet above msl)	28.55		
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)	13.5		
Actual Volume Purged (gallons)	14.0		
Appearance of Purge Water	Milky brown, clearing at 2 gallons		
Free Product Present?	Thickness (ft): -		

GROUNDWATER SAMPLES							
Number of Sampl	es/Container S	Size		3 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
7:45	1	18.71	6.57	651	2.13	147.8	Light brown
7:46	2	18.95	6.37	663	1.73	144.9	clear
7:47	3	18.98	6.34	666	1.67	143.0	clear
7:49	6	19.03	6.27	670	1.56	138.5	clear
7:51	9	19.08	6.24	671	1.47	130.2	clear
7:53	12	19.09	6.24	671	1.50	126.7	clear
7:55	14	19.10	6.25	671	1.44	123.2	clear

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

Project Name:	Foothill Square	Date of Sampling: 4/1/2008
Job Number:	261829	Name of Sampler: A. Nieto
Project Address:	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")		2										
Wellhead Condition	ОК											
Elevation of Top of Casing (feet above msl)	54.06											
Depth of Well		64.07										
Depth to Water (from top of casing)		26.02										
Water Elevation (feet above msl)	28.04											
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)	18.3											
Actual Volume Purged (gallons)		19.0										
Appearance of Purge Water	Initially brown, clearing at 3 gallons											
Free Product Present?	na	Thickness (ft): -										

		G	ROUNDWA	TER SAMPL	.ES									
Number of Samp	oles/Container S	Size		3 VOAs										
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments							
7:03	1	19.33	6.93	890	3.71	124.4	Light Brown							
7:04	2	19.36	6.77	890	3.48	125.4	Light Brown							
7:05	3	19.39	6.68	893	3.24	125.8	Clear							
7:06	4	19.40	6.61	896	2.69	124.2	Clear							
7:09	8	19.47	6.49	897	2.44	118.0	Clear							
7:12	12	19.47	6.46	896	2.31	117.0	Clear							
7:15	16	19.48	6.43	894	2.19	115.2	Clear							
7:17	19	19.48	6.42	894	2.14	113.7	Clear							

		Mor	nitoring Well Number:	MW-6
-			•	
	Project Name:	Foothill Square	Date of Sampling:	4/1/2008
	Job Number:	261829	Name of Sampler:	A. Nieto
	Project Address:	10700 MacArthur Blvd., Oakland		

#### MONITORING WELL DATA

	-										
Well Casing Diameter (2"/4"/6")		2									
Wellhead Condition	ОК										
Elevation of Top of Casing (feet above msl)		61.78									
Depth of Well		48.69									
Depth to Water (from top of casing)		32.39									
Water Elevation (feet above msl)	29.39										
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)	7.8										
Actual Volume Purged (gallons)	8.0										
Appearance of Purge Water	Initially light brown, clears quickly										
Free Product Present?	na	Thickness (ft): -									

		G	ROUNDWA	TER SAMPL	.ES								
Number of Sample	es/Container S	Size		3 VOAs									
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments						
8:22	1 18.17		6.55	1720	2.07	140.6	Clear						
8:23	2	18.33	6.57	1720	1.82	133.9	Clear						
8:24	3	18.41	6.57	1716	1.67	126.0	Clear						
8:25	4	18.43	6.59	1713	1.62	120.6	Clear						
8:26	5	18.45	6.59	1714	1.59	117.3	Clear						
8:27	6	18.47	6.60	1710	1.58	111.8	Clear						
8:29	8	18.48	6.60	1709	1.58	109.0	Clear						

#### AEI CONSULTANTS

#### GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

#### Monitoring Well Number: MW-7

Project Name:	Foothill Square	Date of Sampling: 4/1/2008
Job Number:	261829	Name of Sampler: A. Nieto
Project Address:	10700 MacArthur Blvd., Oakland	

#### MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")		2									
Wellhead Condition	ОК	<b>•</b>									
Elevation of Top of Casing (feet above msl)		58.64									
Depth of Well		38.00									
Depth to Water (from top of casing)		19.73									
Water Elevation (feet above msl)	38.91										
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)		Not sampled									
Appearance of Purge Water											
Free Product Present?	na	Thickness (ft):									

#### GROUNDWATER SAMPLES

		6	ROONDIA										
Number of Sample	es/Container S	Size		3 VOAs									
Time	Vol Removed Temperature (gal) (deg C)		рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments						

Well not sampled	

#### **APPENDIX B**

#### LABORATORY ANALYTICAL REPORT WITH CHAIN OF CUSTODY DOCUMENTATION

McCampbell An "When Ouality"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269								
AEI Consultants	Client Project ID: #26182	9; Foothill Square	Date Sampled:	04/01/08						
2500 Camino Diablo, Ste. #200			Date Received:	04/01/08						
Walnut Creek, CA 94597	Client Contact: Jeremy Sr	nith	Date Reported: 04/09/08							
Wallat Creek, Cri 91897	Client P.O.:		Date Completed: 04/07/08							

#### WorkOrder: 0804029

April 09, 2008

Dear Jeremy:

Enclosed within are:

- 1) The results of the **8** analyzed samples from your project: **#261829; Foothill Square,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

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	McCAN					LI	INC	Ζ.												CI	IA	IN	0	F	CU	JST	ГО	D	YF	E	CO	RI	)			
			Villow Pass burg, CA 9												Т	UF	٨N	AR	0	UN	D 1	ΓIN	1E		Ę					Ę					Sk.	-
Telepho	ne: (925) 25		our Bi cre >	10.00	F	ax	(9)	25)	252-	-920	59									~	_					JSH	1	24 H	IR	48	8 HR		72 H	IR	5 D	AY
Denset Tex I	C-14h			TI T		0.0		-	0.0		_			-	E	DF	Req	uire	ed? Zh Yes Analysis Requ						No No				_	_	0.1			0		
Report To: Jerem Company: AEI C			В		o: san	ne			P.0	. #				-	_					An	alys	SIS F	tequ	uest	_				-		Oth	er	+	Com	ment	is.
	Camino Dia	blo Suito	200											-			kF)																			
	ut Creek, C		200	E-M	ail: ja	ismi	th@	aeic	onsi	ultar	nts c	om		-	BE		F/B								0											
Tele: (925) 944-2			F		(925)		-		ono	CALL COLO	1010	VIII			8015)/MTBE	anug	E&	1							8310											
Project #: 261829		-			et Nar		_		IIS	qua	re				8015)	1 Clé	5520	(418							270											
Project Location:		Arthur B													+	a Ge	ise (;	ons		020		Z			5 / 82'			(0								
Sampler Signatur	e:A		Vic		-										(602/8020	silic	& Grease (5520 E&F/B&F)	carb		2/8		NO			A 625			2/6010)								
		SAMP	LING		rs	Γ	M	ATI	ax				HOL		s (602	TPH as Diesel (8015) w/silica Gel Cleanup	)il &	Total Petroleum Hydrocarbons (418.1)	0	BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's ONLY			FPA			/239.2								
				ers	aine										as Gas	(801	m	um ł	826	(EI	80	80 P	09	20	's b	als	rls	421/								
SAMPLE ID (Field Point Name)	LOCATION			Containers	Type Containers										TPH	esel	Total Petroleum Oil	Inde	HVOCs EPA 8260	NLA	EPA 608 / 8080	1/80	EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421								
(i lead i onic i anc)		Date	Time	ont	l e	ter	_		dge	her		_	ő	ler	X&	IS Di	I Pet	I Pe	ocs	XO	V 608	09	624 V	625	l's/	M-17	T.5	1 (72								
				#	Typ	Water	Soil	Air	Sludge	Other	Ice	HCI	HNO <sub>3</sub>	Other	BTEX &	Hd.	Tota	Tota	HV(	BTE	EPA	EPA	EPA	EPA	PAF	CAN	LUF	Lcad	RCI							
AMW-1		4/1/08	12.40.	3	VQA	5 1					K	K		1		-			Х											$\vdash$		+	+	•		
AMW-4		11	1110	1	T	X					K	r							Х																	
AMW-5			1105		11	A					t	x							Х																	
AMW-6			190			Ŕ	-				R	F		1					Х														+			_
AMW-9			aics	-		k					X	F		1					Х																	
MW-6			4.50			k					x	1		1					Х														+			
FHS MW-10			8:05	+	$\mathbf{H}$	k		-			1	7		+					X											$\vdash$		-	+			
FHS MW-11			7:25		12	k	-	-			2	1		1					X											$\vdash$		-	+			
		-	T. 67	+		1	-				4	<u>×</u>	-	+							-										-	+	+			
				-	-	⊢	+			-		-	-	+	_				-		-		-						-	$\vdash$	+	+	+			
				-		⊢	+	-		-	-	-	-	+		-		-	-				-	-					-	$\vdash$	-	+	+			
				-	-	⊢	-	-		-	-	-	-	+		-		-	-				-	-					-	$\vdash$	-	+	+			
					-	⊢	-			_	-	_	-	+	-		-	-	_				-	-	-				-	$\vdash$	_	-	+			
					-	⊢	-	-			-	_	-	4			_					_		-					-	$\vdash$	-	+	+			
n 1/2 · 1 · 1 · 1														$\downarrow$		-												-								
Refinquished By:	1/	Date:	7:35		eived B		rv	1	-																				VC	as	0&0		MET	ALK	отн	ER
Relinquished By:	m	Date:	1 7)6 Time:	_	eived B	_		-0	)					-	1	CE/	t°	7.6	0 (	C	4	/				SER			NH		out		, and a local sector		0.14	
sandanica pyr		Date.	Time.	need	Litter D	4.									(	GOC	DD (	ON	DIT	BSI		-	ł			ROP										
Relinquished By:		Date:	Time:	Rece	eived B	v:				-	-	-		$\neg$									BN							AB	1	/				
						Received By:										DECHLORINATED IN LAB $M \not\models$ PERSERVED IN LAB $\_ \checkmark$																				

#### McCampbell Analytical, Inc.

1534 Willow Pass Rd

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg, CA 94565-1701 (925) 252-9262						Work	Order	0804	029	(	Client(	Code: A	<b>NEL</b>				
			WriteOr	n 🖌 EDF	Γ	Excel		Fax		🖌 Email	l	Har	dCopy	🗌 Thi	rdParty	J-	-flag
Report to: Jeremy Smith		Email:	jasmith@aeid	consultants.com			Bill to: De	nise M	ockel				Req	uested	TAT:	5 (	days
	-				944-28	95	25 Wa	alnut Ci	nino Di reek, C	ablo, S A 9459 nsultan	7				Received: 04/01/2008 Printed: 04/03/2008		
									Red	uested	l Tests	(See le	gend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0804029-001	AMW-1		Water	4/1/2008 12:40		Α	Α									T	
0804029-002	AMW-4		Water	4/1/2008 11:10		Α											
0804029-003	AMW-5		Water	4/1/2008 11:05		Α											
0804029-004	AMW-6		Water	4/1/2008 11:20		Α											
0804029-005	AMW-9		Water	4/1/2008 9:55		Α											
0804029-006	MW-6		Water	4/1/2008 8:50		Α											
0804029-007	FHS MW-10		Water	4/1/2008 8:05		Α											
0804029-008	FHS MW-11		Water	4/1/2008 7:25		Α											

#### Test Legend:

1	8010BMS_W
6	
11	

2	PREDF REPORT
7	
12	

3	
8	

4			
9			

5		
10		

Prepared by: Samantha Arbuck
------------------------------

#### **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.



# McCampbell Analytical, Inc. "When Ouality Counts"

#### Sample Receipt Checklist

Client Name:	AEI Consultants					Date a	and Time Received:	4/1/08 8:3	5:03 PM
Project Name:	#261829; Foothil	I Squar	e			Check	klist completed and re	eviewed by:	Samantha Arbuckle
WorkOrder N°:	0804029	Matrix	Water			Carrie	er: <u>Client Drop-In</u>		
			Chain	of Cu	stody (C	OC) Informa	ation		
			onum			-			
Chain of custody	/ present?			Yes	$\checkmark$	No 🗆			
Chain of custody	/ signed when relinqui	ished and	I received?	Yes	$\checkmark$	No 🗆			
Chain of custody	agrees with sample	labels?		Yes	$\checkmark$	No 🗌			
Sample IDs noted	d by Client on COC?			Yes	$\checkmark$	No 🗆			
Date and Time of	f collection noted by Cl	ient on CO	C?	Yes	✓	No 🗆			
Sampler's name	noted on COC?			Yes	✓	No 🗆			
			S	ample	Receint	Information	1		
				-	-			_	
Custody seals in	tact on shipping conta	iner/cool	er?	Yes	$\checkmark$	No 🗆		NA 🗆	
Shipping contain	er/cooler in good cond	lition?		Yes	$\checkmark$	No 🗆			
Samples in prop	er containers/bottles?			Yes	$\checkmark$	No 🗆			
Sample containe	ers intact?			Yes	$\checkmark$	No 🗆			
Sufficient sample	e volume for indicated	test?		Yes	✓	No 🗌			
		Sai	mple Presei	rvatio	n and Ho	d Time (HT	) Information		
						-	<b>,</b>		
All samples rece	ived within holding tim	ie?		Yes	$\checkmark$	No 🗌			
Container/Temp	Blank temperature			Coole	er Temp:	7.6°C		NA 🗆	
Water - VOA via	ls have zero headspa	ce / no bi	ubbles?	Yes	✓	No 🗆	No VOA vials submi	itted	
Sample labels cl	hecked for correct pre	servation	?	Yes	✓	No 🗌			
TTLC Metal - pH	acceptable upon rece	ipt (pH<2)	)?	Yes		No 🗆		NA 🗹	

Client contacted:

Date contacted:

Contacted by:

Comments:

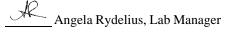
<u>McCampbell An</u> "When Quality		<u>.</u>		bell.com E-mail: main		com			
"When Ouality		uniant ID: #2619	Telephone:         877-252-9262         Fax:         925-252-9269           :         #261829; Foothill         Date Sampled:         04/01/08						
AEI Consultants	Square	oject ID: #2018	29; Footnill	Date Received: 04/01/08					
2500 Camino Diablo, Ste. #200	Square								
2500 Carinio Diabio, Stc. #200	Client C	ontact: Jeremy S	mith	Date Extracted:	04/06/08-0	4/09/08			
Walnut Creek, CA 94597	Client P.	0.	Date Analyzed	04/06/08-0	4/09/08				
					04/00/00 0	4/07/00			
Halogenated	Volatile Organi	cs by P&T and (	GC-MS (8010 Bas	sic Target List)*					
Extraction Method: SW5030B	Anal	ytical Method: SW82	60B		Work Order:	0804029			
Lab ID	0804029-001A	0804029-002A	0804029-003A	0804029-004A					
Client ID	AMW-1	AMW-4	AMW-5	AMW-6	Reporting				
					DF =1				
Matrix	W	W	W	W	c	W			
DF	1	1	1	5	. S	W			
Compound		Con	entration	1	µg/kg	μg/L			
	ND			ND -2.5					
Bromodichloromethane Bromoform	ND ND	ND ND	ND ND	ND<2.5 ND<2.5	NA NA	0.5			
Bromomethane	ND	ND	ND	ND<2.5	NA	0.5			
Carbon Tetrachloride	ND	ND	ND	ND<2.5	NA	0.5			
Chlorobenzene	ND	ND	ND	ND<2.5	NA	0.5			
Chloroethane	ND	ND	ND	ND<2.5	NA	0.5			
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND<2.5	NA	1.0			
Chloroform	ND	0.85	ND	ND<2.5	NA	0.5			
Chloromethane	ND	ND 0.85	ND	ND<2.5	NA	0.5			
Dibromochloromethane	ND	ND	ND	ND<2.5	NA	0.5			
1,2-Dibromoethane (EDB)	ND	ND	ND	ND<2.5	NA	0.5			
1,2-Dichlorobenzene	ND	ND	ND	ND<2.5	NA	0.5			
1,3-Dichlorobenzene	ND	ND	ND	ND<2.5	NA	0.5			
1,4-Dichlorobenzene	ND	ND	ND	ND<2.5	NA	0.5			
Dichlorodifluoromethane	ND	ND	ND	ND<2.5	NA	0.5			
1,1-Dichloroethane	ND	ND	ND	ND<2.5	NA	0.5			
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND<2.5	NA	0.5			
1,1-Dichloroethene	ND	ND	ND	ND<2.5	NA	0.5			
cis-1,2-Dichloroethene	ND	3.3	1.7	39	NA	0.5			
trans-1,2-Dichloroethene	ND	ND S.S	ND	6.2	NA	0.5			
1,2-Dichloropropane	ND	ND	ND	ND<2.5	NA	0.5			
cis-1,3-Dichloropropene	ND	ND	ND	ND<2.5	NA	0.5			
trans-1,3-Dichloropropene	ND	ND	ND	ND<2.5	NA	0.5			
Freon 113	ND	ND	ND	ND<50	NA	10			
Methylene chloride	ND	ND	ND	ND<2.5	NA	0.5			
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND<2.5	NA	0.5			
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND<2.5	NA	0.5			
Tetrachloroethene	ND	5.8	50	140	NA	0.5			
1,1,1-Trichloroethane	ND	ND	ND	ND<2.5	NA	0.5			
1,1,2-Trichloroethane	ND	ND	ND	ND<2.5	NA	0.5			
Trichloroethene	ND	2.6	2.8	24	NA	0.5			
Trichlorofluoromethane	ND	ND	ND	ND<2.5	NA	0.5			
Vinyl Chloride	ND	ND	ND	ND<2.5	NA	0.5			
	Su	rrogate Recoveri	es (%)						
%SS1:	100	100	106	101					
%SS2:	94	93	99	94					
%\$\$32. %\$\$33:	95	95	100	94	1				

\* water and vapor samples are reported in  $\mu g/L$ , soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in  $\mu g/wipe$ .

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than  $\sim 1$  vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



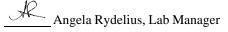
When Ouality		<u>.</u>		npbell.com E-mail: maii : 877-252-9262 Fax: 92		com				
AEI Consultants		oiget ID: #26	#261829; Foothill Date Sampled: 04/01/08							
AEI Consultants	Square	0ject ID. #20	1629, F00uiiii	-						
2500 Camino Diablo, Ste. #200	Square			Date Received:	Date Received: 04/01/08					
2000 Califilio Diaolo, Stel #200	Client C	ontact: Jerem	y Smith	Date Extracted:	04/06/08-0	4/09/08				
Walnut Creek, CA 94597	Client P.	0.:		Date Analyzed	04/06/08-0	4/09/08				
II-l	Valatila Oracari		1 CC MC (0010 D							
Extraction Method: SW5030B	_	ytical Method: SV	d GC-MS (8010 B	asic Target List)*	Work Order:	0804029				
Lab ID	0804029-005A	0804029-00		A 0804029-008A		000102)				
					Reporting	Limit fo				
Client ID	AMW-9	MW-6	FHS MW-10	FHS MW-11	DF =1					
Matrix	W	W	W	W	s	W				
DF	5	3.3	1	1						
Compound		С	oncentration		µg/kg	μg/L				
Bromodichloromethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Bromoform	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Bromomethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Carbon Tetrachloride	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Chlorobenzene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Chloroethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
2-Chloroethyl Vinyl Ether	ND<5.0	ND<3.3	ND	ND	NA	1.0				
Chloroform	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Chloromethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Dibromochloromethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,2-Dibromoethane (EDB)	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,2-Dichlorobenzene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1.3-Dichlorobenzene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,4-Dichlorobenzene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Dichlorodifluoromethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,1-Dichloroethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,2-Dichloroethane (1,2-DCA)	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,1-Dichloroethene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
cis-1,2-Dichloroethene	ND<2.5		.8 ND	ND	NA	0.5				
trans-1.2-Dichloroethene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,2-Dichloropropane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
cis-1,3-Dichloropropene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
trans-1,3-Dichloropropene	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Freon 113	ND<50	ND<33	ND	ND	NA	10				
Methylene chloride	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,1,1,2-Tetrachloroethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
1,1,2,2-Tetrachloroethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Tetrachloroethene	130		6 0.8		NA	0.5				
1,1,1-Trichloroethane	ND<2.5	ND<1.7	0 0.0 ND	ND 20	NA	0.5				
1,1,2-Trichloroethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Trichloroethene	ND<2.5		.2 ND	0.61	NA	0.5				
Trichlorofluoromethane	ND<2.5	ND<1.7	ND	ND	NA	0.5				
Vinyl Chloride	ND<2.5	ND<1.7	ND	ND	NA	0.5				
		rrogate Recov								
%SS1:	105	101	107	106						
%SS2:	104	93	101	101						
%SS3:	101	94	103	104						
Comments										

\* water and vapor samples are reported in  $\mu g/L$ , soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in  $\mu g/wipe$ .

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than  $\sim 1$  vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





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#### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0804029

EPA Method SW8260B Extraction SW5030B					BatchID: 34793 Spiked Sample ID: 0804029						0804029-00	1 <b>A</b>
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	)
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	93.4	96.8	3.52	94.6	101	6.60	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	101	103	2.01	102	105	3.01	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	110	114	3.80	108	108	0	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	89.5	101	12.0	98.1	99.9	1.81	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	85.6	107	22.4	87.2	90.4	3.66	70 - 130	30	70 - 130	30
%SS1:	100	10	96	100	3.77	102	97	4.67	70 - 130	30	70 - 130	30
%SS2:	94	10	100	99	0.832	102	102	0	70 - 130	30	70 - 130	30
%SS3:	95	10	104	104	0	104	103	0.985	70 - 130	30	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

#### BATCH 34793 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804029-001A	04/01/08 12:40 PM	04/07/08	04/07/08 6:56 PM	0804029-002A	04/01/08 11:10 AM	04/07/08	04/07/08 7:38 PM
0804029-003A	04/01/08 11:05 AM	04/06/08	04/06/08 2:24 AM	0804029-004A	04/01/08 11:20 AM	04/07/08	04/07/08 9:45 PM
0804029-005A	04/01/08 9:55 AM	04/09/08	04/09/08 11:11 AM	0804029-006A	04/01/08 8:50 AM	04/07/08	04/07/08 10:27 PM
0804029-007A	04/01/08 8:05 AM	04/06/08	04/06/08 6:46 AM	0804029-008A	04/01/08 7:25 AM	04/06/08	04/06/08 7:30 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

DHS ELAP Certification Nº 1644

