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ADDITIONAL SITE INVESTIGATION REPORT

10700 MacArthur Boulevard Oakland, California

AEI Project No. 261829 Toxics Case No. RO0002580

Prepared For

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1.0 Introduction

This report describes the activities and results of the recent investigation activities performed by AEI Consultants for the property located at 10700 MacArthur Boulevard, Oakland, California (Figure 1: Site Location Map). The investigation was originally proposed in AEI's Vapor Survey Workplan dated July 7, 2005, and approved in a letter from the Alameda County Health Care Services (ACHCS) dated August 22, 2005. The investigation project included the following tasks:

- Continuous logging of two soil borings to evaluate target depths for soil gas sampling.
- Collection and analyses of soil vapor samples from throughout the property,
- Monitoring and sampling of the existing wells at and in the vicinity of the site, and
- Review of all data, update conduit and well survey, and preparation this report.

The investigation was performed at the requirement of the ACHCS to further evaluate the release of tetrachloroethylene (PCE) from historical dry-cleaning activities at the site, particularly whether significant vapor phase contaminants exist at the site.

2.0 SITE DESCRIPTION AND HISTORY

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 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 property and surrounding area.

Prior to the construction of the shopping center, approximately five acres of the northwest portion of the property was formerly occupied by with the Fageol Motor Company, which later became Peterbilt Motors Company, a manufacturer of tractors, trucks, and motorbuses. The southern and eastern portion of the property, approximately two-thirds of the total area, was undeveloped grassland. 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 (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.



2.1 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 ACHCSA 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.

2.2 Exploratory Excavation - 1994

In May 1994, Augeas performed an exploratory excavation within the Young's Cleaners locations. 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).



2.3 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 (μ g/L) to 11,000 μ 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 μ g/L, 320 μ g/L, 110 μ g/L, 50 μ g/L, 8 μ g/L and 4.2 μ 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 effected 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.

2.4 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. Refer to Figure 4 for the extent and depths of the excavation.



The removal 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 μ g/kg to 380 μ g/kg. TCE was detected in three samples at concentrations ranging from 11 μ g/kg to 38 μ 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.

2.5 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 TM 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 TM 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 μ 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 μ g/l, 20 μ g/L, 40 μ g/L, and 25 μ g/L, respectively. This data indicated that although PCE had been detected at the ARCO station at concentrations up to 2,600 μ g/L, only low concentrations of PCE were present in the "deep" groundwater zone west of MacArthur Boulevard and west toward 106th 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 at that time 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-MW10 and FHS-MW-11 at maximum concentrations of 18 μ g/L and 12 μ g/L, respectively. Monitoring continued on a roughly semi-annual basis through 2003.

Soil boring and well locations are shown on Figures 2 & 3 and historical data is presented in Tables 1 through 4.

3.0 GEOLOGY AND HYDROGEOLOGY

The subject site is located on the eastern edge of the East Bay, a broad, gently westward sloping area produced by coalescing alluvial fans and bay margin plains along the eastern shore of San Francisco Bay. In the site vicinity the sediments underlying the surface are mapped as Holocene aged alluvium, consisting of weakly consolidated, slightly weathered poorly sorted, irregularly bedded clay, silt, sand and gravel, interpreted to be primarily alluvial fan and fluvial deposits. These alluvial fan deposits extend westward over the Late Pleistocene Alameda formation, the major basin-filling unit in the area.

On the eastern portion of the site in the vicinity of the former USA station, the alluvial sediments are underlain at depths ranging from 12 to 25 feet bgs by deeply weathered highly fractured silty sandstone, siltstone, claystone and chert. These units are interpreted as bedrock and may be part of the Cretaceous aged Novato Quarry terrain sandstones similar to what is exposed to the north of the northwest of the site along the west side of the Hayward Fault. On the eastern edge of the site, the Hayward fault separates the sediments of the East Bay Plain from the igneous rocks that comprise the western portion of the adjacent San Leandro Hills.



During the recent site investigation, soil borings SB-1 and SB-2 revealed the presence of silty clay to the maximum depth explored (18 feet bgs). The silty clay contained varying amounts of sand with a maximum of up to approximately 25% sand content. A detailed description of the soil borings is included in Appendix A.

3.1 Hydrology

Historically the groundwater had been classified as "shallow" or "deep" aquifers or "zones". The shallow water table has been reported at depths ranging from approximately 10 feet bgs to 24 feet bgs and the deep at depths ranging from approximately 14 feet bgs to 45 feet bgs. AEI interprets the underlying groundwater to represent a single complex aquifer that consists of highly variable sediments ranging from high transmissivity gravel to low transmissivity silt. Wells are completed with well screens of varying lengths installed at varying depths based on were sands, if any, were encountered. Refer to Table 2 for well construction details, where known. This combination of variable screens and sediments results in highly variable and somewhat suspect groundwater elevation data in the wells. Examination of the CPT and well logs show that few if any sands are continuous across the site and that the silts between the sands are apparently water saturated. With this taken into account, the following hydrologic generalizations can be made. Based on the available data, the gradient across the ARCO site appears to be generally to the south. The gradient between the ARCO site and the former Young's dry cleaners appears generally to be to the southwest. The reported gradients at the USA site have been in all directions, both radial internal and external (at times influenced by remedial efforts); however, a southeasterly direction is predominant. These gradients are consistent with the general topography which shows a slight southwesterly swale along the north side of the site and a slight southwesterly nose through the former USA station. These topographic features are likely are reflective of the underlying bedrock topography and would effect shallow groundwater flow. Actual groundwater movement would also preferentially follow higher transmissivity sediments of variable orientations.

During the recent groundwater sampling event conducted on October 17, 2006, groundwater in the shallow wells was reported to flow towards the west at an approximate hydraulic gradient of 0.049 ft/ft. Groundwater in the deep wells was reported to flow towards the southwest at an approximately hydraulic gradient of 0.035 ft/ft. Groundwater elevations and flow directions are included on Figures 5 and 6.

4.0 INVESTIGATIVE EFFORTS

Prior to mobilization onsite, a drilling permit (W2006-0826) was obtained from the Alameda County Public Works Agency (ACPWA) and Underground Service Alert North was notified to identify public utilities in the planned work area. In addition, a private utility locating company verified the presence of underground utilities at the site, and cleared all proposed drilling locations. A copy of the drilling permit is included in Appendix A.



4.1 Soil Boring Sampling

Prior to advancing soil vapor borings at the site, AEI advanced two soil borings (SB-1 and SB-2) at the subject site on October 11, 2006. The borings were placed in separate areas of the site in order to gain a general knowledge of subsurface conditions and determine if any target zones of increased permeability (sands) for soil vapor sample collection were present in the subsurface. The locations of the soil borings are shown on Figure 2.

The borings were advanced with a direct-push drilling rig operated by TEG (CA C57 License # 706568). The borings were advanced to a depth of 15 feet bgs (SB-1) and 18 feet bgs (SB-2). Soil cores for the borings were continuously collected in 2" diameter acrylic liners and logged by the onsite AEI scientist. At selected depths, six-inch samples were cut from the liners. Selected samples were sealed with Teflon tape and plastic caps, labeled with a unique identifier, and given directly to the onsite temporary laboratory for possible analysis.

4.2 Soil Vapor Sample Collection

AEI performed the drilling and sampling at the property on October 11 through October 13, 2006. A total of seventeen (17) soil borings (VB-1 through VB-17), each with a shallow boring as well as a deep boring were advanced. The borings were placed throughout the subject property with three of the borings inside existing buildings. The locations of the soil borings are shown on Figure 2.

The soil vapor borings were advanced by TEG (CA C57 License # 706568). The soil vapor probes were constructed of 1 inch outer diameter chrom-moly steel, equipped with a steel sacrificial tip. An inert 1/8 inch tube ran through the center of the probe and was attached to the sampling port with a stainless steel post run fitting. The probes were driven into the ground with an electric rotary hammer. After inserted to the desired depth (approximately 5 feet bgs for shallow borings and approximately 8 to 12 feet bgs for deep borings), the probe was retracted slightly, which opened the tip and exposed the vapor sampling port. No flow conditions were encountered in several of the borings due to the fine-grained clayey lithology. If no flow conditions were encountered, the probe was retracted until flow conditions were encountered. Once the probe rod was placed, the sample was collected after waiting approximately twenty minutes for equilibration.

Soil vapor was withdrawn from the inert tubing using a calibrated syringe connected via an on-off valve. A purge volume test was conducted by sampling at the first soil vapor location three times after sequentially collecting and discarding one, three, and seven dead volumes of soil vapor gas to flush the sample tubing and fill it with in-situ soil vapor. The purge volume used prior to the sample yielding the highest analytical value is used for all subsequent sampling. After purging, the next 20cc to 50cc of soil vapor were withdrawn in the syringe, plugged, and immediately transferred to the mobile lab for analysis within the required holding time. During sampling, a leak check gas was used to confirm that the sample train and probe rod is tight and leak free. To minimize the potential for cross-contamination, all external probe parts were cleaned of excess dirt and moisture prior between sampling locations. The internal inert tubing and sampling syringes were discarded after each sample.



4.3 **Boring Destruction**

Upon completion of sampling and measurement activities, all sampling equipment was removed from the boreholes. Each boring was backfilled with neat cement grout to the existing grade per ACPWA permit requirements.

4.4 Laboratory Analysis

Soil vapor samples were analyzed by TEG (Department of Health Services Certification #1671), an onsite mobile laboratory. Soil samples were not analyzed for contaminants. Soil vapor samples analyzed by TEG were analyzed for PCE, TCE, cis-1,2 DCE, trans-1,2-DCE, and vinyl chloride by EPA Method 8260B.

Analytical results and chain of custody documents are included as Appendix B.

5.0 GROUNDWATER MONITORING

On October 17, 2006, AEI measured the depth to water and purged and sampled groundwater from wells AMW-1, AMW-4 through AMW-6, AMW-8, AMW-9, FHS MW-10, FHS MW-11, MW-6, MW-7, WGR MW-3, and WGR MW-4. First, the well caps were removed and the monitoring wells were allowed to equilibrate with atmospheric pressure. The depth to groundwater (from the top of the well casing) for each well was measured with an electric water level indicator. Each well was then purged using a battery powered submersible pump. At least three casing volumes were purged from each well. Field Parameters: temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured during purging. A visual estimate of turbidity was noted during the purging of each well.

Following recovery of the water level to 90% of original level, a water sample was collected from each well. The water sample was collected using a new disposable polyethylene bailer and placed into 40-milliliter volatile organic analysis (VOA) vials. The VOAs were filled so that no headspace or air bubbles were visible within the vials. Samples were placed in a cooler on water ice pending transportation under appropriate chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644). Groundwater samples were analyzed for halogenated VOCs (HVOCs) by EPA Method SW8260B. A copy of the groundwater monitoring field sheets is included in Appendix C.

6.0 FINDINGS

Sediments of borings SB-1 and SB-2 were logged primarily as silty clay to the maximum depth explored (18 feet bgs). The silty clay contained varying amounts of sand, to a maximum of approximately 25%. Areas of obviously higher gas permeability for soil vapor sample collection were not identified during the logging of the two borings. In addition, no flow conditions were encountered in several of the borings at target depths, confirming the relatively low gas permeability of the shallow sediments.



6.1 Soil Vapor Analytical Results

Analyses of soil vapor samples collected at shallow depths (ranging from 2.5 feet bgs to 5 feet bgs) are summarized as follows:

- PCE was detected in seven of the seventeen shallow soil vapor samples at concentrations ranging from 0.13 μ g/l (VB-13-5) to 61 μ g/l (VB-8-5).
- TCE was detected in three of the seventeen shallow soil vapor samples at concentrations of 1.9 μ g/l (VB-8-5), 0.67 μ g/l (VB-9-5), and 7.0 μ g/l (VB-11-4.5).
- Cis-1,2-DCE was detected in four of the seventeen shallow soil vapor samples at concentrations ranging from 0.13 μ g/l (VB-8-5) to 700 μ g/l (VB-11-4.5).
- Trans-1,2 DCE was detected in one of the seventeen shallow soil vapor samples at a concentration of 170 µg/l (VB-11-4.5).
- Vinyl chloride was detected in two of the seventeen shallow soil vapor samples at a concentration of $2.0 \,\mu\text{g/l}$ (VB-3-4.5) and $520 \,\mu\text{g/l}$ (VB-11-4.5).

Analyses of soil vapor samples collected at deep depths (ranging from 8 feet bgs to 12 feet bgs) are summarized as follows:

- PCE was detected in seven of the seventeen deep soil vapor samples at concentrations ranging from 3.2 µg/l (VB-4-12) to 6,800 µg/l (VB-11-11.5).
- TCE was detected in five of the seventeen deep soil vapor samples at concentrations ranging from 0.25 μ g/l (VB-4-12) to 1,400 μ g/l (VB-11-4.5).
- Cis-1,2-DCE was detected in six of the seventeen deep soil vapor samples at concentrations ranging from 0.22 μ g/l (VB-6-8) to 540 μ g/l (VB-11-4.5).
- Trans-1,2 DCE was detected in two of the seventeen deep soil vapor samples at a concentration of 0.13 μ g/l (VB-5-12) and 64 μ g/l (VB-11-4.5).
- Vinyl chloride was detected in two of the seventeen deep soil vapor samples at a concentration of 0.29 μ g/l (VB-5-12) and 23 μ g/l (VB-11-4.5).

Soil vapor analytical data is summarized in Table 5 and Figure 7. The laboratory analytical report is included as Appendix B.

6.2 Groundwater Analytical Results

During the October 17, 2006 groundwater sampling event, analytical results for HVOCs are summarized as follows:

- PCE was detected in eight of the thirteen wells at concentrations ranging from 0.62 μ g/L (WGR MW-4) to 320 μ g/L (MW-6).
- TCE was detected in three of the thirteen wells at concentrations of 0.88 μ g/L (AMW-5), 14 μ g/L (AMW-6), and 18 μ g/L (MW-6).
- Cis-1-2-DCE was detected in four of the thirteen wells at concentrations ranging from 0.68 μg/L (AMW-5) to 32 μg/L (AMW-6)
- Trans-1-2-DCE was detected in one of the thirteen monitoring wells (AMW-6) at a concentration of $4.9 \,\mu g/L$.



• Bromodichloromethane was detected in one of the thirteen monitoring wells (MW-7) at a concentration of 1.7 μ g/L.

The remaining HVOCs, including vinyl chloride, were not detected at or above the laboratory detection limits in the groundwater samples analyzed. The analytical results are displayed on Table 4 and Figure 8. The complete laboratory analytical report is included as Appendix B.

6.3 Well Survey Update

AEI presented the results of a well survey previously conducted for the site as part of the July 7, 2005 *Vapor Survey Workplan*. As requested by the ACHCS in their letter dated August 22, 2005, the map associated with that previous survey is included with this report. A total of six wells were identified within a ¼ mile radius of the site based on the survey performed by GHH Engineering, Inc., in 1997 for the former USA service station located adjacent to the site. In addition, a well survey performed by ETIC Engineering for the adjacent former Exxon station, included in the Subsurface Investigation and Risk Assessment Report dated July 31, 2006, did not identify additional wells within the search radius. The GHH Engineering information of the identified wells, use of the wells, and any known screened interval is included in Appendix D.

6.4 Utility and Preferential Pathway Study Update

The ACHCS, in their letter dated August 22, 2005, requested additional interpretation of the possible preferential pathways identified in the July 7, 2005 *Vapor Survey Workplan*. The location and approximate depths of underground utilities were identified in AEI's July 7, 2005 *Vapor Survey Workplan*, and also verified by a private utility locating company in October 2006. Based on identified utilities, particularly the sanitary and storm sewer utilities located just southeast of the former dry cleaner running northeast to southwest across the property, several soil vapor borings were placed along these utility corridors. Underground utilities are shown on Figure 9.

Elevated concentrations of HVOCs were detected in VB-8 and VB-9, just south of the former dry cleaner and the release area. However, samples from the borings adjacent to the utility corridor on either side of this area (VB-5 and VB-10) contained significantly lower concentrations of HVOCs. Up the utility corridor away from the release area (50 feet from VB-9), samples results from VB-10 were significantly lower to non-detect, with only one detection (PCE at 0.16 μ g/l in sample VB-10 at 5 feet bgs). Down the utility corridor, away from the release area, boring VB-7 at 5 and 10 feet bgs did not contain HVOCs at or above the laboratory detection limits. Samples from VB-6, 50 feet farther down from VB-7 contained PCE at a concentration of 0.53 μ g/l at 5 feet bgs and cis-1,2-DCE at a concentration of 0.22 μ g/l at 8 feet bgs. In addition, boring VB-12, located at the edge of the property along the utility corridor contained PCE at a concentration of 0.42 μ g/l and 18 μ g/l at depths of 5 feet bgs and 12 feet bgs, respectively.

Based on the results of the samples collected along the utility corridor away from the release area, it does not appear that significant vapor migration along the sewer and storm lines is occurring. The detection of concentrations of HVOCs in several borings primarily in the deeper samples (see



VB-1, VB-2, VB-4, VB-5, VB-12, and VB-13) are attributed to low concentrations of HVOCs in the shallow groundwater.

7.0 SUMMARY AND CONCLUSIONS

The investigation was performed at the request of the ACHCS to further evaluate the release of PCE from historical dry-cleaning activities at the former Young's Cleaners locations. Specifically the project was designed to evaluate the presence of vapor phase contaminants within and around the release area and the possibility of contaminant vapor intrusion. Soil vapor samples were collected from a total of 17 locations. In addition, a groundwater monitoring and sampling event was performed.

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. PCE was detected in deeper soil vapor samples, from just above the water, in several location outside of the source area, notably VB-12 and VB-13. In both locations, significant concentration decreases toward ground surface indicate that vapor intrusion from impacted groundwater is not likely to occur. Given the downward trend in dissolved phase contaminant concentrations, vapor phase contaminant concentrations associated with the dissolved phase plume are expected to have reached equilibrium and to decrease with the decrease in dissolved phase concentrations.

Detected concentrations are compared against the Environmental Screening Levels (ESLs) which were developed by the RWQCB to assist in evaluating risk posed by contaminant releases. Specifically, the ESL values used for comparison herein are for shallow soil vapor (within 5 feet of ground surface) for both residential and commercial land use scenario (Table E, SFB RWQCB, February 2005). The ESLs are presented with the vapor sample data (Table 5) and the shallow sample data is compared against these values on Figure 7.

Shallow soil vapor sample results exceeded commercial (and residential) land use ESLs in only four boring locations, VB-3, VB-8, VB-9, and VB-11. All other shallow soil vapor sample results were below the commercial ESLs for each contaminant. Although two shallow soil vapor samples (VB-12 5' and VB-6 5') had PCE concentrations that exceeded the residential ESL, their concentrations were very close (0.42 μ g/l and 0.53 μ g/l, respectively) to the residential ESL of 0.41 μ g/l. Given that these samples were outside of the commercial building areas and the conservative assumptions in the derivation of the ESLs, these findings are not considered significant.

Groundwater monitoring results are consent with previous results, continuing to exhibit decreasing trends since source removal activities. In particular, contaminant concentrations in several wells are at or near all-time low concentrations, include AMW-4, AMW-6, and AMW-9 near the former source area, and down-gradient wells MW-6, FHS MW-10, and FHS MW-11. This confirms that



since the source removal in 1995 was successful at limiting further degradation of water quality and that natural attenuation has been occurring in groundwater. These decreasing trends are expected to continue.

8.0 REFERENCES

Alameda County Health Care Services Agency, 2005. *Toxics Case No. RO0002580, Young's Cleaners, 10700 MacArthur Blvd., Oakland, CA 94605*, August 22.

All Environment, Inc (AEI), 1996. *Soil Remedial Investigation and Excavation Project Summary, Young's Cleaners, Foothill Shopping Center*, 10700 MacArthur Boulevard, Oakland, C A, 94065.

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ETIC Engineering, 2006. Subsurface Investigation and Risk Assessment Report, 10605 Foothill Boulevard, Oakland, California, July 31.

PES Environmental, Inc, 1997. Results of Additional Groundwater Investigation and Risk Evaluation, Former Youngs's Cleaners, Foothill Square Shopping Center, Oakland, California. March 24.

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



9.0 LIMITATIONS AND SIGNATURES

This report has been prepared by AEI Consultants for the property located at 10700 Foothill Boulevard, Oakland, Alameda County, California, and presents the findings of investigation activities relating to the historical release of hazardous materials on the property. Portions of this report rely on previous field investigations, laboratory testing of material samples, and evaluations performed by AEI and others. AEI is not responsible for the accuracy or quality of work performed by others, information not available or provided to AEI, and other data or information gaps. This report does not reflect subsurface variations that may exist between sampling points. These variations cannot be anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This report should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations, is present beneath the property or that all contamination present at the site would be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. All specified work was performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact the undersigned at (925) 944-2899.

Sincerely,

AEI Consultants

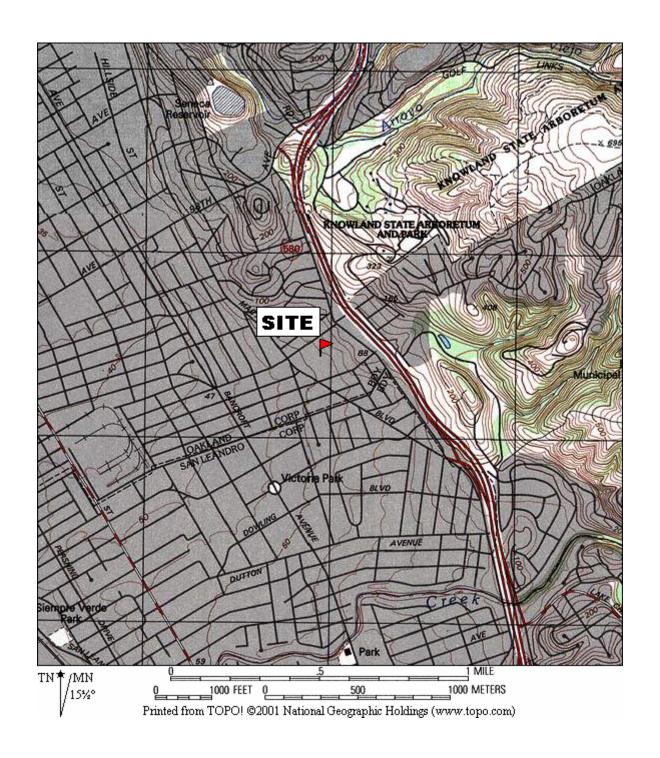
Jeremy Smith Project Manager Peter J. McIntyre, P.G., REA Senior Project Geologist

Report Distribution:

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

Alameda County Health Care Services, Attn: Barney Chan, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

FIGURES

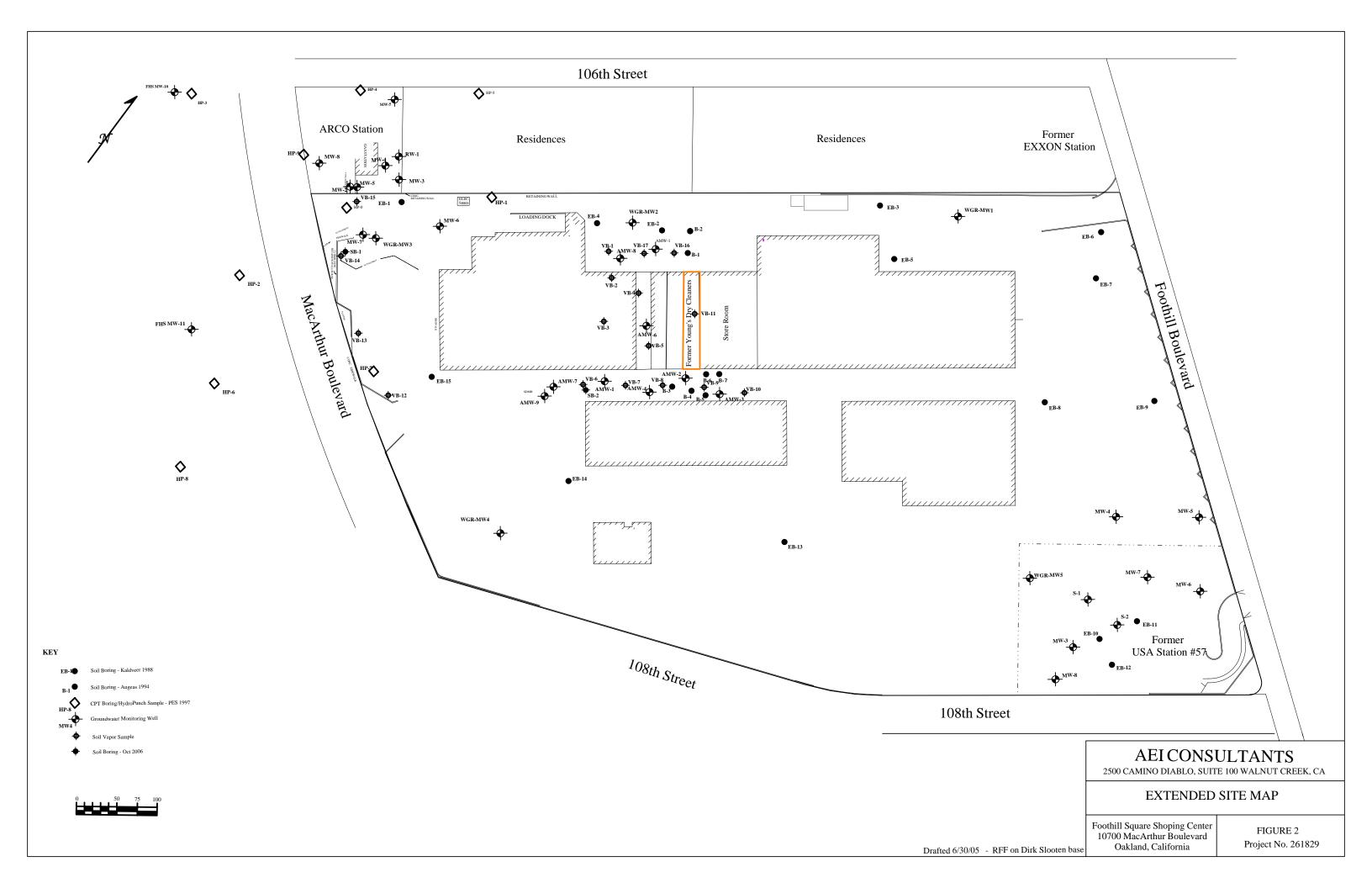


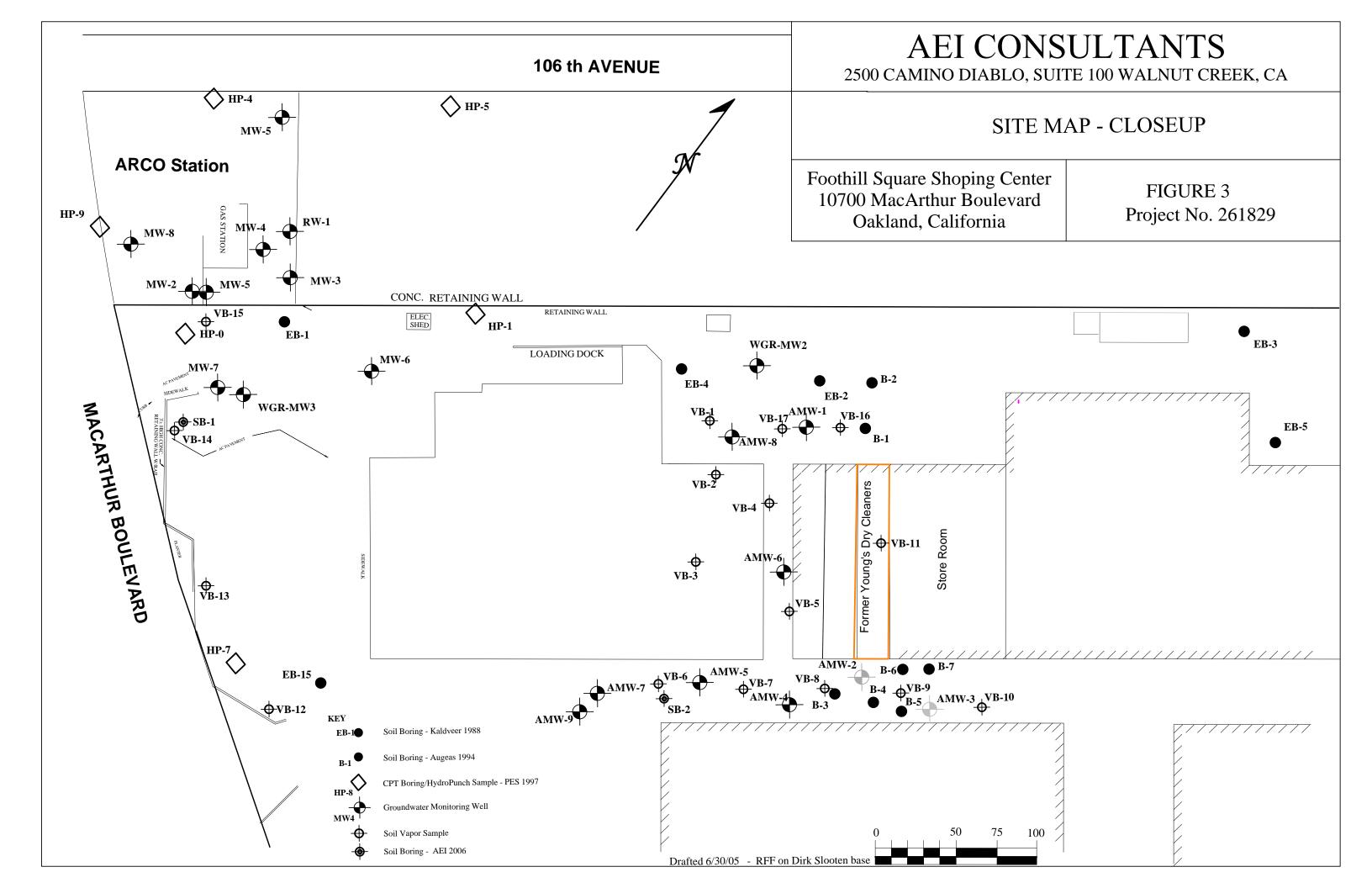
AEI CONSULTANTS

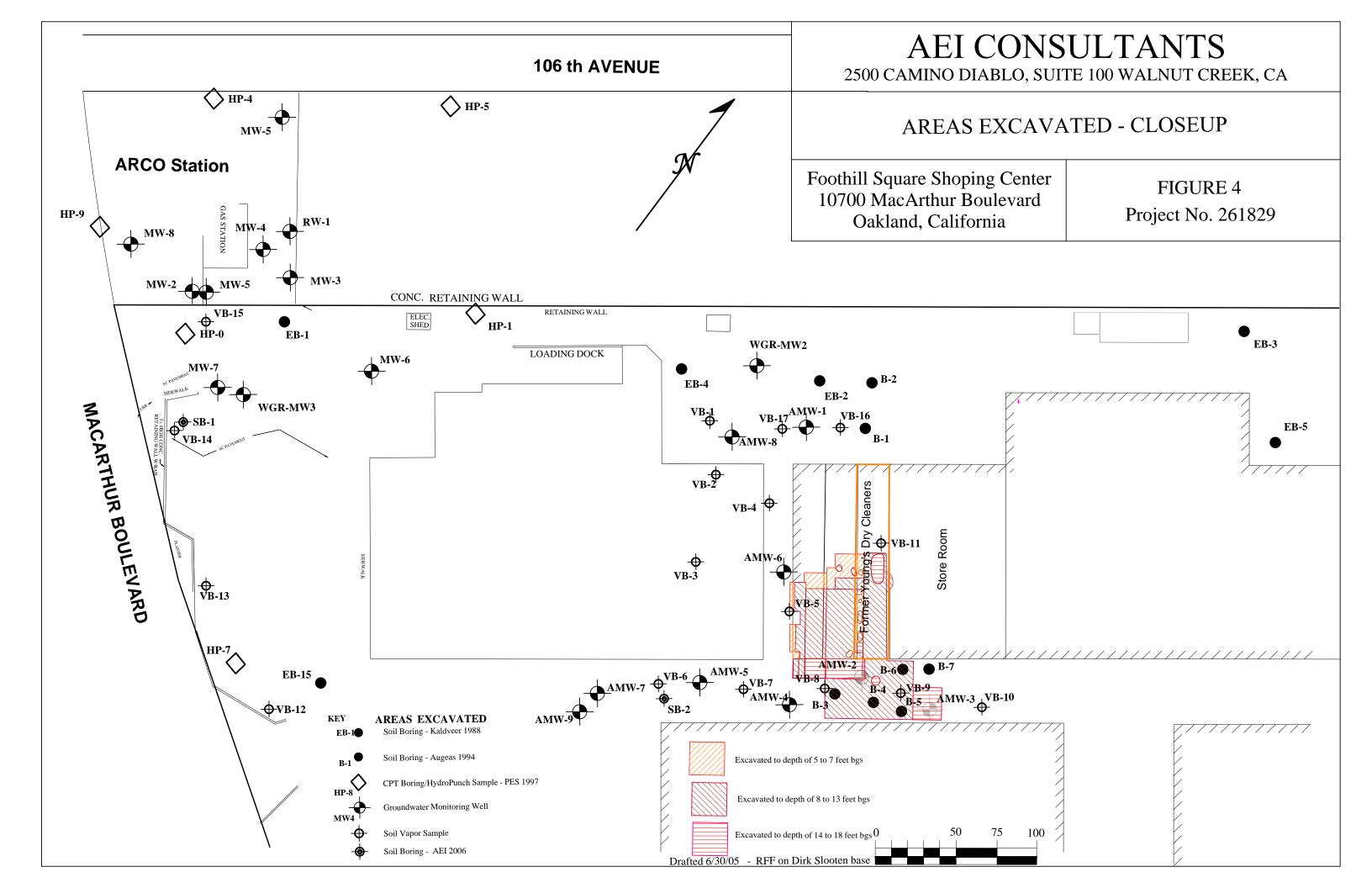
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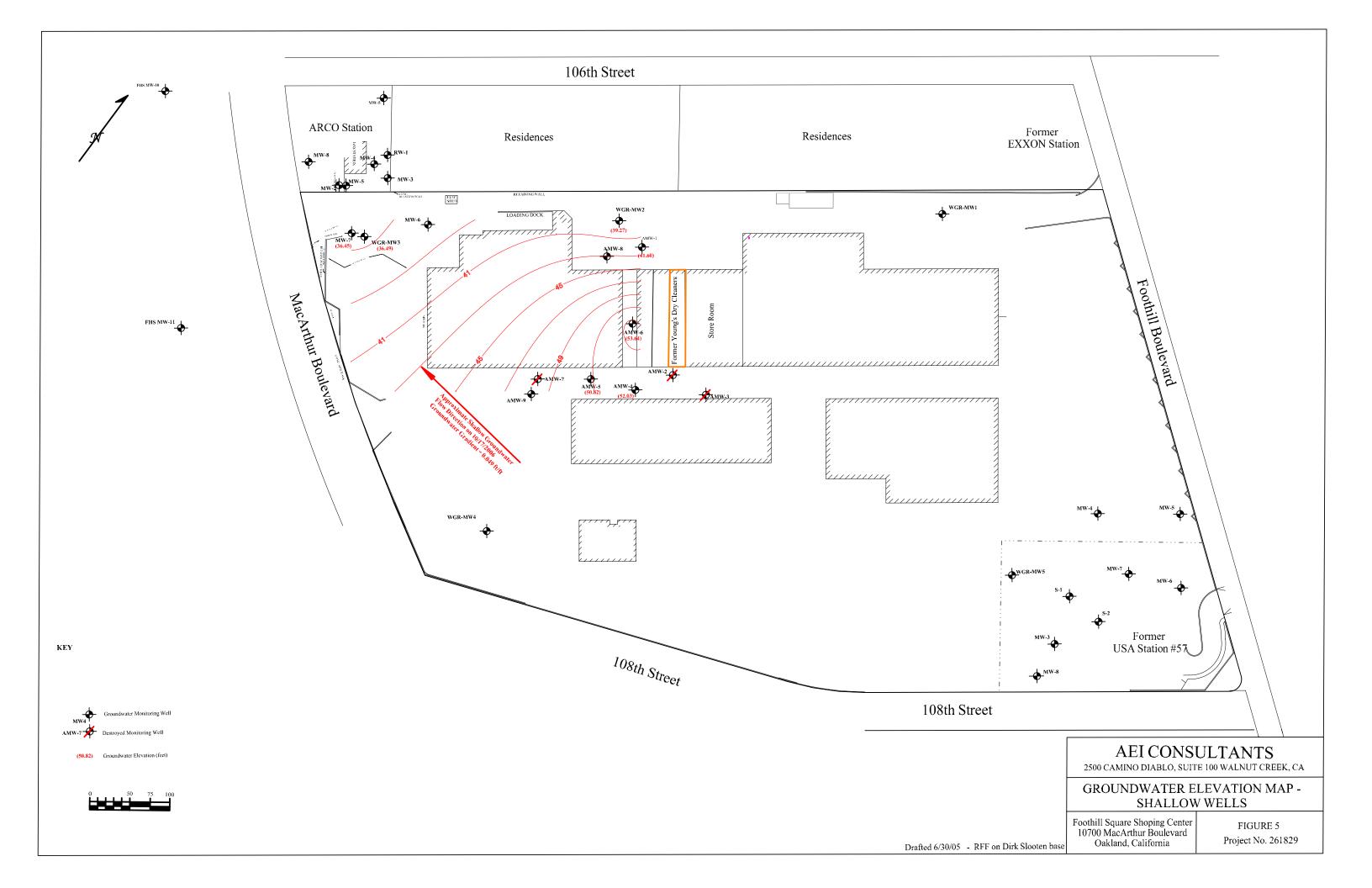
SITE LOCATION MAP

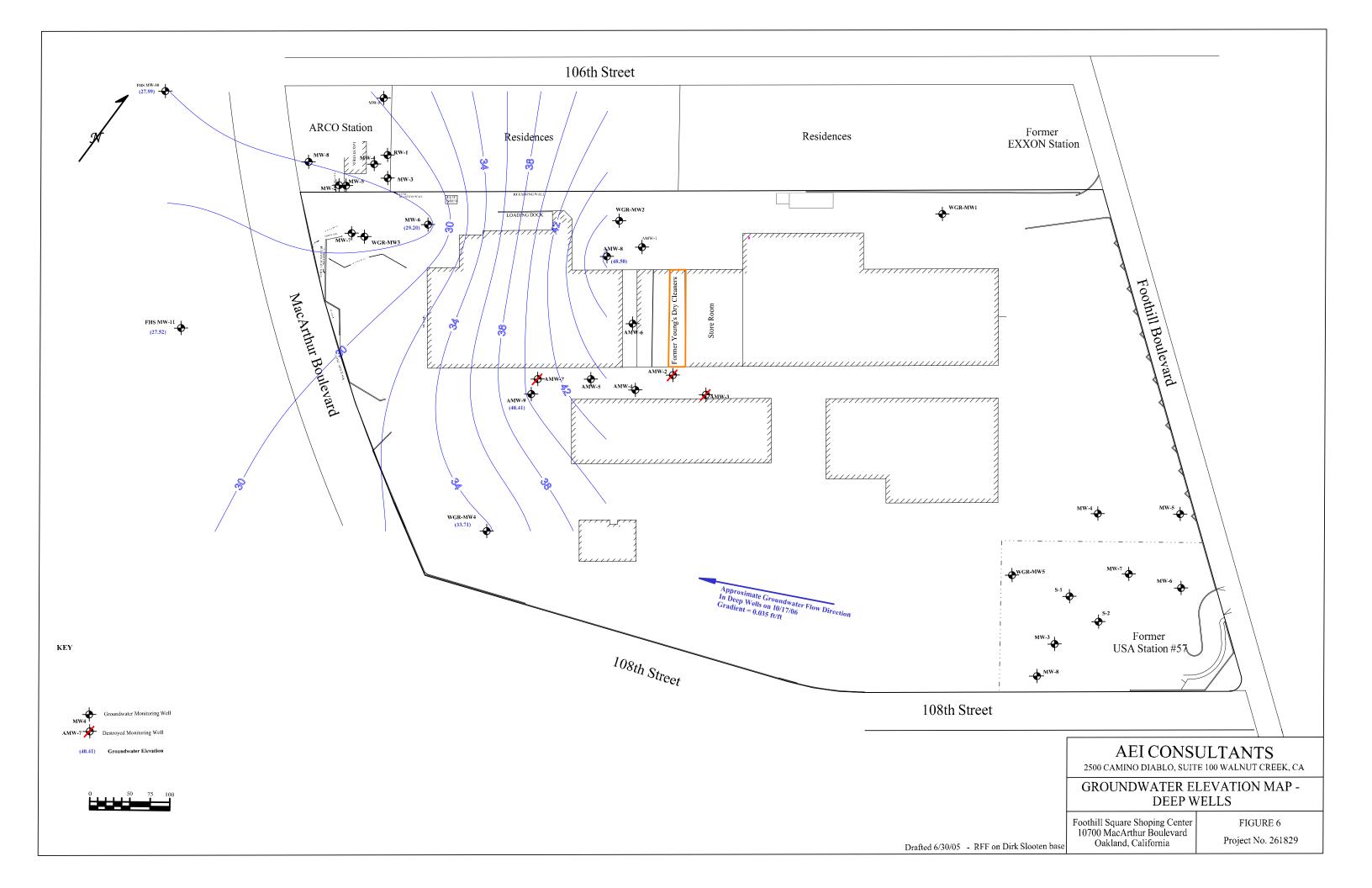
10700 MACARTHUR BLVD OAKLAND, CALIFORNIA FIGURE 1
PROJECT No. 261829

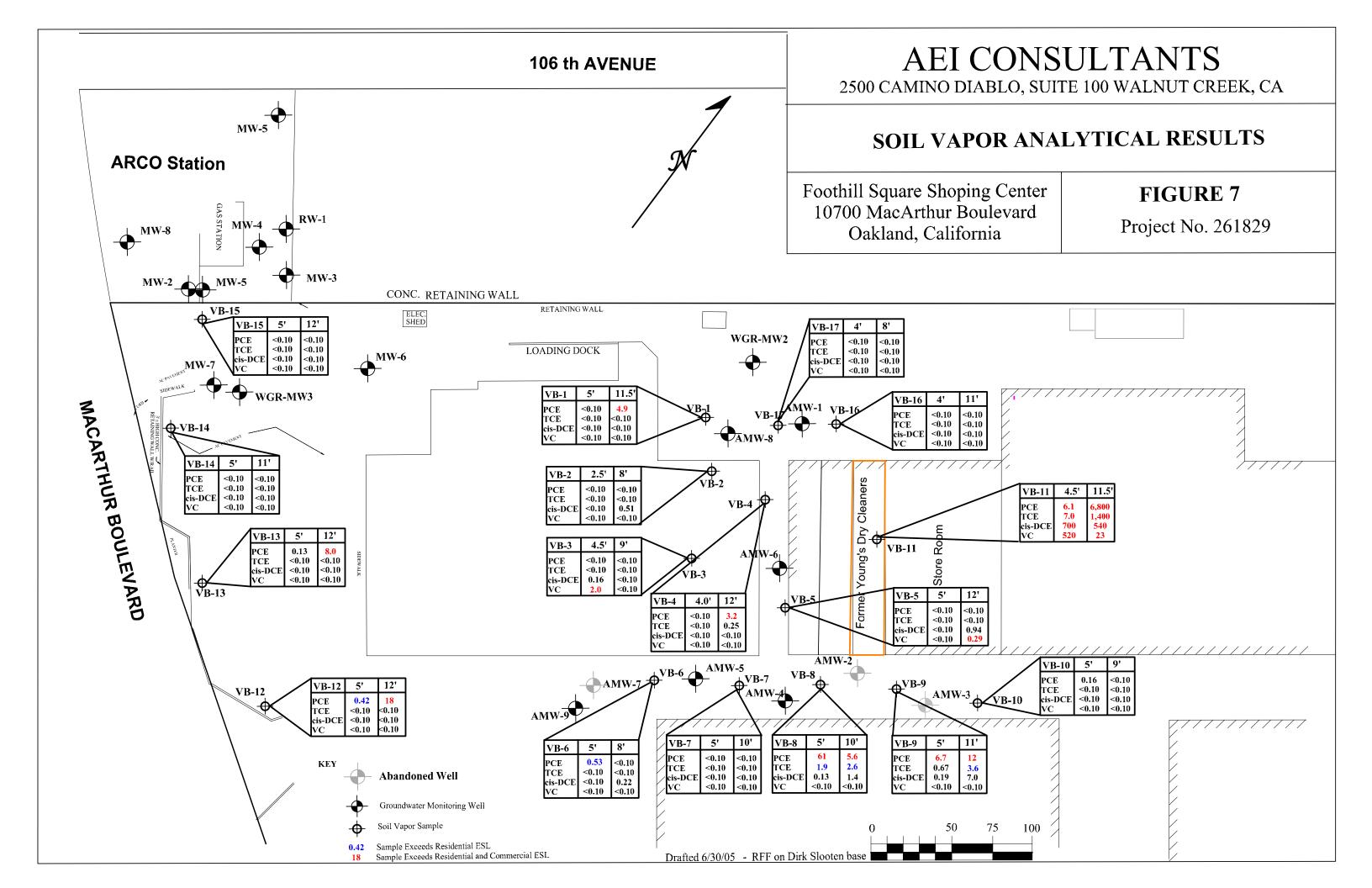


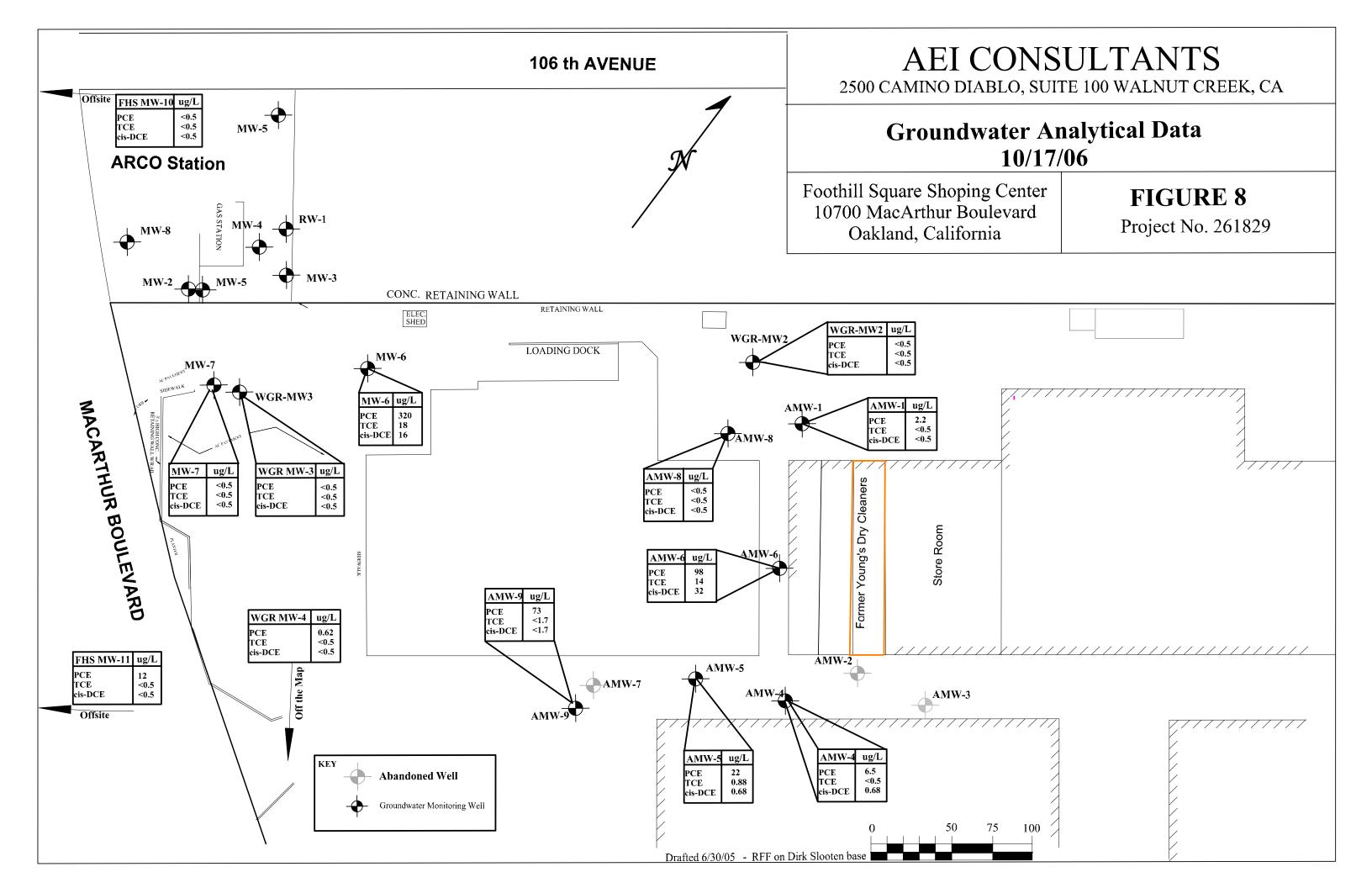


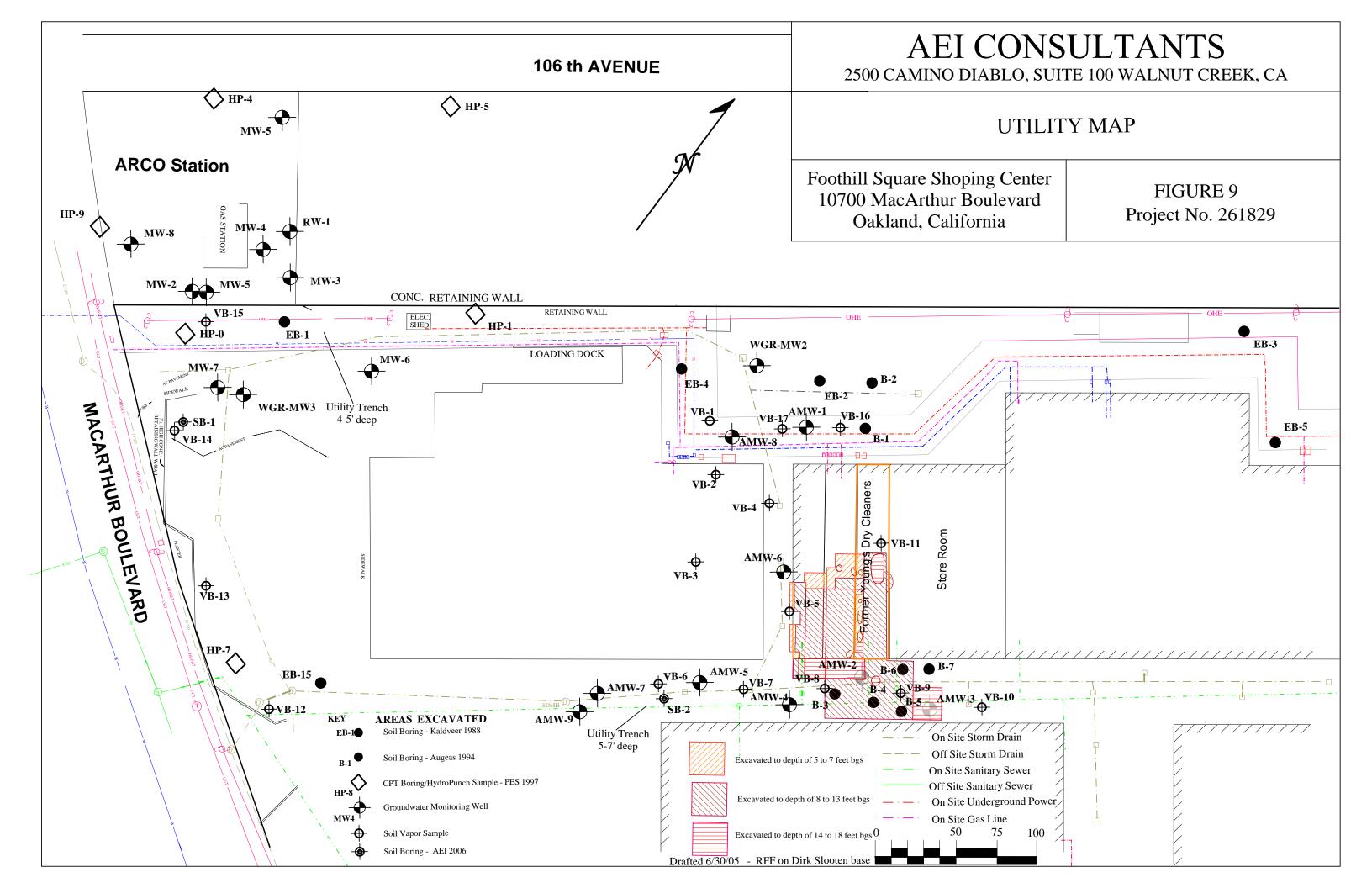












TABLES

TABLE 1 Summary of Historical Analytical Results for Soil - VOCs Results of Additional Investigation Foothill Square Shopping Center, 10700 MacArthur Blvd., Oakland, California

Sample	Sampled	Depth	Date		Concentra	ations reported	in microgram	s per kilogra	am (mg/kg)		Comments
Location	Ву	(ft bgs)	Sampled	PCE	TCE	c-1,2-DCE	t-1,2-DCE	1,1-DCE	1 ,1,1- TCA	VC	
WGR MW-1	WGR	20	12/5/1988	<5	<5	<5	<5	<5	<5	<5	
		31.5	12/5/1988	<1	<1	<1	<1	<1	<1	<1	
WGR MW-2	WGR	20	12/5/1988	<1	<1	<1	<1	<1	<1	<1	
		40.5	12/5/1988	<1	<1	<1	<1	<1	<1	<1	
WGR MW-3	WGR	18	12/6/1988	<1	<1	<1	<1	<1	<1	<1	
		38.5	12/6/1988	<2	<2	<2	<2	<2	<2	<2	
WGRMW-4	WGR	14.5	12/7/1988	<1	<1	<1	<1	<1	<1	<1	
		49	12/7/1988	<1	<1	<1	<1	<1	<1	<1	
WGRMW-4	WGR	14.5	12/8/1988	<5	<5	<5	<5	<5	<5	<5	
B-2	Augeus	6	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		11	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		16	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		21	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		24	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
B-3	Augeus	6	10/7/1994	15	<8	<5	<6	<12	<12	<20	Soil Excavated
		13	10/7/1994	<10	<8	<5	<6	<12	<12	< 20	
		16	10/7/1994	12	<8	<5	<6	<12	<12	< 20	
		21	10/7/1994	27	<8	<5	<6	<12	<12	< 20	
B-4	Augeus	5.5	10/7/1994	1,600	150	120	<6	<12	<12	< 20	Soil Excavated
		11	10/7/1994	70	<8	22	<6	<12	<12	< 20	Soil Excavated
		16	10/7/1994	100	<8	9	<6	<12	<12	< 20	
		21	10/7/1994	30	<8	<5	<6	<12	<12	<20	
B-5	Augeus	6.5	11/3/1994	1,600	<5	<5	<5	<5	<5	<10	Soil Excavated
		11	11/3/1994	450	<5	<5	<5	<5	<5	<10	Soil Excavated
		16	11/3/1994	440	<5	<5	<5	<5	<5	<10	
		21	11/3/1994	<5	<5	<5	<5	<5	<5	<10	
		26	11/3/1994	<5	<5	<5	<5	<5	<5	<10	
B-6	Augeus	11	11/3/1994	5,000	<5	<5	<5	<5	<5	<10	Soil Excavated
		15.5	11/3/1994	590	<5	<5	<5	<5	<5	<10	
		21	11/3/1994	<5	<5	<5	<5	<5	<5	<10	
		26	11/3/1994	<5	<5	<5	<5	<5	<5	<10	
B-7	Augeus	10.5	11/23/1994	38	<5	<5	<5	<5	<5	<10	
		15.5	11/23/1994	60	<5	<5	<5	<5	<5	<10	
		20.5	11/23/1994	<5	<5	<5	<5	<5	<5	<10	
		25.5	11/23/1994	<5	<5	<5	<5	<5	<5	<10	

TABLE 1 Summary of Historical Analytical Results for Soil - VOCs Results of Additional Investigation Foothill Square Shopping Center, 10700 MacArthur Blvd., Oakland, California

Sample	Sampled	Depth	Date				in microgram				Comments
Location	By	(ft bgs)	Sampled	PCE	TCE	c-1,2-DCE	t-1,2-DCE	1,1-DCE	1 ,1,1- TCA	VC	
B-8	Augeus	6	3/23/1995	< 0.5	< 0.5	-	< 0.5	-	< 0.5	<1.0	
AMW-1	Augeus	4	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
	C	6	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		11	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		16	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		21	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		26	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		31	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
		34	9/12/1994	<5	<5	<5	<5	<5	<5	<5	
AMW-2	Augeus	10	9/30/1994	22,000	50	250	<6	<12	<12	<20	Soil Excavated
		15	9/30/1994	90,000	600	210	<6	<12	<12	< 20	Soil Excavated
		20	9/30/1994	400	20	30	<6	<12	<12	< 20	
		25	9/30/1994	30	<8	<5	<6	<12	<12	< 20	
AMW-3	Augeus	5.5	11/18/1994	6	<5	<5	<5	<5	<5	<10	Soil Excavated
		10	11/18/1994	390	<5	<5	<5	<5	<5	<10	Soil Excavated
		15.5	11/18/1994	59	<5	<5	<5	<5	<5	<10	Soil Excavated
		20.5	11/18/1994	820	<5	<5	<5	<5	<5	<10	
		25.5	11/18/1994	1,400	<5	<5	<5	<5	<5	<10	
		30	11/18/1994	210	<5	<5	<5	<5	<5	<10	
AMW-4	Augeus	6	3/22/1995	870	<5	-	<5	-	<5	<10	
		11	3/22/1995	13	< 0.5	-	< 0.5	-	< 0.5	<1.0	
		16	3/22/1995	7.5	< 0.5	-	< 0.5	-	< 0.5	<1.0	
		21	3/22/1995	5.3	< 0.5	-	< 0.5	-	< 0.5	<1.0	
		26	3/22/1995	< 0.5	21	-	< 0.5	-	< 0.5	<1.0	
AMW-5	Augeus	6	3/22/1995	1.1	< 0.5	-	< 0.5	-	< 0.5	<10	
		11	3/22/1995	< 0.5	< 0.5	-	< 0.5	-	< 0.5	<1.0	
		16	3/22/1995	< 0.5	< 0.5	-	< 0.5	-	< 0.5	<1.0	
		21	3/22/1995	< 0.5	< 0.5	-	< 0.5	-	< 0.5	<1.0	
		26	3/22/1995	< 0.5	< 0.5	-	< 0.5	-	< 0.5	<1.0	
		31	3/22/1995	< 0.5	< 0.5	-	< 0.5	-	< 0.5	<1.0	
AMW-6	Augeus	6	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<10	
		11	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		16.5	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		21	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		26	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	

TABLE 1 Summary of Historical Analytical Results for Soil - VOCs Results of Additional Investigation Foothill Square Shopping Center, 10700 MacArthur Blvd., Oakland, California

Sample	Sampled	Depth	Date		Concentrat	ions reported	in micrograms	s per kilogra	m (mg/kg)		Comments
Location	Ву	(ft bgs)	Sampled	PCE	TCE	c-1,2-DCE	t-1,2-DCE	1,1-DCE	1 ,1,1- TCA	VC	
AMW-7	Augeus	6	8/2/1998	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<10	
		11.5	8/2/1998	33	14	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		16	8/2/1998	60	10	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		21	8/2/1998	85	11	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		26	8/2/1998	210	39	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
AMW-8	Augeus	6	2/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<10	
		11	2/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		16.5	2/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		21	2/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		26	2/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		31.5	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		36.5	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		41	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		46	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		51.5	8/1/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
AMW-9	Augeus	5	7/31/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		9.5	7/31/1995	29	17	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		14.5	7/31/1995	120	31	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		19.5	7/31/1995	27	7.7	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		24.5	7/31/1995	110	2.1	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		31	8/2/1995	30	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		36	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		41	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		45	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		51	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	
		54.5	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	

Table 2: Well Construction Details, Foothill Shoping Center, 10700 MacArthur Blvd., Oakland, California

Well ID	Date Drilled	Elevation	Boring Depth	Zone	Casing depth	Casing Size	Slotted Casing	Slot Size	Blank Casing	Sand Interval	Sand Size	Bentonite Interval	Grout Interval
		(ft msl)	(ft)			(inches)	(ft)	(in)	(ft)	(ft)		(ft)	(ft)
Young's Cleaners													
WGR-MW-1	12/05/88	65.97	33.5	Shallow	28.5	2.0	23.5-28.5						
WGR-MW-2	12/06/88	63.18	40.50	Shallow	28.00	2.0	23-28						
WGR-MW-3	12/07/88	58.34	42.00	Shallow	27.00	2.0	22-27						
WGR-MW-4	12/07/88	60.02	50.50	Deep	45.00	2.0	25-45						
WGR-MW-5	12/8/1988	68.94	31.50	Shallow	31.5	2.0	23.5-31.5						
AMW-1	09/12/94	64.57	34.0	Shallow	34.0	2.0	24-34	0.020	0.5-24	23-34	2/12	21-23	0.75-21
AMW-2	09/30/94	65.33	29.0	Shallow	29.0	2.0	19-29	0.020	0.5-19	17-29	2/12	16-17	0.75-16
AMW-3	11/18/94	65.09	29.0	Shallow	29.0	2.0	19-29	0.020	0.5-19	18-29	2/12	16-18	0.75-16
AMW-4		64.79	25.0	Shallow	25.0	2.0	15-25						
AMW-5		64.97	30.0	Shallow	30.0	2.0	20-30						
AMW-6		65.1	25.0	Shallow	25.0	2.0							
AMW-7		64.24	25.0	Shallow	25.0	2.0							
AMW-8		64.6	45.0	Deep	45.0	2.0							
AMW-9		63.5	54.3	Deep	54.3	2.0							
FHS MW-10	07/15/97	52.37	52.0	Deep	52	2.0	42-52	0.010	0.5-42	41-52	2/12	39-41	0.75-39
FHS MW-11	07/14/97	54.06	64.5	Deep	64	2.0	59-64	0.010	0.5-59	58-64	2/12	56-58	0.75-56

Table 2: Well Construction Details, Foothill Shoping Center, 10700 MacArthur Blvd., Oakland, California

Well ID	Date Drilled	Elevation	Boring Depth	Zone	Casing depth	Casing Size	Slotted Casing	Slot Size	Blank Casing	Sand Interval	Sand Size	Bentonite Interval	Grout Interval
		(ft msl)	(ft)			(inches)	(ft)	(in)	(ft)	(ft)		(ft)	(ft)
Young's Cleane	ers												
ARCO Station				.									
MW-2	03/22/89	55.10	28.5	Shallow	25.5	4.0	15.5-25.5						
MW-7	06/16/92	58.64	37.5	Shallow	37.5	2.0	17.5-37.5						
MW-3	03/21/89	56.55	40.5	Deep	38.4	2.0	20-40						
MW-1	03/21/89	55.92	40.5	Deep	39.0	2.0	19-39						
RW-1	NA	56.32	48.9			6.0							
MW-5	04/06/89	55.43	49.0	Deep	47.5	4.0	32.47.5						
MW-8	NA	53.65	49.0	Deep	49.0	4.0	29-49						
MW-4	03/29/89	55.98	53.5	Deep	50.0	2.0	30-50						
MW-6	06/16/92	61.78	61.0	Deep	56.0	2.0	37.5-56						
USA Gas Stat	ion # 57												
S-1	NA	78.68	43.0	Bedrock	40.0	3.0	20-40	0.020	0-20	17-40		15-17	0-15
S-2	NA	80.93	40.0	Bedrock	40.0	3.0	21-40	0.020	0-20	17-40		15-17	0-15
MW-3	2/28/1995	80.32	44.0	Bedrock	44.0	4.0	24-44	0.020	0-24	22-44	#3	20-22	0-20
MW-4	11/20/1995	76.42	40.5	Shallow	40.0	4.0	10-40	0.020	0-10	9-40.5	#3	8-9	0-8
MW-5	11/20/1995	80.52	41.5	Shallow	40.0	4.0	10-40	0.020	0-10	9-40.5	#3	8-9	0-8
MW-6	11/20/1995	81.64	40.5	Shallow	40.0	4.0	10-40	0.020	0-10	9-40.5	#3	8-9	0-8
MW-7	11/21/1995	78.86	41.0	Shallow	40.0	4.0	10-40	0.020	0-10	9-40.5	#3	8-9	0-8
MW-8	11/21/1995	79.55	35.5	Bedrock	35.00	4.0	10-35	0.020	0-10	9-40.5	#3	8-9	0-8

Table 3 Groundwater Level Data 10700 MacArthur Blvd., Oakland, California

Well ID	Date	Screen Interval	Well Elevation	Depth to Water	Groundwater Elevation
(Aquifer zone)	Date	(ft bgs)	(ft msl)	(ft)	(ft msl)
AMW-1	1/29/1999	24-34	64.51	23.01	41.50
(Shallow)	5/5/1999	2.0.	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
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 3/25/2003		64.79	12.14	52.65 53.76
	10/2/2003		64.79 64.79	11.03 12.33	53.76 52.46
	10/17/2006		64.79	12.33 12.76	52.40 52.03
AMW-5	1/29/1999	20-30	64.97	13.87	51.10
(Shallow)	5/5/1999	20-30	64.97	12.83	52.14
(Shanow)	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
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 10/17/2006		65.10 65.10	14.74 11.46	50.36 53.64
		** 1			
AMW-7 (Shallow)	1/29/1999 5/5/1999	Unknown	64.24 Well C	14.91 overed during constu	49.33
				•	
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 46.04
	1/20/2000		64.55 64.55	18.51 16.71	46.04 47.84
	8/8/2000 2/15/2001		64.55	17.31	47.84 47.24
	2/15/2001 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

Table 3: Continued

Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (Potentia (ft msl)
		. 87		` '	`
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
	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
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
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
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 3/25/2003		60.02 60.02	27.09	32.93 34.27
	10/2/2003		60.02	25.75 27.41	32.61
	10/17/2006		60.02	26.31	33.71
FHS MW-10		42.52			
(Deep)	1/29/1999 5/5/1999	42-52	52.34 52.34	23.91 20.55	28.43 31.79
(Deeh)	10/9/1999		52.34 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

Table 3: Continued

Well ID (Aquifer zone)	Date	Screen Interval (ft bgs)	Well Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (Potenti (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
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
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

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

Table 4
Groundwater Sample Analytical Data
10700 MacArthur Blvd., Oakland, California

Well (aguifer zone)	Date	Consultant	cis 1,2 DCE µg/L	trans 1,2 DCE µg/L	PCE μg/L	TCE µg/L	VHCs* µg/L
AMW-1	3/23/95	Augous		ND<0.5	ND<0.5	ND<0.5	ND<0.5
		Augeus	-				
(shallow - 29)	6/21/95 9/11/95	Augeus	-	ND<0.5 ND<0.5	ND<0.5	ND<0.5	ND<0.5
		Augeus PES	- ND<0.5		ND<0.5	ND<0.5 ND<0.5	ND<0.5 ND<0.5
	4/16/96			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<>
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 1017/06	AEI AEI	2.8 9.9	ND<0.5 ND<0.5	50 6.5	2.8 ND<0.5	ND<0.5 ND<rl< b=""></rl<>
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<1.0 ND<0.5	ND<0.5	20	0.58	ND<1.0 ND<0.5
	10/2/03	AEI	0.68	ND<0.5	20 22	0.88	ND<0.5 ND <rl< td=""></rl<>
	10/1//00	ALI	V.U0	コンシン	44	U-00	コンシー

Mathwork	Well			cis 1,2 DCE	trans 1,2 DCE	PCE	TCE	VHCs*
(shallow - 25)	(aguifer zone)	Date	Consultant	μg/L	μg/L	μg/L	μg/L	μg/L
7/17/96 PES ND-30 ND-30 3300 280 NR 10/23/96 PES ND-30 ND-30 2900 140 NR 1/29/99 AEI 270 77 2400 390 ND-30 5/59/9 AEI 370 110 2700 470 ND-47 9/10/99 AEI 370 110 2700 470 ND-47 9/10/99 AEI 190 49 1400 250 ND-30 8/8/00 AEI 190 49 1400 250 ND-30 8/8/00 AEI 150 56 1100 180 ND-25 8/8/00 AEI 150 56 1100 180 ND-25 8/29/01 AEI 190 40 930 200 ND-25 8/29/01 AEI 177 17 780 110 ND-10 9/27/02 AEI 150 37 1300 170 ND-25 9/27/02 AEI 66 13 440 60 ND-10 10/17/2006 AEI 32 4.9 98 14 ND-81 AMW-7 9/13/95 Augeus NR ND-25 2350 340 NR (shallow) 4/16/96 PES 2200 60 2300 500 NR 7/17/96 PES 3100 50 3400 610 NR 9/29/97 PES 33 20 520 100 NR 10/23/96 PES 3100 50 3400 610 NR 10/23/96 PES 3100 50 3400 610 NR 10/23/96 PES ND-0.5 ND-0.5 0.8 ND-0.5 ND-0.5 10/23/96 PES ND-0.5 ND-0.5 0.8 ND-0.5 ND-0.5 9/29/97 PES 33 20 520 100 NR 10/23/96 PES ND-0.5 ND-0.5 0.8 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 10/23/96 PES ND-0.5 ND-0.5 ND-0.5 ND-0								
1023906 PES ND≥30 ND≥30 2900 140 NR 12999 AEI 270 77 2400 390 ND≥63 5/599 AEI 370 110 2700 470 ND≥73 9/1099 AEI 190 49 1400 250 ND≥63 12000 AEI 150 56 1100 180 ND≥25 8/800 AEI 150 56 1100 180 ND≥25 8/8901 AEI 77 17 780 110 ND≥45 8/2991 AEI 77 17 780 110 ND≥45 9/2702 AEI 67 ND≥17 490 91 ND≥17 3/25/2003 AEI 66 13 440 60 ND≥16 10/17/2006 AEI 32 49 98 14 ND≥31 10/17/2006 AEI 32 49 98 14 ND≥41 AMW-7 9/1395 Augeus NR ND≥25 2350 340 NR 10/2396 PES 3100 50 3400 530 NR 10/2396 PES 3100 50 3400 500 NR 12999 AEI 22 ND≥3 95 12 ND≥3 12999 AEI ND≥05 ND≥05 ND≥05 ND≥05 ND≥05 10/2396 PES ND≥05 ND≥05 ND≥05 ND≥05 ND≥05 10/2396 PES ND≥05 ND≥05	(shallow - 25)							
9/29/97 PES 2200 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-25 8/8/00 AEI 190 40 930 200 ND-25 8/8/00 AEI 190 40 930 200 ND-25 8/8/01 AEI 190 40 930 200 ND-25 8/29/01 AEI 150 37 1300 170 ND-25 9/27/02 AEI 150 37 1300 170 ND-25 9/27/02 AEI 67 ND-17 490 91 ND-17 10/17/2006 AEI 32 4.9 98 14 ND-81 10/17/2006 AEI 32 4.9 98 14 ND-81 AMW-7 9/13/95 Augeus NR ND-25 2350 340 NR 10/23/96 PES 2100 ND-30 2400 530 NR 10/23/96 PES 3100 50 3400 610 NR 9/29/97 PES 3100 50 3400 610 NR 9/29/97 PES 3100 50 3400 610 NR 1/29/99 AEI 22 ND-3 95 12 ND-3 5/5/99 AEI 22 ND-3 95 ND-25 ND-25 4/16/96 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								
1/2999 AEI 270 77 2400 390 ND-63								
5/5/99								
9/1099 AEI 190 49 1400 250 ND-236 Reserved 1/2000 AEI 210 ND-235 1600 270 ND-235 Reserved Reserve								
1/20/00								
88,000 AEI 150 56 1100 180 ND-25 829901 AEI 177 17 780 110 ND-10 3/12/02 AEI 150 37 1300 170 ND-25 9/27/02 AEI 150 37 1300 170 ND-25 3/25/2003 AEI 94 ND-33 740 110 ND-31 10/22/003 AEI 94 ND-33 740 110 ND-31 10/22/003 AEI 66 13 440 60 ND-10 10/17/2006 AEI 32 4.9 98 14 ND-RI AMW-7 9/13/95 Augeus NR ND-25 2350 340 NR (shallow) 4/16/96 PES 2200 60 2300 500 NR 10/23/96 PES 3100 50 3400 610 NR 11/29/99 AEI 22 ND-3 95 12 ND-3 11/29/99 AEI 22 ND-3 95 12 ND-3 10/23/96 PES 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 10/23/96 PES ND-0.5 ND-0.5								
2/15/01								
R/29/01 AEI 77								
3/12/02								
9/27/02								
3/25/2003 AEI 94 ND-33 740 110 ND-23								
10/2/2003 AEI 66								
MW-7								
AMW-7								
(shallow)		10/17/2006	AEI	32	4.9	98	14	ND <rl< th=""></rl<>
7/17/96	AMW-7	9/13/95	Augeus	NR	ND<25	2350	340	NR
10/23/96 PES 3100 50 3400 610 NR 1/29/99 AEI 22 ND-3 95 12 ND-3 5/5/99 AEI 22 ND-3 95 12 ND-3 5/5/99 AEI 22 ND-3 95 12 ND-3 5/5/99 AEI Well Covered During Construction AMW-8 9/13/95 Augeus - ND-25 95 ND-25 ND-0.5 6(dep - 45) 4/16/96 PES 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 10/23/96 PES 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 1/20/00 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 8/8/00 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 8/8/901 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 8/29/01 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 9/27/02 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 9/27/02 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 10/20/3 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 10/17/06 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5 10/20/3 AEI ND-0.5 ND-0.5 ND-0.5 ND-0.5	(shallow)	4/16/96	PES	2200	60	2300	500	NR
9/29/97		7/17/96	PES	2100	ND<30	2400	530	NR
1/29/99 AEI 22 ND<3 95 12 ND<3		10/23/96	PES	3100	50	3400	610	NR
AMW-8		9/29/97	PES	33		520	100	NR
AMW-8 9/13/95 Augeus - ND<25 95 ND<25 ND<25		1/29/99	AEI	22	ND<3	95	12	ND<3
(deep - 45) 4/16/96 PES ND<0.5 ND<0		5/5/99	AEI		Well Cov	vered During Co	nstruction	
(deep - 45) 4/16/96 PES ND<0.5 ND<0	AMW-8	9/13/95	Augens	_	ND<25	95	ND<25	ND<25
7/17/96 PES ND<0.5 ND<0.5 1.6 ND<0.5				ND<0.5				
10/23/96 PES ND<0.5 ND	(223 P 33)							
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 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 8/29/01 AEI ND<0.5 ND<0.5 1.7 ND<0.5 8/29/01 AEI ND<0.5 ND<0.5 1.7 ND<0.5 8/29/01 AEI ND<0.5 ND<0.5 NS NS NS 3/12/02 AEI ND<0.5 ND<0.5 7.5 ND<0.5 9/27/02 AEI NS NS NS NS NS NS 3/25/03 AEI ND<0.5 ND<0.5 ND<0.5 ND<0.5 10/2/03 AEI NS NS NS NS NS NS 10/17/06 AEI ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND								
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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 NS 3/25/03 AEI ND<0.5 ND<0.5 ND<0.5 ND<0.5 10/2/03 AEI NS NS NS NS NS NS 10/17/06 AEI ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5		8/29/01						
3/25/03 AEI ND<0.5 ND<		3/12/02	AEI			7.5		ND<0.5
10/2/03		9/27/02	AEI	NS	NS	NS	NS	NS
Martiago		3/25/03	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
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 NR 10/23/96 PES ND<3 ND<3 190 4 NR 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 ND<4 5/5/99 AEI ND<2.5 ND<2.5 ND<2.5 9/10/99 AEI ND<2.1 ND<2.1 P9 ND<2.1 ND<2.1 ND<2.1 1/20/00 AEI ND<2.5		10/2/03	AEI	NS	NS	NS	NS	NS
(deep - 54) 4/16/96 PES 7 ND<3		10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< th=""></rl<>
(deep - 54) 4/16/96 PES 7 ND<3	AMW-9	9/13/95	Augeus	NR	ND<25	170	ND<25	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 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 1 ND<2.1 99 ND<2.1 ND<2.1 1/20/00 AEI ND<0.5 ND			U					
10/23/96 PES ND<3	/							
9/29/97 PES ND<3								
1/29/99 AEI ND<4								
5/5/99 AEI ND<2.5		1/29/99						
9/10/99 AEI ND<2.1							ND<2.5	ND<2.5
1/20/00 AEI ND<0.5								ND<2.1
8/8/00 AEI ND<2.5								ND<0.5
2/15/01 AEI ND<1.0		8/8/00		ND<2.5	ND<2.5		ND<2.5	ND<2.5
8/29/01 AEI ND<2.5 ND<2.5 98 ND<2.5 ND<2.5 3/12/02 AEI ND<2.5 ND<2.5 100 ND<2.5 ND<2.5 9/27/02 AEI ND<5.0 ND<5.0 80 ND<5.0 ND<5.0				ND<1.0	ND<1.0		ND<1.0	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		8/29/01		ND<2.5	ND<2.5		ND<2.5	ND<2.5
9/27/02 AEI ND<5.0 ND<5.0 80 ND<5.0 ND<5.0				ND<2.5	ND<2.5	100	ND<2.5	ND<2.5
		9/27/02		ND<5.0		80	ND<5.0	ND<5.0
		3/25/03	AEI	4.1	ND<2.5		ND<2.5	ND<2.5
								ND<0.5
								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
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	NS	NS	NS	NS	NS
	3/12/02	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	9/27/02	AEI	NS	NS	NS	NS	NS
	3/25/03	AEI	1.7	ND<1.0	18	2.5	5.0**
	10/6/03	AEI	ND<0.5	ND<0.5	1.4	ND<0.5	1.0**
	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< th=""></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
(uccp 04.5)	5/5/99	AEI	ND<0.5	ND<0.5	7.1	ND<0.5	ND<0.5
	9/10/99	AEI	ND<0.5	ND<0.5	7.5	ND<0.5	ND<0.5
	1/20/00	AEI	ND<0.5	ND<0.5	7.5	ND<0.5	ND<0.5
	8/8/00	AEI	ND<0.5	ND<0.5	38	ND<0.5	ND<0.5
	2/15/01	AEI	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5
	8/29/01	AEI	ND<0.5	ND<0.5	16	ND<0.5	ND<0.5
	3/12/02	AEI	ND<0.5	ND<0.5	13	ND<0.5	0.77**
	9/27/02	AEI	ND<1	ND<1	13	ND<1	6.4** 1.1***
	3/25/03	AEI	0.78	ND<0.5	12	0.88	4.0** 1.0****
	10/2/03	ALI	0.78	Well Inac		0.88	4.0 1.0
	10/17/06	AEI	ND<0.5	ND<0.5	20	ND<0.5	ND <rl< th=""></rl<>
	10/1//00	71121	110 (0.5	110 10.5	20	110 (0.5	NECKE
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 49	ND<10	NR
	1/29/99 5/5/99	AEI AEI	1.4 19	ND<1.3 ND<11	530	3 38	ND<1.3 ND<11
	9/10/99	AEI	27	ND<12	560	53	ND<11 ND<12
	1/20/00	AEI	18	ND<8.5	660	31	ND<12 ND<8.5
	8/8/00	AEI	98	ND<8.3	1700	170	ND<8.3 ND<5
	2/15/01	AEI	98 64	ND<10	650	87	ND<10
	8/29/01	AEI	19	ND<5.0	550	38	ND<10 ND<5.0
	3/12/02	AEI	61	ND<3.0 ND<20	1200	36 99	ND<3.0 ND<20
	9/27/02	AEI	ND<12	ND<12	300	99 27	ND<20 ND<12
	3/25/03	AEI	2.6	ND<2.5	49	3.8	ND<12 ND<2.5
	10/2/03	AEI	13	ND<2.3 ND<5.0	340	21	ND<2.3 ND<5.0
	10/2/03	AEI	16	ND<5.0	320	18	ND<3.0
	10/1//00	ALI	10	コカンシウ	<i>34</i> 0	10	TAD/ILL

Well (aguifer zone)	Date	Consultant	cis 1,2 DCE μg/L	trans 1,2 DCE µg/L	PCE µg/L	TCE µg/L	VHCs* µg/L
(10	, 0
MW-7	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*****<>
WGR MW-2 (Shallow)	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
WGR MW-3 (Shallow)	10/17/06	AEI	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND <rl< td=""></rl<>
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
	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<>

Table 2 Notes:

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

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

NR = Not Reported

 $\mu g/L = micrograms per liter (parts per billion)$

 $Tetrachloroethene\ (PCE)$

Trichloroethene (TCE)

RL = Reporting Limit

^{*}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)

NS = Well not sampled

 $^{^{*}}$ Available data from AMW-7 is presented although this well was covered during 1999 construction activities

Table 5: Soil Vapor Analytical Results

10700 MacArthur Blvd., Oakland, California

Sample	Date	Depth	PCE	TCE	cis-1,2-DCE	trans-1,2 DCE	Vinyl Chloride
ID		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L
VB-1-5	10/12/2006	5	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-1-11.5	10/12/2006	11.5	4.9	0.44	ND<0.10	ND<0.10	ND<0.10
VB-2-2.5	10/12/2006	2.5	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-2-8	10/12/2006	8	ND<0.10	ND<0.10	0.51	ND<0.10	ND<0.10
VB-3-4.5	10/12/2006	4.5	ND<0.10	ND<0.10	0.16	ND<0.10	2.0
VB-3-9	10/12/2006	9	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-4-4	10/13/2006	4	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-4-12	10/13/2006	12	3.2	0.25	ND<0.10	ND<0.10	ND<0.10
VB-5-5	10/13/2006	5	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-5-12 ¹	10/13/2006	12	ND<0.10	ND<0.10	0.94	0.13	0.29
VB-6-5 ²	10/11/2006	5	0.53	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-6-8 ¹	10/11/2006	8	ND<0.10	ND<0.10	0.22	ND<0.10	ND<0.10
VB-7-5	10/12/2006	5	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-7-10	10/12/2006	10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-8-5	10/12/2006	5	61	1.9	0.13	ND<0.10	ND<0.10
VB-8-10	10/12/2006	10	5.6	2.6	1.4	ND<0.10	ND<0.10
VB-9-5 ¹	10/12/2006	5	6.7	0.67	0.19	ND<0.10	ND<0.10
VB-9-11	10/12/2006	11	12	3.6	7.0	ND<0.10	ND<0.10
VB-10-5	10/13/2006	5	0.16	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-10-9	10/13/2006	9	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-11-4.5	10/13/2006	4.5	6.1	7.0	700	170	520
VB-11-11.5	10/13/2006	11.5	6,800	1,400	540	64	23
VB-12-5	10/11/2006	5	0.42	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-12-12	10/11/2006	12	18	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-13-5	10/11/2006	5	0.13	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-13-12	10/11/2006	12	8.0	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-14-5	10/11/2006	5	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-14-11	10/11/2006	11	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-15-5	10/11/2006	5	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-15-12	10/11/2006	12	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10

Sample	Date	Depth	PCE	TCE	cis-1,2-DCE	trans-1,2 DCE	Vinyl Chloride
ID		(feet bgs)	μg/L	µg/L	μg/L	µg/L	µg/L
VB-16-4	10/13/2006	4	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-16-11	10/13/2006	11	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-17-4	10/13/2006	4	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
VB-17-8	10/13/2006	8	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10
Residential Lar		1 1	0.4 1.4	1.2 4.1	7.3 20	15 41	0.032 0.11

Notes:

PCE = Tetrachloroethene

TCE = Trichloroethene

c-1,2-DCE = cis-1,2-Dichloroethene

trans-1,2-DCE = trans-1,2-Dichloroethene

 $\mu g/L = micrograms per liter (ppb)$

bgs = below ground surface

ESL's = Environmental Screening Level for shallow soil gas screening levels.

¹ = Duplicate analysis performed on this sample. Highest results reported on table.

 $^{^2}$ = Purge volume test performed on this sample. Sample reported after 3 purge volumes for all samples.

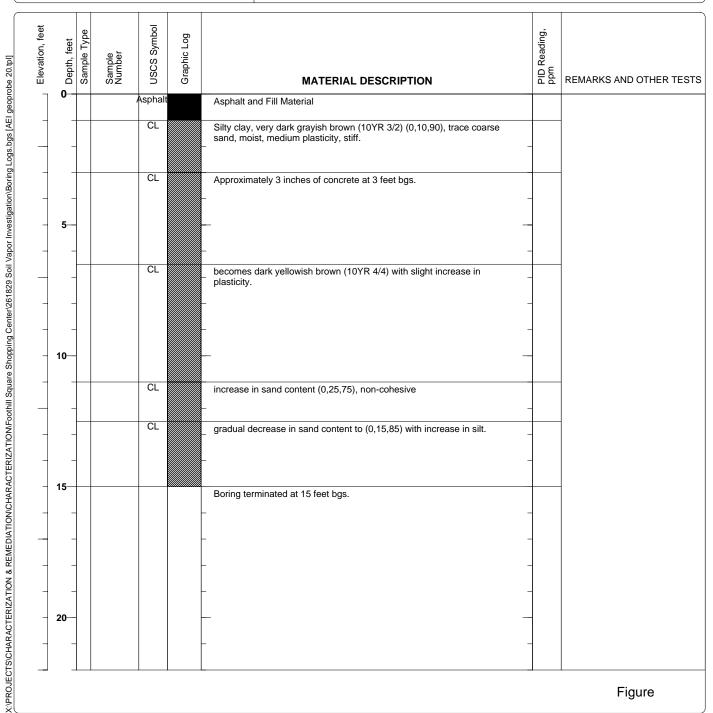
APPENDIX A BORING LOGS & DRILLING PERMITS

Project: Foothill Square Shopoing Center
10700 MacArthur Blvd., Oakland,
California
Project Number: 261829

Log of Boring SB-1

Sheet 1 of 1

Date(s) Drilled October 11, 2006	Logged By Jeremy Smith	Checked By Peter McIntyre
Drilling Method Direct Push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 15 feet bgs
Drill Rig Type Truck Mounted	Drilling Contractor TEG Northern Cal.	Approximate Surface Elevation
Groundwater Level and Date Measured Not Encountered ATD	Sampling Method(s) None	Well Permit.
Borehole Backfill Neat Cement	Location	

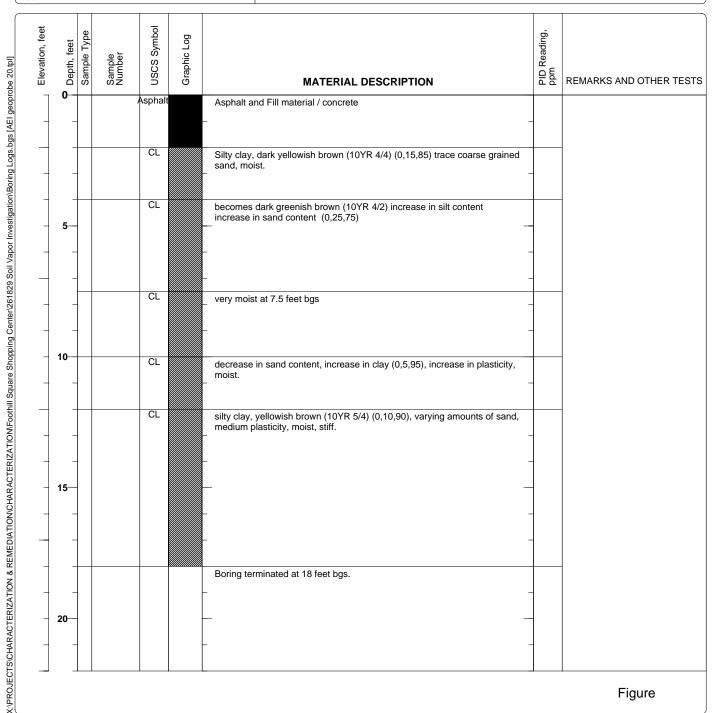


Project: Foothill Square Shopoing Center
10700 MacArthur Blvd., Oakland,
California
Project Number: 261829

Log of Boring SB-2

Sheet 1 of 1

Date(s) October 11, 2006	Logged By Jeremy Smith	Checked By Peter McIntyre
Drilling Method Direct Push	Drill Bit Size/Type 2 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type Truck Mounted	Drilling Contractor TEG Northern Cal.	Approximate Surface Elevation
Groundwater Level and Date Measured Not Encountered ATD	Sampling Method(s) None	Well Permit.
Borehole Backfill Neat Cement	Location	



Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/22/2006 By jamesy Permit Numbers: W2006-0826 Permits Valid from 10/11/2006 to 10/13/2006

City of Project Site: Oakland Application Id: 1158871785168

Site Location: Foothill Square Shopping Center

10700 MacArthur Blvd.

Oakland, CA

Project Start Date: Completion Date: 10/13/2006 10/11/2006

AEI Consultants - Jeremy Smith Phone: 925-944-2899 Applicant:

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

Property Owner: c/o John Jay MacArthur Blvd. Associates Phone: --10700 MacArthur Blvd., Oakland, CA 94605

Client: Phone: --John Jav

10700 MacArthur Blvd., Oakland, CA 94605

Total Due: \$200 00

Receipt Number: WR2006-0437 **Total Amount Paid:**

Payer Name : Jeremy Smith Paid By: VISA PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 19 Boreholes

Driller: TEG - Lic #: 706568 - Method: DP Work Total: \$200.00

Specifications

Permit Issued Dt Expire Dt Hole Diam Max Depth Number **Boreholes** W2006-09/22/2006 01/09/2007 2.00 in. 20.00 ft 0826

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this

Alameda County Public Works Agency - Water Resources Well Permit

permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B

LABORATORY ANALYTICAL REPORT WITH CHAIN OF CUSTODY DOCUMENTATION



TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

3 November 2006

Mr. Jeremy Smith AEI Consultants 2500 Camino Diablo, Suite 200 Walnut Creek, CA 94597

SUBJECT: DATA REPORT - AEI Consultants Project #261829
10700 MacArthur Boulevard, Oakland, California

TEG Project # 61011D

Mr. Smith:

Please find enclosed a data report for the samples analyzed from the above referenced project for AEI Consultants. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 39 analyses on 39 soil vapor samples.

-- 39 analyses on soil vapors for selected volatile organic hydrocarbons by EPA method 8260B.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and calibration data are included in the tables.

1,1 diffuoroethane was used as a leak check compound around the probe rods during the soil vapor sampling. No 1,1 diffuoroethane was detected in any of the vapor samples reported at or above the DTSC recommended leak check compound reporting limit of 10 µg/L of vapor.

TEG appreciates the opportunity to have provided analytical services to AEI Consultants on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak

Director, TEG-Northern California

Phone: (916) 853-8010



TEG Project #61011D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		Probe Blank	Probe Blank	Probe Blank	VB-1-5	VB-1-11.5	VB-2-2.5
SAMPLE DEPTH (feet).	•				5.0	11.5	2.5
PURGE VOLUME.					3	3	3
COLLECTION DATE.	•	10/11/06	10/12/06	10/13/06	10/12/06	10/12/06	10/12/06
COLLECTION TIME.	•	08:35	08:10	08:30	13:52	14:12	12:56
DILUTION FACTOR (VOCs).	RL	1	1	1	1	1	1
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	0.44	nd
Tetrachloroethene	0.10	nd ·	nd	nd	nd	4.9	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		101%	102%	100%	97%	100%	102%
Surrogate Recovery (1,2-DCA-d4, Surrogate Recovery (Toluene-d8)		108% 104%	111% 104%	109% 103%	110% 106%	112% 102%	113% 103%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Mr. John Henkelman

page 1

Phone: (916) 853-8010



TEG Project #61011D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER.	-	VB-2-8	VB-3-4.5	VB-3-9	VB-4-4	VB-4-12	VB-5-5
SAMPLE DEPTH (feet).		8.0	4.5	9.0	4.0	12.0	5.0
PURGE VOLUME.		3	3	3	3	3	3
COLLECTION DATE	•	10/12/06	10/12/06	10/12/06	10/13/06	10/13/06	10/13/06
COLLECTION TIME	•	13:16	11:44	12:15	10:47	11:10	09:48
DILUTION FACTOR (VOCs).	RL	1	1	1	1	1	1
Viscol Chlasida	0.40		0.0				
Vinyl Chloride	0.10	nd	2.0	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	0.51	0.16	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	0.25	nd
Tetrachloroethene	0.10	nd '	nd	nd	nd	3.2	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		105%	101%	99%	101%	102%	106%
Surrogate Recovery (1,2-DCA-d4		115%	121%	110%	110%	114%	124%
Surrogate Recovery (Toluene-d8)		105%	105%	100%	104%	102%	102%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Mr. John Henkelman

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Phone: (916) 853-8010



TEG Project #61011D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER	<i>:</i>	VB-5-12	VB-5-12 dup	VB-6-5	VB-6-5	VB-6-5	VB-6-8
SAMPLE DEPTH (feet)	:	12.0	12.0	5.0	5.0	5.0	8.0
PURGE VOLUME	:	3	3	1	3	7	3
COLLECTION DATE	:	10/13/06	10/13/06	10/11/06	10/11/06	10/11/06	10/11/06
COLLECTION TIME	<u>:</u>	10:10	10:33	09:55	10:15	09:35	10:40
DILUTION FACTOR (VOCs)	: RL	1	1	1	1	1	1
					,	, , , ,	
Vinyl Chloride	0.10	0.28	0.29	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	0.13	0.13	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	0.81	0.94	nd	nd	nd	0.22
Trichloroethene	0.10	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd ·	nd	0.51	0.53	0.51	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		105%	104%	103%	104%	103%	102%
Surrogate Recovery (1,2-DCA-d4		112%	115%	112%	115%	114%	112%
Surrogate Recovery (Toluene-d8))	104%	104%	102%	104%	105%	104%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Mr. John Henkelman

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Phone: (916) 853-8010



TEG Project #61011D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER.		VB-6-8 dup	VB-7-5	VB-7-10	VB-8-5	VB-8-10	VB-9-5
SAMPLE DEPTH (feet).		8.0	5. <i>0</i>	10.0	5.0	10.0	5.0
PURGE VOLUME.		3	3	3	3	3	3
COLLECTION DATE:		10/11/06	10/12/06	10/12/06	10/12/06	10/12/06	10/12/06
COLLECTION TIME.		11:00	08:55	09:15	09:55	10:14	10:40
DILUTION FACTOR (VOCs).	RL	1	1	1	1	1	1
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	0.16	nd	nd	0.13	1.4	0.15
Trichloroethene	0.10	nd	nd	nd	1.9	2.6	0.67
Tetrachloroethene	0.10	nd ·	nd	nd	61	5.6	6.7
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		111%	102%	102%	101%	102%	100%
Surrogate Recovery (1,2-DCA-d4, Surrogate Recovery (Toluene-d8)		123% 118%	110% 101%	111% 102%	110% 99%	109% 99%	111% 102%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Mr. John Henkelman

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Phone: (916) 853-8010



TEG Project #61011D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER	;	VB-9-5 dup	VB-9-11	VB-10-5	VB-10-9	VB-11-4.5	VB-11-11.5
SAMPLE DEPTH (feet)		5.0	11.0	5.0	9.0	4.5	11.5
PURGE VOLUME		3	3	3	3.0	3	3
COLLECTION DATE	· :	10/12/06	10/12/06	10/13/06	10/13/06	3 10/13/06	3 10/13/06
COLLECTION TIME	· :	11:15	11:00	09:09	09:29	13:55	14:59
DILUTION FACTOR (VOCs)	: RL	1	1	1	1	10	400
			-				
Vinyl Chloride	0.10	nd	nd	nd	nd	520	23 (10)
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	170	64 (10)
cis-1,2-Dichloroethene	0.10	0.19	7.0	nd	nd	700	540 [°]
Trichloroethene	0.10	0.66	3.6	nd	nd	7.0	1400
Tetrachloroethene	0.10	6.5	12	0.16	nd	6.1	6800
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		101%	102%	104%	100%	105%	108%
Surrogate Recovery (1,2-DCA-d4) Surrogate Recovery (Toluene-d8)	,	109%	109%	112%	112%	129%	126%
Surrogate Necovery (Toluene-us)		99%	103%	102%	102%	103%	99%

^{&#}x27;RL' Indicates reporting limit at a dilution factor of 1

Analyses performed in TEG-Northern California's lab Analyses performed by: Mr. John Henkelman

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Phone: (916) 853-8010

^{&#}x27;nd' Indicates not detected at listed reporting limits

^{(10) =} Dilution factor for this compound



TEG Project #61011D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER	:	VB-12-5	VB-12-12	VB-13-5	VB-13-12	VB-14-5	VB-14-11
SAMPLE DEPTH (feet).	:	5.0	12.0	5.0	11.5	5.0	11.0
PURGE VOLUME	;	3	3	3	3	3	3
COLLECTION DATE	:	10/11/06	10/11/06	10/11/06	10/11/06	10/11/06	10/11/06
COLLECTION TIME	:	14:09	14:29	13:19	13:41	11:26	11:47
DILUTION FACTOR (VOCs)	: RL	1	1	1	1	1	1
•							
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	0.42	18	0.13	8.0	nd	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM) Surrogate Recovery (1,2-DCA-d4)	102% 108%	101% 111%	101% 112%	99% 110%	101% 116%	101% 112%
Surrogate Recovery (Toluene-d8)		102%	102%	108%	102%	112%	106%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Mr. John Henkelman

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Phone: (916) 853-8010



TEG Project #61011D

EPA Method 8260B VOC Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER	:	VB-15-5	VB-15-12	VB-16-4	VB-16-11	VB-17-4	VB-17-8
SAMPLE DEPTH (feet)	<i>:</i>	5.0	12.0	4.0	11.0	4.0	8.0
PURGE VOLUME	:	3	3	3	3	3	3
COLLECTION DATE	:	10/11/06	10/11/06	10/13/06	10/13/06	10/13/06	10/13/06
COLLECTION TIME	:	12:37	12:52	12:47	13:08	12:02	12:21
DILUTION FACTOR (VOCs)	: RL	1	1	1	1	1	1
N" 1011 11							
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd .	nd	nd	nd	nd	nd
1,1 Diflouroethane (leak check)	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		101%	101%	102%	99%	101%	103%
Surrogate Recovery (1,2-DCA-d4) Surrogate Recovery (Toluene-d8)		110% 104%	109% 99%	110% 103%	112% 101%	116% 104%	113% 103%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Mr. John Henkelman

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Phone: (916) 853-8010



TEG Project #61011D

CALIBRATION STANDARDS - Initial Calibration / LCS

	INITIAL CA	LIBRATION	L	CS
COMPOUND	RF	%RSD	RF	%DIFF
Vinyl Chloride*	0.404	8.4%	0.412	2.0%
trans-1,2-Dichloroethene	0.381	3.9%	0.343	10.0%
cis-1,2-Dichloroethene	0.312	18.0%	0.312	0.0%
Trichloroethene	0.347	18.5%	0.320	7.8%
Tetrachloroethene	0.347	17.8%	0.341	1.7%
ACCEPTABLE LIMITS:		20.0%		15.0%

Phone: (916) 853-8010

Fax: (916) 853-8020

'*' INDICATES RSD NOT TO EXCEED 30% & LCS NOT TO EXCEED 25%

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: #261829; Foothill Square	Date Sampled: 10/17/06
2500 Camino Diablo, Ste. #200		Date Received: 10/17/06
Walnut Creek, CA 94597	Client Contact: Jeremy Smith	Date Reported: 10/23/06
wante crock, cri 54377	Client P.O.:	Date Completed: 11/02/06

WorkOrder: 0610354

November 02, 2006

Dear Jeremy:

Enclosed are:

- 1). the results of 13 analyzed samples from your #261829; Foothill Square project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

		McCA	153	LL ANA 4 Willow Pa	ass Roa	ΓΙCA d	AL.	INC	•										C	HA	IN	Ol	7 C	US	STO	OD	Y	REC	COR	ED		
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	Tele: (925) 944-2		24 7437		Fax:	Iail: j	asmi	th(a)a6	eicon 1	sulta	ints.c	om		8015)/MTBE	dnu	18E/		. 7					310									
	Project #: 261829				Projec	ct Na				Sau	are			15)//	Clea	520 I	18.1						8270 / 8310									
	Project Location:	10700 Mac	Arthur 1	Blvd. Oal	dand,	CA		2 000	ALAIL I	oqu.	arc			+	Gel	e (5;	ns (4		20)		١,٠		827									
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		. ,	SAM	PLING	- 10	ers		MA	TRI	X.			HOD RVED	Gas (602/8020	PPH as Diesel (8015) w/silica Gel Cleanup	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	0	A 602		EPA 608 / 8080 PCB's ONLY	ж.	EPA 625 /			Lead (7240/7421/239.2/6010)						
	SAMPLE ID	LOCATION			Containers	Type Containers								as G	(801	III)	um I	HVOCs EPA 8260	BTEX ONLY (EPA	080	80 P	09	PAH's / PNA's by	als	ls s	421/2						
	(Field Point Name)	LOCATION	Date	Time	ıtai	Col	1		بو					TPH	iesel	trole	trole	EPA	NE	3/80	3 / 80	8 8	PNA	Met	Meta	40/7						
					Co	ype	Water	Soil	Sludge	Other	a	7	HNO ₃	BTEX & TPH as	as D	al Pe	al Pe	OCs	EX	EPA 608 / 8080	1 608	EPA 624 / 8260 EPA 625 / 8270	I's/	CAM-17 Metals	LUFT 5 Metals	1 (72						
(4)	7110		-		#	E	=	Soil	S	0	Ice	HC		BT	IPH	Tot	Tot	HV	BT	EP/	EP/	EP/	PAI	CF	157	Leac	RCI	-	-			
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+	FHS MW-10			9:29		1	1				í							X												-		
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+	AMW-60			11:06							\top						_	+	-	_		168		1			-		-	_		
+	AMW-4			11:15		RES.			1		+							+	-		-							75	-			
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McCampbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

10

Prepared by: Melissa Valles

WorkOrder: 0610354 ClientID: AEL **▼**EDF □Email □ HardCopy ☐ ThirdParty ∏Fax Report to: Bill to: **Requested TAT:** 5 days Jeremy Smith Email: jasmith@aeiconsultants.com Denise Mockel **AEI Consultants** TEL: (925) 283-6000 FAX: (925) 944-2895 **AEI Consultants** 10/17/2006 Date Received: 2500 Camino Diablo, Ste. #200 ProjectNo: #261829; Foothill Square 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 PO: Walnut Creek, CA 94597 10/17/2006 Date Printed: Requested Tests (See legend below) ClientSampID 1 2 3 10 11 12 Sample ID Matrix Collection Date Hold 0610354-001 FHS MW-11 Water 10/17/06 8:26:00 Α Α 0610354-002 FHS MW-10 10/17/06 9:29:00 Water Α 0610354-003 AMW-9 Water 10/17/06 10:55:00 Α 0610354-004 AMW-6 Water 10/17/06 11:06:00 Α AMW-4 0610354-005 Water 10/17/06 11:15:00 Α 0610354-006 AMW-5 Water 10/17/06 11:26:00 Α 0610354-007 AMW-1 Water 10/17/06 1:06:00 Α 0610354-008 WGR MW-2 Water 10/17/06 1:40:00 Α 0610354-009 AMW-8 Water 10/17/06 1:44:00 Α 0610354-010 MW-7 Water 10/17/06 2:45:00 Α 0610354-011 WGR MW-3 Water 10/17/06 2:33:00 Α 0610354-012 MW-6 Water 10/17/06 3:03:00 Α 0610354-013 WGR MW-4 Water 10/17/06 3:51:00 Α **Test Legend:** 1 2 4 5 8010BMS W PREDF REPORT 3

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"When Ouality Counts"

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: #261829; Foothill	Date Sampled:	10/17/06
2500 Camino Diablo, Ste. #200	Square	Date Received: 1	10/17/06
2.00 0	Client Contact: Jeremy Smith	Date Extracted: 1	10/18/06-10/19/06
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed	10/18/06-10/19/06

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

Extraction Method: SW5030B	Anal	ytical Method: SW826	0B		Work Order:	0610354
Lab ID	0610354-001A	0610354-002A	0610354-003A	0610354-004A	Reporting	Limit for
Client ID	FHS MW-11	FHS MW-10	AMW-9	AMW-6	DF	
Matrix	W	W	W	W		***
DF	1	1	3.3	5	S	W
Compound			μg/kg	μg/L		
Bromodichloromethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
Bromoform	ND	ND	ND<1.7	ND<2.5	NA	0.5
Bromomethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
Carbon Tetrachloride	ND	ND	ND<1.7	ND<2.5	NA	0.5
Chlorobenzene	ND	ND	ND<1.7	ND<2.5	NA	0.5
Chloroethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND	ND<3.3	ND<5.0	NA	1.0
Chloroform	ND	ND	ND<1.7	ND<2.5	NA	0.5
Chloromethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
Dibromochloromethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,2-Dichlorobenzene	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND<1.7	ND<2.5	NA	0.5
Dichlorodifluoromethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,1-Dichloroethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,1-Dichloroethene	ND	ND	ND<1.7	ND<2.5	NA	0.5
cis-1,2-Dichloroethene	ND	ND	ND<1.7	32	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND<1.7	4.9	NA	0.5
1,2-Dichloropropane	ND	ND	ND<1.7	ND<2.5	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND<1.7	ND<2.5	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND<1.7	ND<2.5	NA	0.5
Methylene chloride	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
Tetrachloroethene	20	ND	73	98	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
Trichloroethene	ND	ND	ND<1.7	14	NA	0.5
Trichlorofluoromethane	ND	ND	ND<1.7	ND<2.5	NA	0.5
Vinyl Chloride	ND	ND	ND<1.7	ND<2.5	NA	0.5
	Su	rrogate Recoverie	s (%)			
%SS1:	109	113	111	111		
%SS2:	106	105	112	112		
%SS3:	102	101	97	99		
Comments						

^{*} water and vapor samples are reported in µg/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 µg/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.



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AEI Consultants	Client Project ID: #261829; Foothill	Date Sampled: 10/17/06
2500 Camino Diablo, Ste. #200	Square	Date Received: 10/17/06
	Client Contact: Jeremy Smith	Date Extracted: 10/18/06-10/19/06
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed 10/18/06-10/19/06

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

Extraction Method: SW5030B	Anal	ytical Method: SW826	0B		Work Order:	0610354
Lab ID	0610354-005A	0610354-006A	0610354-007A	0610354-008A	Donoutino	Timit for
Client ID	AMW-4	AMW-5	AMW-1	WGR MW-2	Reporting DF	
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound			μg/kg	μg/L		
Bromodichloromethane	ND	ND	ND	ND	NA	0.5
Bromoform	ND	ND	ND	ND	NA	0.5
Bromomethane	ND	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND	ND	ND	ND	NA	0.5
Chlorobenzene	ND	ND	ND	ND	NA	0.5
Chloroethane	ND	ND	ND	ND	NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	NA	1.0
Chloroform	ND	ND	ND	ND	NA	0.5
Chloromethane	ND	ND	ND	ND	NA	0.5
Dibromochloromethane	ND	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethane	ND	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethene	ND	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	9.9	0.68	ND	ND	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
Methylene chloride	ND	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NA	0.5
Tetrachloroethene	6.5	22	2.2	ND	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND	ND	NA	0.5
Trichloroethene	ND	0.88	ND	ND	NA	0.5
Trichlorofluoromethane	ND	ND	ND	ND	NA	0.5
Vinyl Chloride	ND	ND	ND	ND	NA	0.5
	Su	rrogate Recoverie	es (%)			
%SS1:	115	114	113	113		
%SS2:	105	103	109	109		
%SS3:	100	103	100	103	_	
Comments						

^{*} water and vapor samples are reported in µg/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 µg/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.



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AEI Consultants	Client Project ID: #261829; Foothill	Date Sampled: 10/17/06
2500 Camino Diablo, Ste. #200	Square	Date Received: 10/17/06
2000 0	Client Contact: Jeremy Smith	Date Extracted: 10/18/06-10/19/06
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed 10/18/06-10/19/06

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

Extraction Method: SW5030B	Anal	ytical Method: SW826	0B		Work Order: 0610354		
Lab ID	0610354-009A	0610354-010A	0610354-011A	0610354-012A	Danartina	I imit for	
Client ID	AMW-8	MW-7	WGR MW-3	MW-6	Reporting DF	=1	
Matrix	W	W	W	W		***	
DF	1	1	1	10	S	W	
Compound		Conce	entration		μg/kg	μg/L	
Bromodichloromethane	ND	1.7	ND	ND<5.0	NA	0.5	
Bromoform	ND	ND	ND	ND<5.0	NA	0.5	
Bromomethane	ND	ND	ND	ND<5.0	NA	0.5	
Carbon Tetrachloride	ND	ND	ND	ND<5.0	NA	0.5	
Chlorobenzene	ND	ND	ND	ND<5.0	NA	0.5	
Chloroethane	ND	ND	ND	ND<5.0	NA	0.5	
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND<10	NA	1.0	
Chloroform	ND	ND	ND	ND<5.0	NA	0.5	
Chloromethane	ND	ND	ND	ND<5.0	NA	0.5	
Dibromochloromethane	ND	ND	ND	ND<5.0	NA	0.5	
1,2-Dichlorobenzene	ND	ND	ND	ND<5.0	NA	0.5	
1,3-Dichlorobenzene	ND	ND	ND	ND<5.0	NA	0.5	
1,4-Dichlorobenzene	ND	ND	ND	ND<5.0	NA	0.5	
Dichlorodifluoromethane	ND	ND	ND	ND<5.0	NA	0.5	
1,1-Dichloroethane	ND	ND	ND	ND<5.0	NA	0.5	
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND<5.0	NA	0.5	
1,1-Dichloroethene	ND	ND	ND	ND<5.0	NA	0.5	
cis-1,2-Dichloroethene	ND	ND	ND	16	NA	0.5	
trans-1,2-Dichloroethene	ND	ND	ND	ND<5.0	NA	0.5	
1,2-Dichloropropane	ND	ND	ND	ND<5.0	NA	0.5	
cis-1,3-Dichloropropene	ND	ND	ND	ND<5.0	NA	0.5	
trans-1,3-Dichloropropene	ND	ND	ND	ND<5.0	NA	0.5	
Methylene chloride	ND	ND	ND	ND<5.0	NA	0.5	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND<5.0	NA	0.5	
Tetrachloroethene	ND	ND	ND	320	NA	0.5	
1,1,1-Trichloroethane	ND	ND	ND	ND<5.0	NA	0.5	
1,1,2-Trichloroethane	ND	ND	ND	ND<5.0	NA	0.5	
Trichloroethene	ND	ND	ND	18	NA	0.5	
Trichlorofluoromethane	ND	ND	ND	ND<5.0	NA	0.5	
Vinyl Chloride	ND	ND	ND	ND<5.0	NA	0.5	
	Su	rrogate Recoverie	es (%)				
%SS1:	113	99	116	110			
%SS2:	110	108	108	110			
%SS3:	100	95	102	99			
Comments			i				

^{*} water and vapor samples are reported in µg/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 µg/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.



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AEI Consultants	Client Project ID: #261829; Foothill	Date Sampled:	10/17/06
2500 Camino Diablo, Ste. #200	Square	Date Received:	10/17/06
	Client Contact: Jeremy Smith	Date Extracted:	10/18/06-10/19/06
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed	10/18/06-10/19/06

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

Lab ID O610354-013A Reporting Limit for DF 1	Extraction Method: SW5030B	Anal	ytical Method: SW8260B	Work Order:	0610354
Matrix W	Lab ID	0610354-013A			
Matrix W	Client ID	WGR MW-4			
Compound Concentration	Cheft ID	WOK MW 4		DF	=1
Compound	Matrix	W			
Bromodichloromethane	DF	1		S	W
Bromodichloromethane	Compound		Concentration	ug/kg	μg/L
Bromoform		ND			
Bromomethane					
Carbon Tetrachloride					
Chloroethane					
Chloroethane					
2-Chloroethyl Vinyl Ether					
ND					
ND					
Dibromochloromethane					
1,2-Dichlorobenzene					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
1,1-Dichloroethane	· ·				
1,1-Dichloroethane	Dichlorodifluoromethane	ND		NA	0.5
1,2-Dichloroethane (1,2-DCA)					
cis-1,2-Dichloroethene ND NA 0.5 trans-1,2-Dichloroethene ND NA 0.5 1,2-Dichloropropane ND NA 0.5 cis-1,3-Dichloropropene ND NA 0.5 trans-1,3-Dichloropropene ND NA 0.5 Methylene chloride ND NA 0.5 1,1,2-Tetrachloroethane ND NA 0.5 1,1,1-Trichloroethane ND NA 0.5 1,1,1-Trichloroethane ND NA 0.5 1,1,2-Trichloroethane ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Vinyl Chloride ND NA 0.5 Surrogate Recoveries (%) %SS1: 114 NA 0.5 %SS2: 111 NA 0.5		ND		NA	0.5
cis-1,2-Dichloroethene ND NA 0.5 trans-1,2-Dichloroethene ND NA 0.5 1,2-Dichloropropane ND NA 0.5 cis-1,3-Dichloropropene ND NA 0.5 trans-1,3-Dichloropropene ND NA 0.5 Methylene chloride ND NA 0.5 1,1,2-Tetrachloroethane ND NA 0.5 1,1,1-Trichloroethane ND NA 0.5 1,1,1-Trichloroethane ND NA 0.5 1,1,2-Trichloroethane ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Vinyl Chloride ND NA 0.5 Surrogate Recoveries (%) %SS1: 114 NA 0.5 %SS2: 111 NA 0.5	1,1-Dichloroethene	ND		NA	0.5
ND		ND		NA	0.5
cis-1,3-Dichloropropene ND NA 0.5 trans-1,3-Dichloropropene ND NA 0.5 Methylene chloride ND NA 0.5 1,1,2,2-Tetrachloroethane ND NA 0.5 Tetrachloroethane ND NA 0.5 1,1,1-Trichloroethane ND NA 0.5 1,1,2-Trichloroethane ND NA 0.5 Trichloroethane ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Vinyl Chloride ND NA 0.5 SSS1: 114 NA 0.5 %SS2: 111 NA 0.5 %SS3: 99 NA 0.5	trans-1,2-Dichloroethene	ND		NA	0.5
trans-1,3-Dichloropropene ND NA 0.5 Methylene chloride ND NA 0.5 1,1,2,2-Tetrachloroethane ND NA 0.5 Tetrachloroethene 0.62 NA 0.5 1,1,1-Trichloroethane ND NA 0.5 1,1,2-Trichloroethane ND NA 0.5 Trichloroethene ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Vinyl Chloride ND NA 0.5 Surrogate Recoveries (%) %SS1: 114 %SS2: 111 %SS3: 99	1,2-Dichloropropane	ND		NA	0.5
Methylene chloride ND NA 0.5 1,1,2,2-Tetrachloroethane ND NA 0.5 Tetrachloroethene 0.62 NA 0.5 1,1,1-Trichloroethane ND NA 0.5 1,1,2-Trichloroethane ND NA 0.5 Trichloroethene ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Vinyl Chloride ND NA 0.5 Surrogate Recoveries (%) %SS1: 114 %SS2: 111 %SS3: 99	cis-1,3-Dichloropropene	ND		NA	0.5
ND	trans-1,3-Dichloropropene	ND		NA	0.5
Tetrachloroethene 0.62 NA 0.5	Methylene chloride	ND		NA	0.5
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	ND		NA	0.5
ND	Tetrachloroethene	0.62		NA	0.5
Trichloroethene ND NA 0.5 Trichlorofluoromethane ND NA 0.5 Vinyl Chloride ND NA 0.5 Surrogate Recoveries (%) %SS1: 114	1,1,1-Trichloroethane	ND		NA	0.5
Trichlorofluoromethane ND NA 0.5 Vinyl Chloride ND NA 0.5 Surrogate Recoveries (%) %SS1: 114	1,1,2-Trichloroethane	ND		NA	0.5
Vinyl Chloride ND NA 0.5 Surrogate Recoveries (%) %SS1: 114 %SS2: 111 %SS3: 99	Trichloroethene	ND		NA	0.5
Surrogate Recoveries (%) %SS1: 114 %SS2: 111 %SS3: 99	Trichlorofluoromethane	ND		NA	0.5
%SS1: 114 %SS2: 111 %SS3: 99	Vinyl Chloride	ND		NA	0.5
%SS1: 114 %SS2: 111 %SS3: 99		Su	rrogate Recoveries (%)		
%SS2: 111	%SS1:				
%SS3: 99					
		†			

%SS2:	111						
%SS3:	99						
Comments							
* water and wants complete are reported in wall, sail/aludes/sail/acomplete in malla, product/ail/acomplete and all TCLD & CDLD							

^{*} water and vapor samples are reported in µg/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 µg/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.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0610354

EPA Method: SW8260B	Extraction: SW5030B					BatchID: 24336 Spiked Sample ID: 0610354-009A				09A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Ad	cceptan	ce Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	96.6	94.9	1.83	105	119	12.3	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	91	94.1	3.41	106	107	0.835	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	103	109	6.05	117	120	2.44	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	85.4	86.8	1.54	94.4	99	4.75	70 - 130	30	70 - 130	30
%SS1:	113	10	105	107	1.35	104	98	5.91	70 - 130	30	70 - 130	30
%SS2:	110	10	93	93	0	95	95	0	70 - 130	30	70 - 130	30
%SS3:	100	10	94	94	0	96	95	0.545	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 24336 SUMMARY

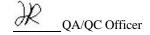
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610354-001	10/17/06 8:26 AM	10/18/06	10/18/06 5:41 PM	0610354-002	10/17/06 9:29 AM	10/18/06	10/18/06 6:25 PM
0610354-003)/17/06 10:55 AM	10/19/06	10/19/06 2:16 PM	0610354-004)/17/06 11:06 AM	10/19/06	10/19/06 3:01 PM
0610354-005)/17/06 11:15 AM	10/18/06	10/18/06 8:39 PM	0610354-006)/17/06 11:26 AM	10/18/06	0/18/06 10:52 PM
0610354-007	10/17/06 1:06 PM	10/18/06	0/18/06 11:37 PM	0610354-008	10/17/06 1:40 PM	10/19/06)/19/06 12:21 AM
0610354-009	10/17/06 1:44 PM	10/19/06	10/19/06 1:06 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 = <math>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.



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QC SUMMARY REPORT FOR SW8260B

QC Matrix: Water WorkOrder: 0610354 W.O. Sample Matrix: Water

EPA Method: SW8260B	Extraction: SW5030B				BatchID: 24337 Spiked Sample ID: 0610354-013				13A			
Analyte .	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCS LCSD LCS-LCSD Acceptance Criteria				ce Criteria (º	%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	96	98.8	2.86	93	93.3	0.317	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	91.8	94.6	3.00	84.9	83.7	1.41	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	104	108	4.36	95.6	92.7	3.00	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	86.4	89.9	3.98	79.7	79.5	0.213	70 - 130	30	70 - 130	30
%SS1:	114	10	104	105	0.802	99	98	1.64	70 - 130	30	70 - 130	30
%SS2:	111	10	93	94	1.33	97	97	0	70 - 130	30	70 - 130	30
%SS3:	99	10	95	95	0	95	94	0.746	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 24337 SUMMARY

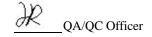
Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610354-010	10/17/06 2:45 PM	10/19/06	10/19/06 1:50 AM	0610354-011	10/17/06 2:33 AM	10/19/06	10/19/06 2:35 AM
0610354-012	10/17/06 3:03 PM	10/19/06	10/19/06 3:45 PM	0610354-013	10/17/06 3·51 PM	10/19/06	0/19/06 12·47 PM

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.



APPENDIX C

GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS

Monitoring Well Number: AMW-1

Project Name:	Foothill Square	Date of Sampling: 10/17/2006
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	OK	▼					
Elevation of Top of Casing (feet above msl)		64.51					
Depth of Well		45.00					
Depth to Water (from top of casing)		22.91					
Water Elevation (feet above msl)		41.60					
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)	10.6						
Actual Volume Purged (gallons)		11.0					
Appearance of Purge Water		clears quickly					
Free Product Present?	na	Thickness (ft):					

GROUNDWATER SAMPLES										
Number of Sample										
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments			
	2	19.23	7.2	1168	0.95	-150.2				
	4	19.21	7.17	1272	0.60	-153.9				
	6	19.19	7.16	1193	0.46	-162.5				
	8	20.43	7.2	1543	0.59	-129.9				
	10	19.61	7.13	1552	0.59	-137.6				
	11	19.37	7.13	1550	0.58	-148.8				

Light brown no hc odor. Well went dry @ 7 gallons 12:44pm. Recharged at 12:55pm								

Monitoring Well Number: AMW-4

Ī	Project Name:	Foothill Square	Date of Sampling: 10/17/2006
Ī	Job Number:	261829	Name of Sampler: A. Nieto
Ī	Project Address:	10700 MacArthur Blvd., Oakland	

MONITORING WELL DATA							
Well Casing Diameter (2"/4"/6")	2						
Wellhead Condition	OK						
Elevation of Top of Casing (feet above msl)		64.79					
Depth of Well		25.00					
Depth to Water (from top of casing)	h to Water (from top of casing) 12.76						
Water Elevation (feet above msl)	52.03						
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) 7.0							
Appearance of Purge Water	grey, clears at 2 gallons						
Free Product Present?	na	Thickness (ft): -					

	GROUNDWATER SAMPLES						
Number of Samples/Container Size				2 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.75	7.02	1444	0.40	-245.3	
	4	19.75	7.05	1459	0.38	-251.8	
	6	19.82	7.07	1473	0.36	-255.7	
	7	19.83	7.08	1475	0.35	-256.0	
				1			

Monitoring Well Number: AMW-5

Project Name:	Foothill Square	Date of Sampling: 10	0/17/2006
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)		64.97				
Depth of Well		30.00				
Depth to Water (from top of casing)	14.15					
Water Elevation (feet above msl)	50.82					
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)	d (gallons) 8.0					
Appearance of Purge Water	Clears at 3 gallons					
Free Product Present?	na	Thickness (ft): -				

	GROUNDWATER SAMPLES						
Number of Samples/Container Size				2 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.71	6.90	1549	0.42	-162.8	
	4	19.78	6.95	1547	0.38	-176.7	
	6	19.7	6.99	1545	0.36	-186.5	
	8	19.65	6.99	1549	0.34	-191.2	

Light brown no hc odors present	Light brown no hc odors present					

Monitoring Well Number: AMW-6

Project Name:	Foothill Square	Date of Sampling: 10/17/2006
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	OK					
Elevation of Top of Casing (feet above msl)		65.10				
Depth of Well		25.00				
Depth to Water (from top of casing)	of casing) 11.46					
Water Elevation (feet above msl)	er Elevation (feet above msl) 53.64					
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	clears quickly					
Free Product Present?	na	Thickness (ft): -				

	GROUNDWATER SAMPLES						
Number of Samples/Container Size				2 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	18.96	7.20	1471	0.65	-168.5	
	4	19.07	7.10	1567	0.35	-169.2	
	6	19.08	7.04	1523	0.3	-170.3	
	7	19.08	7.04	1654	0.3	-170.5	

Light brown no hc odors in water	Light brown no hc odors in water					

Monitoring Well Number: AMW-8

Project Name:	Foothill Square	Date of Sampling: 10/17/2006
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	OK .				
Elevation of Top of Casing (feet above msl)		64.55			
Depth of Well		45.00			
Depth to Water (from top of casing)	16.05				
Water Elevation (feet above msl)	48.50				
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)	13.9				
Actual Volume Purged (gallons)	14.0				
Appearance of Purge Water	Fast clearing				
Free Product Present?	na	Thickness (ft): -			

GROUNDWATER SAMPLES							
Number of Sample	es/Container S	Size					
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	3	19.2	7.87	306	0.49	-201.9	
	6	19.18	7.71	304	0.46	-206.1	
	9	19.52	7.81	309	0.47	-216.3	
	12	19.76	7.84	309	0.49	-209.6	
	14	19.19	7.83	311	0.49	-213.4	

Almost clear/light brown, no petroleum odor noted						

Monitoring Well Number: AMW-9

Project Name:	Foothill Square	Date of Sampling: 10/17/2006
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)		63.48			
Depth of Well		54.30			
Depth to Water (from top of casing)	23.07				
Water Elevation (feet above msl)		40.41			
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)	16.0				
Appearance of Purge Water	clear @ 1 gallon				
Free Product Present?	na	Thickness (ft): -			

GROUNDWATER SAMPLES							
Number of Sample	es/Container S	Size		2 VOAs			
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	4	20.76	7.33	474	0.48	-135.3	
	8	20.95	7.15	1920	0.31	-133.4	
	12	21.04	7.12	1612	0.22	-159.9	
	16	21.01	7.11	1597	0.17	-184.4	

Light brown no hc odor present in water						

Monitoring Well Number: WGR MW-2

Project Name:	Foothill Square	Date of Sampling: 10/17/2006	
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	OK				
Elevation of Top of Casing (feet above msl)		63.18			
Depth of Well		28.00			
Depth to Water (from top of casing)		23.91			
Water Elevation (feet above msl)	39.27				
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)		8.0			
Actual Volume Purged (gallons)	8.0				
Appearance of Purge Water	black, clears @1.5 gallons				
Free Product Present?	na	Thickness (ft): -			

	GROUNDWATER SAMPLES						
Number of Sample	es/Container S	Size					
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.94	7.07	1894	0.63	-227.1	
	4	19.97	7.06	1622	0.59	-224.8	
	6	19.94	7.05	1634	0.57	-228.3	
	8	19.91	7.07	1638	0.54	-230.1	

litially dark with sewer smell					

Monitoring Well Number: WGR MW-3

Project Name:	Foothill Square	Date of Sampling: 10/17/200)6
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	OK					
Elevation of Top of Casing (feet above msl)		58.34				
Depth of Well	27.00					
Depth to Water (from top of casing)	21.85					
Water Elevation (feet above msl)		36.49				
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)	10.0					
Actual Volume Purged (gallons)	11.0					
Appearance of Purge Water	Clears by <1 gallons					
Free Product Present?	nt? na Thickness (ft): -					

GROUNDWATER SAMPLES								
Number of Sample	Number of Samples/Container Size							
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments	
	2	19.57	6.63	436	0.94	-271.4		
	4	19.73	6.51	438	0.76	-279.9		
	6	19.61	6.47	452	0.77	-291.4		
	8	19.55	6.46	453	0.77	-290.9		
	10	19.53	6.50	457	0.77	-297.6		
	11	19.61	6.52	458	0.77	-296.1	_	

Vater dark no hc odors/smell noted	

Monitoring Well Number: WGR MW-4

Project Name:	Foothill Square	Date of Sampling: 10	0/17/2006
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	OK					
Elevation of Top of Casing (feet above msl)		60.02				
Depth of Well	44.96					
Depth to Water (from top of casing)	26.31					
Water Elevation (feet above msl)		33.71				
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)	36.4					
Actual Volume Purged (gallons)	37.0					
Appearance of Purge Water	clear					
Free Product Present?	t? na Thickness (ft): -					

	GROUNDWATER SAMPLES								
Number of Sampl	Number of Samples/Container Size								
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments		
	6	22.04	6.19	867	0.62	-160.3			
	12	22.31	6.17	871	0.59	-166.9			
	18	22.35	6.19	979	0.54	-174.9			
	24	22.28	6.23	1029	0.5	-181.9			
	30	22.20	6.21	1139	0.46	-185.2			
	36	22.13	6.24	1231	0.42	-189.1			
	37	22.11	6.23	1311	0.41	-189.9			

clear no odors	

Monitoring Well Number: FHS MW-10

Project Name:	Foothill Square	Date of Sampling: 10/17/2006
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)	24.35					
Water Elevation (feet above msl)	27.99					
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)	13.2					
Actual Volume Purged (gallons)	14.0					
Appearance of Purge Water	light brown at 2 gallons					
Free Product Present?		Thickness (ft): -				
12						

	14								
Number of Samples/Container Size			2 VOAs						
Time	Time Vol Removed Temperature (gal) (deg C) pH				DO (mg/L)	ORP (meV)	Comments		
	3	19.16	6.73	533	0.62	-130.4			
	6	19.25	6.72	535	0.35	-128.8			
	9	19.27	6.7	539	0.28	-127.9			
	12	19.29	6.68	539	0.24	-126.8			
	14	19.30	6.67	539	0.22	-126.9			

Started brown no hc odors			

Monitoring Well Number: FHS MW-11

Project Name:	Foothill Square	Date of Sampling: 10/17/2006
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)	26.54					
Water Elevation (feet above msl)	27.52					
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)	18.0					
Actual Volume Purged (gallons)	20.0					
Appearance of Purge Water	clear					
Free Product Present?	nt? na Thickness (ft): -					

GROUNDWATER SAMPLES							
Number of Sample	es/Container S	Size					
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	4	19.50	6.75	731	0.43	20.5	
	8	19.56	6.79	739	0.32	13.7	
	12	19.58	6.78	738	0.32	-1.3	
	16	19.59	6.77	737	0.24	-13	
	20	19.59	6.76	736	0.21	-21.7	

Water initially brown with no hydrocarbons odors noted						

Monitoring Well Number: MW-6

Project Name:	Foothill Square	Date of Sampling: 10	0/17/2006
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)	32.58					
Water Elevation (feet above msl)	29.20					
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)	7.7					
Actual Volume Purged (gallons)	8.0					
Appearance of Purge Water	Clear <1 gallon					
Free Product Present?	nt? na Thickness (ft): -					

GROUNDWATER SAMPLES							
Number of Samples/Container Size			2 VOAs				
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	18.75	6.73	1152	0.35	-204.9	
	4	18.73	6.72	1122	0.32	-214.8	
	6	18.74	6.75	1118	0.30	-229.8	
	8	18.74	6.76	1116	0.30	-235.7	

Light brown no hc odors in water		

Monitoring Well Number: MW-7

Project Name:	Foothill Square	Date of Sampling: 10/17/2006
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	OK					
Elevation of Top of Casing (feet above msl)	58.64					
Depth of Well	38.00					
Depth to Water (from top of casing)	22.19					
Water Elevation (feet above msl)	36.45					
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	Clear at < 1 gallon					
Free Product Present? na Thickness (ft):						

GROUNDWATER SAMPLES							
Number of Samples/Container Size			2 VOAs				
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	19.41	6.59	477	0.55	-406.1	
	4	19.64	6.65	473	0.51	-421.9	
	6	19.61	6.61	471	0.47	-425.6	
	8	19.6	6.58	468	0.45	-428.5	

nitially d\ark brown, with significant hc odors						

APPENDIX D SURVEY DATA

TABLE 1

WELLS WITHIN 1/2-MILE RADIUS USA STATION #57 OAKLAND, CALIFORNIA

Man	Well	Owner	Well Address	DWR	Year	Perforated Intervals
ID	Use	-		CONTRACTOR		(feet)
1	MW	Southland	10501 Foothills	2 S 3 W 24 E (3-5)	1987	
	MW	Arco	10600 MacArthur	2 S 3 W 24 E 11	1992	*
3	MW	Sam Kai Kee	106th	2 S 3 W 24 G 1	1951	28-85'
4	MW	Shell	-	2 S 3 W 24 M		
5	IW	Ms. Kitchen	2544 109th	2 S 3 W 24 M 1		38-55'
6	MW	Unocal	96 MacArthur			Unknown
7	rw	Mr. Brahmse	377 Hollister	2 S 3 W 24 N 1	1971	35-75'
_ 8	CPW	PG&E	Sunnyside 75' SW of 104th	2 S 3 W 23 K 1	1974	120'
9	CPW	PG&E	Shaw & Stanley	2 S 3 W 24 E 2	1976	120'
10	DW	Mr. Freitas	Stella & Malcolm	2 S 3 W 24 B 5	1955	55-123'
11	DW	G. Hower	10700 Stella	2 S 3 W 24 B 2	1951	55'
12	DW	Johnson	10731 Mark	2 S 3 W 24 B 1	1951	102'
13	DW	Sam Kai Kee	Mark	2 S 3 W 24 B 3	1	100'
14	DW	H. Mathews	10544 Stella	2 S 3 W 24 C 3		42-92'
15	DW	A. Bassigian	Mark & Hood	2 S 3 W 24 B	1958	56-107'
16	DW	C. Bach	Malcolm & Stella	2 S W W 24		100'
17	DW	J. Prentiss	10521 Stella	S 2 3 W 24 C	1951	
18	DW	R. Trimble	10520 Stella	2 S 3 W 24 C	1951	
19	DW	C. Armtront	10550 Stella	2 S 3 W 24 C		Unknown
20	DW	H. Brennemar		2 S 3 W 24 B 4	1951	T.
21	CPW	PG&E	Voltaire & 108th	2 S S W 23 J 1		105'

MW Monitoring well
DW Domestic well

CW Cathodic protection well

IW Irrigation well

G:\data\5090\Search.wb1

Wells within 10700 MacArthur Blvd. 1/4 mile search radius.

