September 21, 2007

SOIL AND GROUNDWATER INVESTIGATION REPORT

325 Martin Luther King Jr. Way
Oakland, California

Project No. 270308
ACEHS Toxics Case # RO0002930

Prepared On Behalf Of

Mr. and Mrs. Allen
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AEI

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1.0 INTRODUCTION

The following report has been prepared on behalf of Kimball and Jane Allen for the property located at 325 Martin Luther King Way, City of Oakland, Alameda County, California (Figure 1). AEI Consultants (AEI) has been retained by Mr. and Mrs. Allen to provide environmental engineering and consulting services associated with a release of fuel petroleum hydrocarbons from an abandoned underground storage tank (UST) located on the property. The release at the property is currently receiving regulatory oversight from the Alameda County Health Care Services Agency (ACHCSA).

This investigation has been performed in order to characterize the extent of petroleum hydrocarbons released from an abandoned UST, which was decommissioned in place in October 1993. The investigation was requested by the ACHCSA in a letter to the Allens dated December 22, 2006. AEI submitted a Work Plan detailing the proposed scope of work dated March 8, 2007, and receive approval in a letter dated March 27, 2007. The environmental assessment activities performed at the site and outlined in this report include:

- findings of May 2007 soil and groundwater investigation;
- installation of three (3) groundwater monitoring wells and sampling the wells;
- conducting a utility survey mapping onsite and surrounding utilities, and;
- conducting a water well search with the Department of Water Resources (DWR) and the Alameda County Public Works (ACPWA).

2.0 SITE DESCRIPTION AND HISTORY

The subject property is located on the western corner of the intersection of Martin Luther King Jr. Way and 4th Street in a mixed commercial and industrial area of Oakland. The property measures approximately 100 feet along Martin Luther King and approximately 150 feet along 4th Street with the property building covering essentially 100% of the land area. The northwestern portion of the building along 4th Street has also had the address 671 4th Street. The building is currently vacant, but was previously occupied by Pucci Enterprises as warehouse space and cold storage freezers.

Touchstone Developments completed a Phase I Environmental Site Assessment (ESA) of the property dated November 1, 1993 and identified a 10,000-gallon former fuel UST that currently exists below the north side of the building. The fuel UST was used to provide fuel for the Pucci Enterprises truck fleet. Marvin Busby Company, Inc. decommissioned the tank on October 20, 1993 by steam cleaning the tank, pumping remaining sludge out of the tank, and filling the tank with concrete slurry. At the time of the UST closure, the eastern section of the building had not yet been built. The tank could not be removed because of its proximity to the footing of the 671 4th Street building. After tank closure, the eastern portion of the building (325 Martin Luther King) was constructed. Although records show that the UST was abandoned following proper procedures applicable at that time, no documentation was available of sampling around the tank prior to abandonment.

A number of site investigations have been performed by several environmental consultants since May 2005. A summary of each project is presented below. Approximately soil boring locations are presented on Figure 2 and analytical data available to AEI is presented in Tables 1 and 2.

Phase II Investigation – AEI, May 2005
AEI performed a Phase II Subsurface Investigation in May 2005 as part of environmental due diligence for a potential real estate transaction. A total two borings (SB-2 and SB-4) were completed with soil and groundwater samples collected (SB-1 and SB-3 encountered refusal at 4 feet bgs, possibly the top of the concrete filled UST). A release was discovered during the investigation, which indicated an impact to groundwater. Total petroleum hydrocarbon (TPH) as gasoline (TPH-g), TPH as diesel (TPH-d), and benzene were detected in groundwater up to 780 micrograms per liter (µg/l), 420 µg/l, and 53 µg/l, respectively. AEI recommended further investigation and, due to the discovery of a release, that the report be forwarded to ACHCSA.

Environmental Investigation – Terra Firma, September 2005
In September 2005, an additional investigation was performed, presumably relating to another potential real estate transaction. Groundwater samples were reportedly collected from four (4) soil borings (labeled 50901-1 to 50901-4). Details on the methods, field observations (including soil conditions), or analytical reports were not made available to AEI. Based on the information provided, groundwater sample analyses revealed the highest concentrations of TPH-g, TPH-d, and benzene at 20,000 µg/l, 3600 µg/l, and 990 µg/l, from the two borings to the south of the UST. Two borings southwest of the UST contained lower, but still detectable, concentrations fuel contaminants.

Soil and Groundwater Investigation – Ceres Associates, June 2006
In June 2006, Ceres Associated performed another subsurface investigation, apparently for another possible transaction. The project included the analyses of soil and groundwater from an additional five soil borings (labeled SB-5 to SB-9). Significant concentrations of fuel contaminants were detected in both soil and groundwater, particularly in SB-7, located southeast of the UST. Logs of the borings were not made available to AEI.

Supplemental Investigation Workplan – LRM Consulting, August 2006
A fourth consultant, LRM Consulting prepared release notification documentation and a workplan for the ACHCSA in August 2006. The workplan included additional research into possible additional source locations (dispenser, piping, offsite releases, etc) and the installation of three (3) monitoring wells. The wells were proposed as 2" PVC wells with a screen interval of approximately 5 to 20 feet bgs.

Site Characterization Workplan – AEI Consultants, March 2007
The ACHCSA had several comments relating to the previous assessments, following which AEI was retained to prepare a comprehensive workplan. The workplan detailed the soil boring investigation and well installation activities presented in this report.

3.0 GEOLOGY AND HYDROLOGY

The site is located in a highly urbanized, primarily light industrial and commercial, area of Oakland. The sits is situated at an elevation of approximately 12 feet above mean sea level (msl). Based on a review of the United States Geological Survey (USGS) Oakland West, California Quadrangle topographic map the topography of the site is generally flat; however, the area slopes very gently to the southwest toward the Oakland Inner Harbor. The nearest surface water body is the harbor located approximately ¼ mile (1300 feet) to the southwest.

The site is located on the San Francisco Bay margin. According to the map Quaternary Geology of Alameda County and Surrounding Areas, California derived from OFR 97-97 (Helley, et al, 1997), the site is underlain by the Holocene and Pleistocene Merritt Sand deposits. The unconsolidated deposits of the area are generally characterized by sequences of alluvial fan and bay margin organic rich clay deposits with interfingered lake, river channel, swamp, and flood plain deposits, and the aeolian Merritt Sands. Depths to the bedrock basement in the vicinity of the site are mapped at approximately 700 feet (Norfleet, 1998).

AEI has drilled and logged a total of fourteen (14) soil borings from the two soil boring investigations at the site. Borings have been continuously cored to total depths ranging from 16 feet below ground surface (bgs) to 20 feet bgs. Copies of these logs are included in Appendix B. Soils encountered below the concrete generally consist of a clayey sand grading down to medium-grained sand at a depth of approximately 13 feet bgs. Saturated sediments were encountered in the borings by a depth of 13 feet bgs, within the coarser grained sand. Hydropunch™ discrete sampling was performed for one of the borings (SB-20) to a depth of 30 feet bgs to determine whether a second, deeper water-bearing zone existed beneath the shallow aquifer. The Hydropunch screen was initially set to an interval of 26 feet bgs to 30 feet bgs and as well as 22 feet bgs to 26 feet bgs; a second water-bearing zone was not encountered.

Based on topography and distribution of petroleum in sample data, groundwater is estimated to flow in a southwesterly to southeasterly direction. A survey of the monitoring wells has been ordered, however data was not available by issue date of the report. Survey data will be included with the next quarterly groundwater monitoring report and a hydraulic gradient and flow direction will be calculated. Fence diagrams are presented in Figures 8 and 9.

4.0 DRILLING ACTIVITIES

4.1 Soil Borings (May 29 through 30, 2007)

Prior to drilling activities, a soil boring permit was obtained from the Alameda County Public Works Agency (ACPWA) as well as a City of Oakland Encroachment Permit for two borings in the public right-of-way. Underground Utility Services (USA North) was notified to locate possible underground utilities in the drilling area. On May 29 through 30,

2007, AEI advanced twelve (12) soil borings at the property to a maximum depth of 20 feet bgs. The soil boring locations were chosen to help determine the magnitude and extent of the petroleum release. Soil boring locations are presented on Figure 2. Permit copies are presented in Appendix A.

4.2 Soil Sampling and Analyses

The borings were advanced with a truck-mounted Geoprobe model 5410 direct push drill rig. Drilling work was performed by Environmental Control Associates (ECA), California C57 license # 695970. The borings were continuously cored to total depth and were collected at approximately 4 foot intervals.

The samples were screened in the field using a photo-ionization detector (PID). Elevated PID readings, petroleum odors and staining were noted during sample collection from several of the borings. Field screening data is presented on the boring logs found in Appendix B.

The soil borings were continuously cored using a drive sampler that contained 4-foot long, 1.5-inch diameter acrylic linters. A 6-inch sample was cut from the liners at selected depths. Selected samples were sealed with Teflon tape and end caps, labeled with a unique identifier, entered onto chain of custody, and placed in a cooler with water-ice. The remainder of the core was examined and described by an AEI project geologist. The descriptions of the cores are included on the borings in Appendix B.

4.3 Groundwater Sampling

Groundwater was encountered in all of the borings at depths from approximately 13 feet bgs to 20 feet bgs. Upon encountering groundwater, a ¾" poly-vinyl chloride (PVC) temporary casingwas installed to maintain an open hole and facilitate collection of groundwater. The temporary casing consisted of one 5-foot 0.010 inch slotted section and sections of blank ¾" PVC casing. A sheen and petroleum odors were noted during sample collection from boring SB-18. Depth to groundwater was measured at approximately 9 feet bgs once the temporary casings were inserted. Boring SB-20 was continuously cored to a depth of approximately 16 feet bgs and then drilled to approximately 30 feet bgs using Hydropunch™ technology. This discrete sampling method was used to determine whether there was a second water bearing zone beneath the shallow aquifer. Groundwater was not encountered between the shallow aquifer to a depth of approximately 30 feet bgs.

Groundwater samples were collected using new disposable 3/8" bailers. Each groundwater sample was collected into three 40-ml volatile organic analysis (VOA) vials and one 1-liter amber bottles. The groundwater samples were capped so that there was no headspace or visible air bubbles, and labeled with unique identifiers. The samples were then placed into a cooler with wet ice to await transportation to laboratory.

4.4 Laboratory Analysis

On May 31, 2007, the soil and groundwater samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol for analysis. Analysis results and chain of study documentation are included as Appendix E.

Twenty four (24) soil samples and twelve (12) groundwater samples were analyzed for TPH multi-range (as gas, diesel, and motor oil), MTBE, and BTEX by EPA Method 8021 and 8015C. Three (3) soil and twelve (12) groundwater samples were analyzed for fuel additives by EPA Method 8260B. Remaining soil samples were placed on hold at the laboratory.

5.0 WELL INSTALLATION

Prior to initiating well installation activities, well construction permits (# W2007-0754 to W2007-0756) were obtained from the ACPWA. Following permit approval, drilling activities were scheduled and USA North was notified.

On August 10, 2007, AEI advanced three soil borings (MW-1, MW-2, and MW-3) at the property, and converted the borings into groundwater monitoring wells. Monitoring wells MW-1 through MW-3 were initially drilled as boreholes with a standard rotary drilling rig, running 8¼-inch diameter hollow stem augers. MW-1 and MW-3 were advanced to total depths of approximately 18 feet bgs and MW-2 was advanced to a total depth of approximately 17 feet bgs. Soil samples were collected at approximately 5' intervals or less, during drilling with a California modified split spoon sampler advanced ahead of the auger bit.

Sampling equipment, including sampling barrels, augers, and other equipment used to sample, were decontaminated between samples using a triple rinse system containing Alconox™ or similar detergent.

A six inch liner from each sample was sealed with Teflon tape and plastic caps, labeled with a unique identifier, placed in a cooler filled with water ice, and transported under appropriate chain-of-custody documentation for analysis to McCampell Analytical Inc., (DOHS Certification Number 1644) of Pittsburgh, California. Select soil samples from MW-3 were analyzed for TPH multirange and MTBE/BTEX by EPA Method 8021 and 8015C.

Following sampling activities, each borehole was converted into a monitoring well. The monitoring wells were constructed by placing a 2" diameter schedule 40 PVC casing with 5' of factory slotted 0.010-inch well screen through the augers to total depth. The screen intervals for wells MW-1 and MW-3 were set from 18 feet bgs to 8 feet bgs and screen interval for MW-2 was

set from 17 feet bgs to 7 feet bgs. An annular sand pack (consisting of clean #2/12 Sand) was installed through the augers to approximately 1 foot above the screen. A 1 foot bentonite seal was placed above the sand and the remainder of each boring was sealed with cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking inner cap was placed on the casing top. DWR well registration forms (DWR Form 188) have been completed for each of the wells and have been forwarded to the DWR.

Cuttings generated during the drilling and well installation activities were stored on-site in three (3) sealed, labeled 55-gallon drums pending disposal. The locations of the newly installed wells are presented on Figure 2 and well construction logs in Appendix B.

6.0 WELL DEVELOPMENT AND SAMPLING

The three newly installed wells were developed on August 14, 2007. The wells were developed by first using a surge block and bailer to clear the sand pack and screen of any fine sands, then a minimum of 10 well volumes of water was pumped from each well.

Groundwater samples were collected from the newly installed wells on August 21, 2007. A hydrocarbon odor was observed during the sampling of well MW-3. Depth to groundwater was measured at the three newly installed wells prior to sampling activities, ranging in depth from 8.38 feet bgs to 8.78 feet bgs. As of the date of this report, the wells have not been surveyed. A survey of the wells has been ordered, however, data is not available at the time of this report. Groundwater flow direction and gradient data will be presented in the forthcoming quarterly groundwater monitoring report.

Prior to the collection of water samples, at least three well volumes of water were purged from each well. During purging the following groundwater quality parameters were recorded: temperature, pH, specific conductivity, dissolved oxygen (DO) and oxidation-reduction potential (ORP) along with a visual estimation of turbidity. These field parameters were recorded on the Groundwater Well Sampling Field Forms (Appendix D), which include details on the sampling of each well.

Following the recovery of water levels in the wells to within 90% of the initial depth, groundwater samples were collected from each well using poly tubing and a peristaltic pump. Samples were collected into 40 ml VOA vials and capped so that neither head space nor air bubbles were visible within the sample containers. The samples were also collected into 1-liter amber bottles and 250-cc poly-bottles. The samples were labeled and placed on ice and transported under chain of custody protocol for analysis to McCampell Analytical Inc. (DOHS Certification Number 1644) of Pittsburgh, California. Three groundwater samples were analyzed for TPH multi-range (as gas, diesel, and motor oil), MTBE, and BTEX by EPA Method 802 and/8015C as well as fuel additives by EPA Method 8260B and lead by EPA Method 6010C.

7.0 SAMPLE ANALYTICAL RESULTS

7.1 Soil Analytical Results

During drilling activities conducted in May 2007, soil samples were collected from a total of twelve (12) soil borings advanced throughout the property. TPH-g was detected in sample SB-18-12' at a concentration of 30 mg/kg. BTEX was detected in sample SB-18-12' at concentrations of 0.049 mg/kg, 0.22 mg/kg, 0.36 mg/kg, and 1.8 mg/kg, respectively. TPH-d was detected in samples SB-17-12' and SB-18-12' at concentrations of 2.7 mg/kg and 10 mg/kg, respectively. None of the fuel additives or MTBE were detected exceeding laboratory reporting limits in the soil samples analyzed.

The following contaminants were detected during the installation of well MW-3 on August 10, 2007. TPH-g was detected in MW-3-10' at a concentration of 1,500 mg/kg. BTEX was detected in the same sample at concentrations of 6.0 mg/kg, 42 mg/kg, 12 mg/kg, and 120 mg/kg, respectively. No other target analytes exceeded laboratory detection limits in the soil samples analyzed. Samples from wells MW-1 and MW-2 were not analyzed, based on lack of visual impact and elevated PID readings. Soil analytical sample data is presented in Table 1.

7.2 Groundwater Analytical Results

The following contaminants were detected during the May 2007 investigation. TPH-g was detected in sample SB-18-W at a concentration of 330 µg/L. MTBE (by method 8015C) and BTEX were detected in the same sample at concentrations of 14 µg/L, 2.1 µg/L, 5.4 µg/L, 8.9 µg/L, and 31 µg/L, respectively. TPH-d was detected in samples SB- 10-W, SB-12-W, SB-13-W, SB-16-W, SB-17-W, SB-18-W, and SB-19-W at concentrations of 71 µg/L, 80 µg/L, 130 µg/L, 73 µg/L, 160 µg/L, 64 µg/L, and 59 µg/L, respectively. 1,2-Dichloroethane (1,2-DCA) was detected in samples SB-15-W through SB-18-W at concentrations of 4.5 µg/L, 2.7 µg/L, 0.52 µg/L, and 1.2 µg/L, respectively. Using method 8260, MTBE was detected in sample SB-18-W at a concentration of 19 µg/L. No other target analytes were detected exceeding laboratory reporting limits in the groundwater samples analyzed.

The following contaminants were detected during the first groundwater monitoring episode for the three (3) monitoring well conducted on August 21, 2007. TPH-g was detected in well MW-3 at a concentration of 24,000 µg/L. BTEX and TPH-d were detected in the same sample at concentrations of 2,600 µg/L, 3,500 µg/L, 450 µg/L, 2,400 µg/L, and 2,100 µg/L, respectively. Using methods 8015C and 8260, MTBE was detected in MW-3 at concentrations of 15 µg/L and 18 µg/L, respectively. 1,2- Dibromoethane (EDB) was detected in well MW-3 at a concentration of 34 µg/L. 1,2-DCA was detected in wells MW-1 and MW-3 at concentrations of 5.2 µg/L and 140 µg/L , respectively. Lead was detected in well MW-3 at a concentration of 8.6 µg/L. No other target analytes were detected

exceeding laboratory reporting limits in the groundwater samples analyzed. Groundwater sample analytical data is presented on Tables 2 through 6.

8.0 SITE CONCEPTUAL MODEL

8.1 Release Occurrence

Subsurface investigation work has identified a release of petroleum hydrocarbon product from the abandoned UST. Soil and groundwater samples have been collected from 21 soil borings in a relatively localized area around the abandoned UST. Soil sample analyses, from borings SB-7 and MW-3 in particular, suggest that the source area is the abandoned UST. The primary contaminants detected in soil and groundwater consist of gasoline, diesel, BTEX, and the fuel additives EDB and 1,2-DCA. A review for possible information about the UST at the Oakland Fire Department was requested, however, information concerning the property was not found. A request for a review of records at the City of Oakland Building Department is currently underway and if information pertinent to the fueling system is found, the findings will be presented in forthcoming reports.

MTBE was detected for the first time during the May 2007 investigation in boring SB-18 and in well MW-1 during the initial groundwater monitoring event. The presence of high concentrations of benzene detected near the UST, not typically a component of diesel fuel, suggests that the UST was historically utilized for gasoline. The detections of diesel in soil and groundwater samples are likely representative of weathered gasoline, due to the age of the tank and overlap of TPH-g and TPH-d reporting 8015 data by the lab. Qualitative observations by the laboratory chemist noted on TPH-d analytical data support this hypothesis.

8.2 Release Extent

The hydrocarbon plume has effectively been delineated in all four directions by the May 2007 investigation. Soil and groundwater sample analytical data and their distributions suggest that the release of free phase hydrocarbons is limited in extent; confined to the 325 Martin Luther King Jr. Way unit, immediately adjacent to the abandoned UST. Analytical data from the three newly installed monitoring wells confirm that the release is limited. Diesel was detected at a low concentration in one of the borings advanced in the 301 Martin Luther King Jr. Way unit.

8.3 Well Survey

Well records for all wells within a ¼ mile radius of the site were collected from both the Alameda County Public Works Agency and the State of California Department of Water

Resources. A map with the locations of the wells identified in the survey relative to the site is presented in Figure 1. The identified nearby wells are also presented in the table below.

Exhibit 1: Nearby Wells

Owner	Map ID #	Distance (ft)	Direction	Depth (ft)	Screen Interval (ft)	Use
Safety Kleen (10 wells)	1	~ 1,000	West	30-70	NA	Monitoring
East Bay Ford (1 well)	2	~ 1,750	West	24	NA	Monitoring
PG&E (3 wells)	3	~1,000	Southwest	22	NA	Monitoring
Port of Oakland (12 wells)	4	~2,000	Southwest	11-64	NA	Monitoring
Caltrans (1 well?)	5	~900	Northeast	NA	NA	Monitoring

NA – Information not available Distances and direction from the site are approximate

No municipal well groups or water supply wells were identified during the course of the well survey.

The wells identified are monitoring and located at least ~1,000 ft. away from the site. Two well groups, Map ID #3 and 4, are located down gradient from the site. However, based on the results of groundwater samples from borings SB-15 and SB-16, these monitoring wells are not expected to be impacted by this release and would not likely act as a vertical conduit for shallow impacted groundwater at the site.

In summary, based on the well survey and the magnitude of the site fuel release, none of the identified wells appear to risk acting as preferential vertical conduits for migration of site contaminants nor does there appear to be active use of groundwater in the area that would be threatened by this release. The locations of the identified wells relative to the subject site is presented on Figure 1.

The RWQCB database "Geotracker" was used to determine whether any possible documented releases to the northeast may be the source of, or contributing, to onsite groundwater pollutant concentrations. According to the database, a release to the northeast was identified at 6th Street and Castro Street and is composed of gasoline-range petroleum hydrocarbons. No detailed information concerning the release was available, as Caltrans has not uploaded any reports or electronic files to the database. Site characterization activities at the site ceased in June 2003, Caltrans citing this reason being a lack of funds. However, based on the non-detect to low concentrations of hydrocarbons detected in borings SB-10 and SB-11, high concentrations of hydrocarbons in soil around the tank hold, and the distance of the Caltrans release; this up Caltrans release does not appear to be the source of onsite hydrocarbons and is not expected to influence site conditions.

8.4 Utility Survey

A utility survey was performed by OHJ Utility Locating, Inc. on July 20, 2007. The purpose of the survey was to evaluate all utility lines which could potentially act as preferential pathways for contaminant migration. Using reflective induction, several utilities were identified and traced.

Based on the results of the survey, the possibility exists that the sewer line running underneath the 671 4th Street unit could act as a preferential pathway for contaminants. However, based on analytical data from soil and groundwater samples collected from boring SB-12, which is adjacent to the sewer line, the release does not appear to run along this sewer line as a migratory path. An illustration of the results of this survey is presented in Figure 3.

9.0 CONCLUSIONS AND RECOMMENDATIONS

On May 29 through 30, 2007, AEI advanced an additional twelve (12) soil borings at the property. The soil boring locations were chosen to help determine the magnitude and extent of the petroleum release from the abandoned in-place fuel UST. Low to moderate concentrations of petroleum hydrocarbons were detected in the soil adjacent to the abandoned UST. Based on the distribution of contaminants in groundwater, groundwater is believed to migrate towards the southwest. The free phase hydrocarbon plume release has been largely delineated, which the exception of low amounts of diesel detected in groundwater from several borings.

On August 21, 2007, three soil borings (MW-1 through MW-3) were installed at the site. Elevated concentrations of hydrocarbons were detected in the soil sample collected from well MW-3. Each boring was subsequently converted into a 2-inch diameter groundwater monitoring well. The three monitoring wells were developed and groundwater samples were collected. As of the completion of this report, the wells have not been surveyed. The survey is currently underway of which the findings will be detailed in the forthcoming groundwater monitoring report. Elevated concentrations of TPH-g and benzene persist in soil and groundwater around the abandoned UST. The results of the initial monitoring event confirm that the bulk of the free phase plume is limited to the source area at the northern corner of the 325 Martin Luther King Jr. unit at the southwest corner of the abandoned UST.

Based on information obtained during the DWR and ACPWA 2,000-foot radius well search, none of the identified wells appear to risk acting as preferential vertical conduits for migration of site contaminants nor does there appear to be active use of groundwater in the area that would be threatened by this release.

Groundwater monitoring is scheduled to continue on a quarterly basis, for up to 1 year. This is expected to confirm groundwater flow direction through an annual hydrologic cycle and establish

contaminant concentration trends. Future analyses will include TPH-g, TPH-d by EPA Method 8015, BTEX by EPA Method 8021, and fuel additives by EPA Method 8260.

10.0 REFERENCES

AEI Consultants, *Site Characterization Workplan*, March 8, 2007

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Alameda County Health Care Services Agency, *Fuel Leak Case No. RO0002930, 325 Martin Luther King Jr. Way, Oakland, CA 94607*, December 22, 2006

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Touchstone Developments, *Phase I Investigation*, November 1, 1993

11.0 SIGNATURES

This report has been prepared by AEI on behalf of the Allens relating to the release of petroleum hydrocarbons on the property located at 325 Martin Luther King Jr. Way in the City of Oakland, Alameda County, California. The discussion rendered in this report was based on field investigations and laboratory testing of material samples. 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 will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s), 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 and were performed under the direction of appropriate registered professional(s).

Please contact either of the undersigned with any questions or comments at (925) 283-6000.

Sincerely,
AEI Consultants

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Peter J. McIntyre, PG, REA
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Attn: Mr. Jerry Wickham
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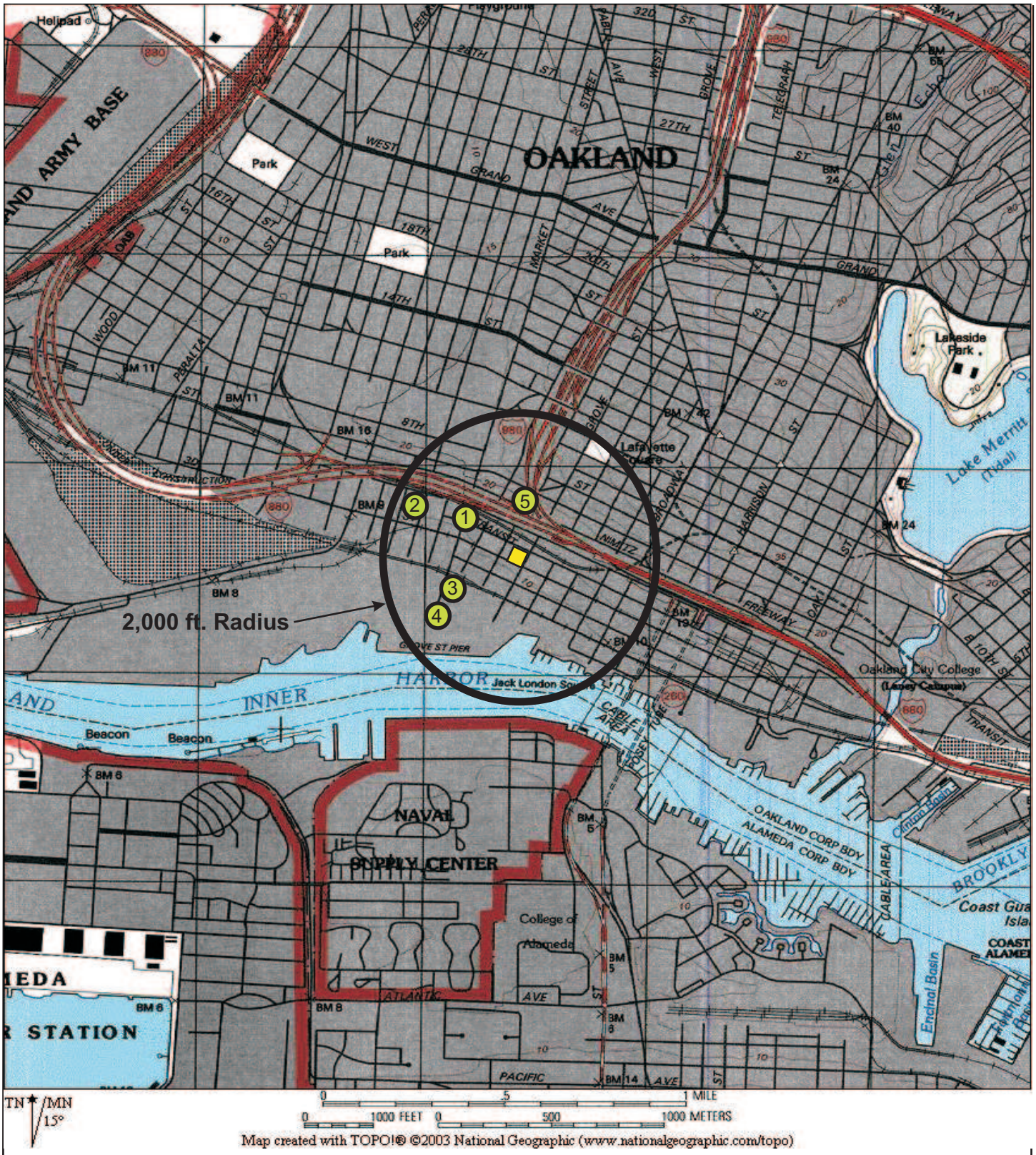
Alameda, CA 94502

GeoTracker (electronic)

FIGURES



LEGEND

N

MONITORING WELL

SITE LOCATION

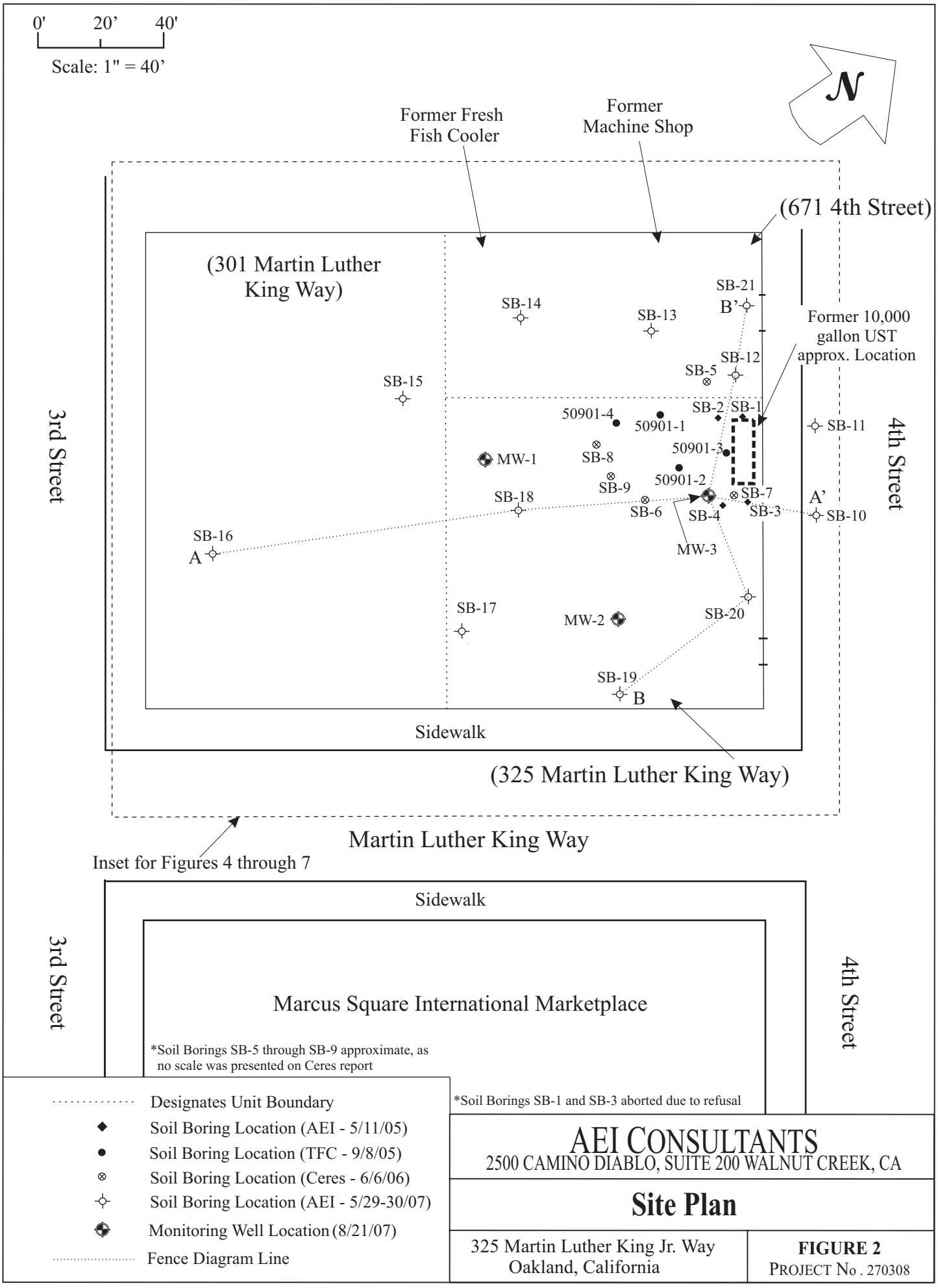
AEI CONSULTANTS

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

Well Survey

325 Martin Luther King Jr. Way
Oakland, CA 94607

FIGURE 1
Job No: 270308

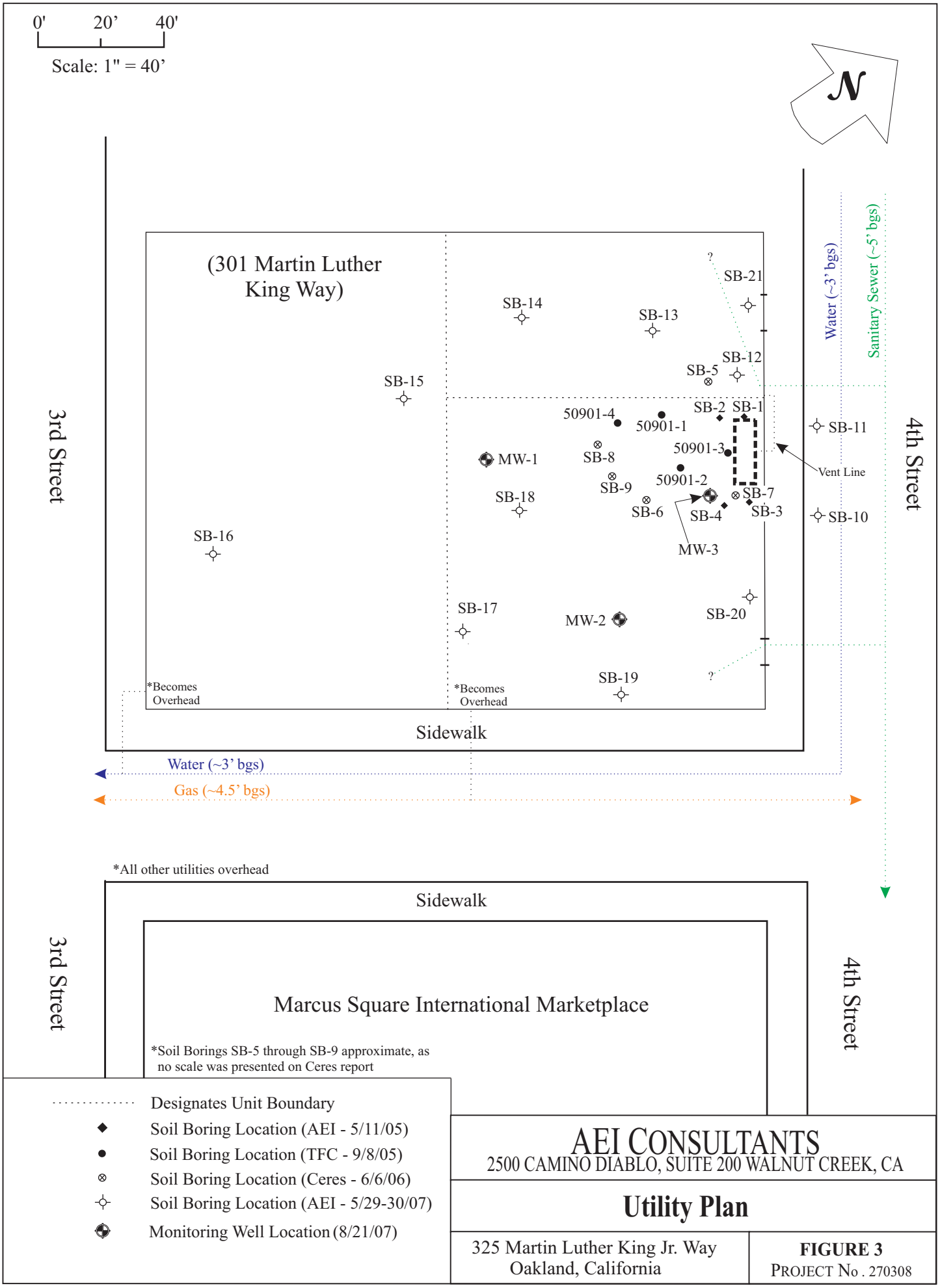


AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

Site Plan

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 2
PROJECT No . 270308

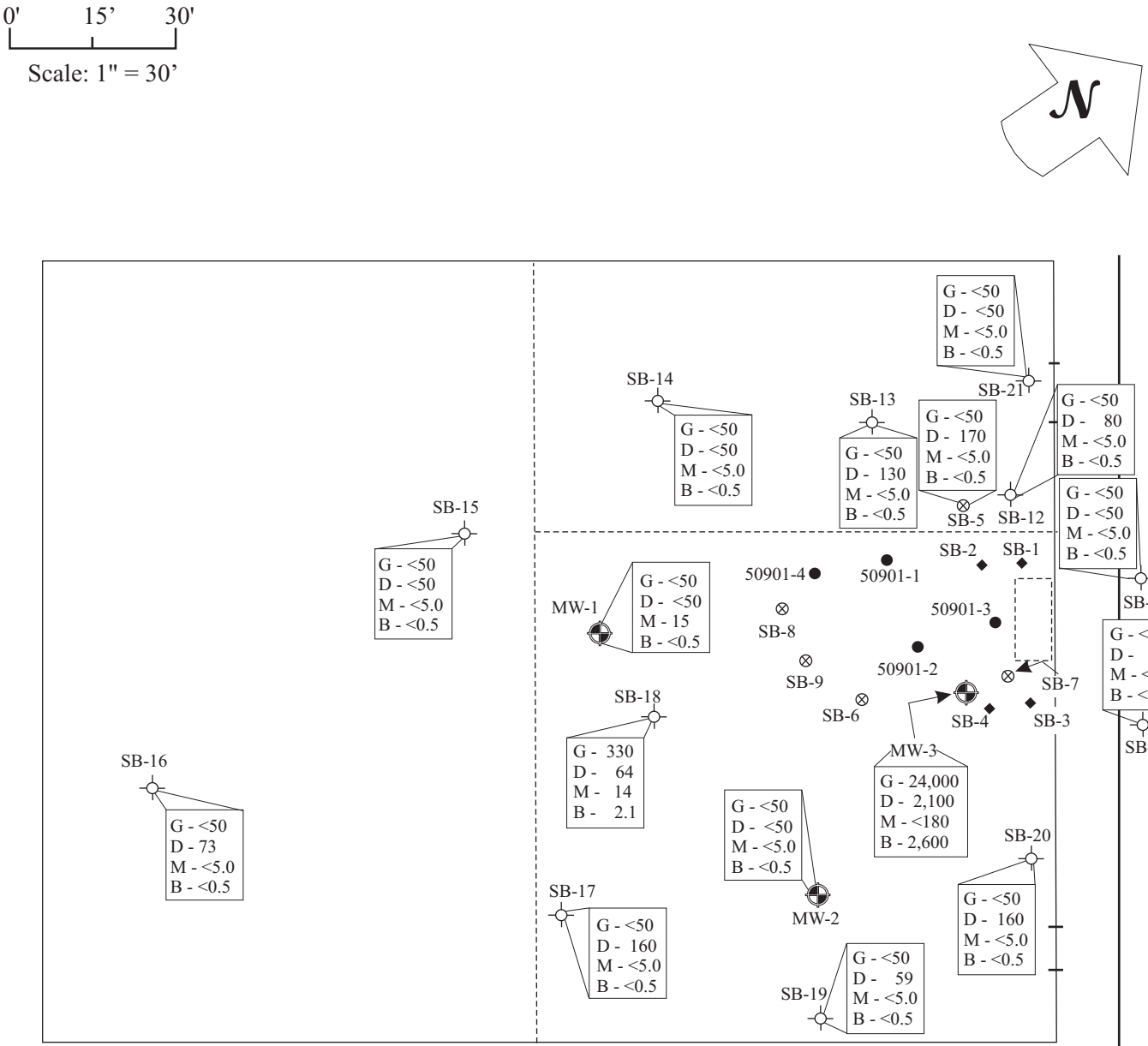


AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

Utility Plan

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 3
PROJECT No . 270308



*Soil Borings SB-5 through SB-9 approximate, as no scale was presented on Ceres report

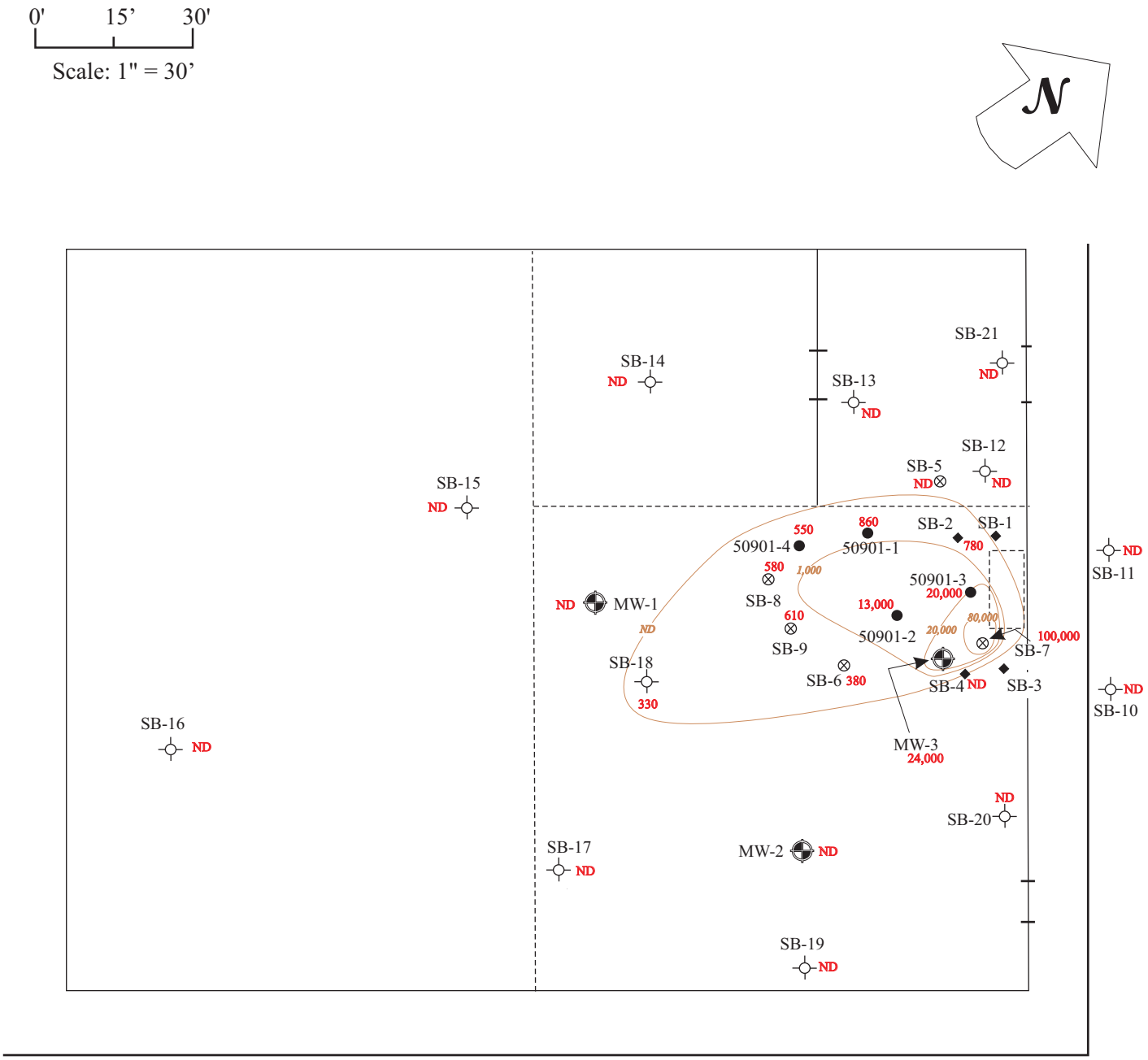
- ---------- Designates Unit Boundary
- ◆ Soil Boring Location (AEI - 5/11/05)
- ● Soil Boring Location (TFC - 9/8/05)
- ⊗ Soil Boring Location (Ceres - 6/6/06)
- ⊹ Soil Boring Location (AEI - 5/29-30/07)
- ⊕ Monitoring Well Location (8/21/07)

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

Groundwater Sample Data

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 4
PROJECT No . 270308



*Soil Borings SB-5 through SB-9 approximate, as no scale was presented on Ceres report

- Designates Unit Boundary
- Soil Boring Location (AEI - 5/11/05)
- Soil Boring Location (TFC - 9/8/05)
- Soil Boring Location (Ceres - 6/6/06)
- Soil Boring Location (AEI - 5/29-30/07)
- Monitoring Well Location (8/21/07)

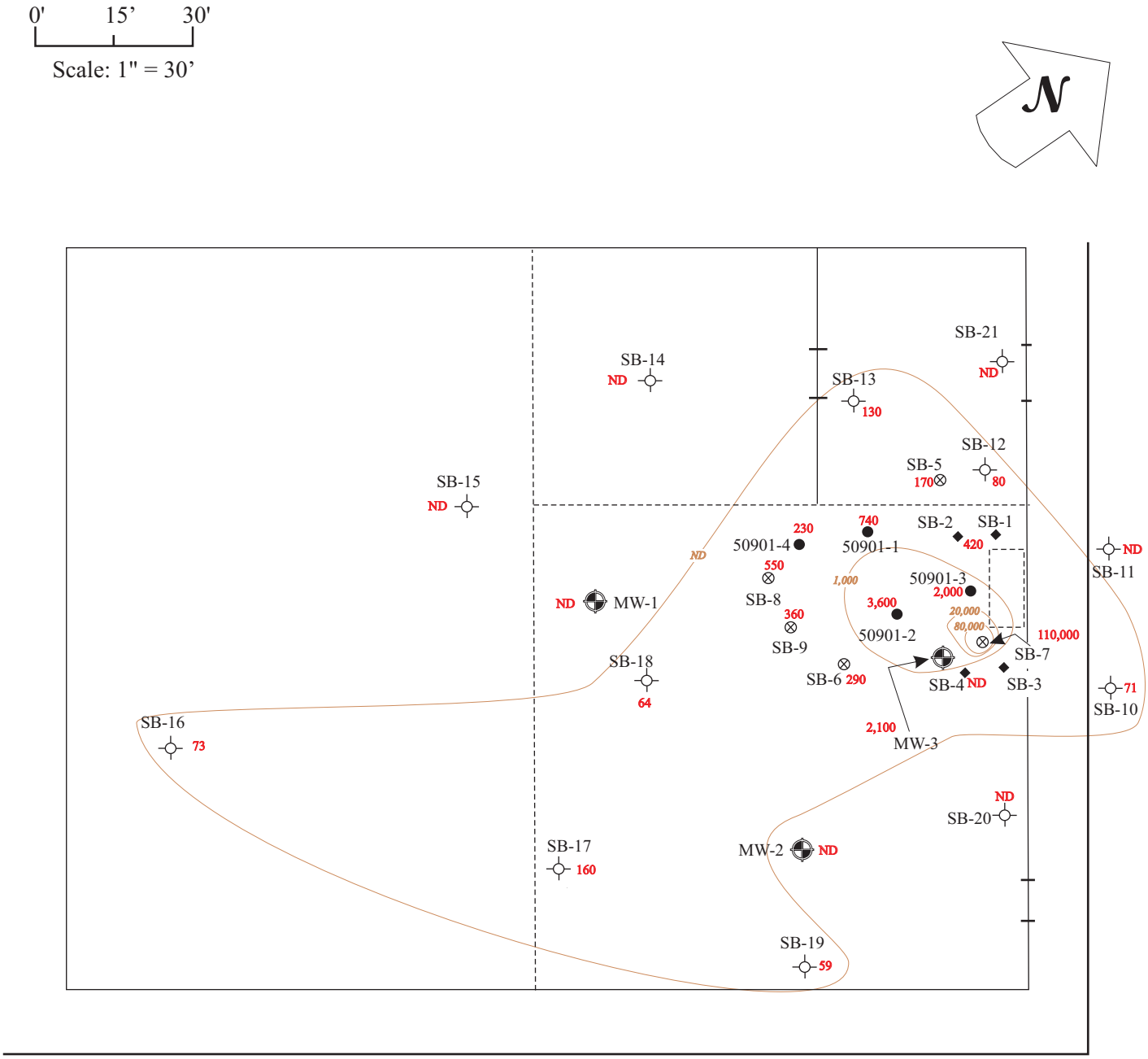
Red values: Detected contaminant concentrations
Brown values: Isoconcentration contour values

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

TPH-g in Groundwater

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 5
PROJECT No . 270308



*Soil Borings SB-5 through SB-9 approximate, as no scale was presented on Ceres report

- Designates Unit Boundary
- Soil Boring Location (AEI - 5/11/05)
- Soil Boring Location (TFC - 9/8/05)
- Soil Boring Location (Ceres - 6/6/06)
- Soil Boring Location (AEI - 5/29-30/07)
- Monitoring Well Location (8/21/07)

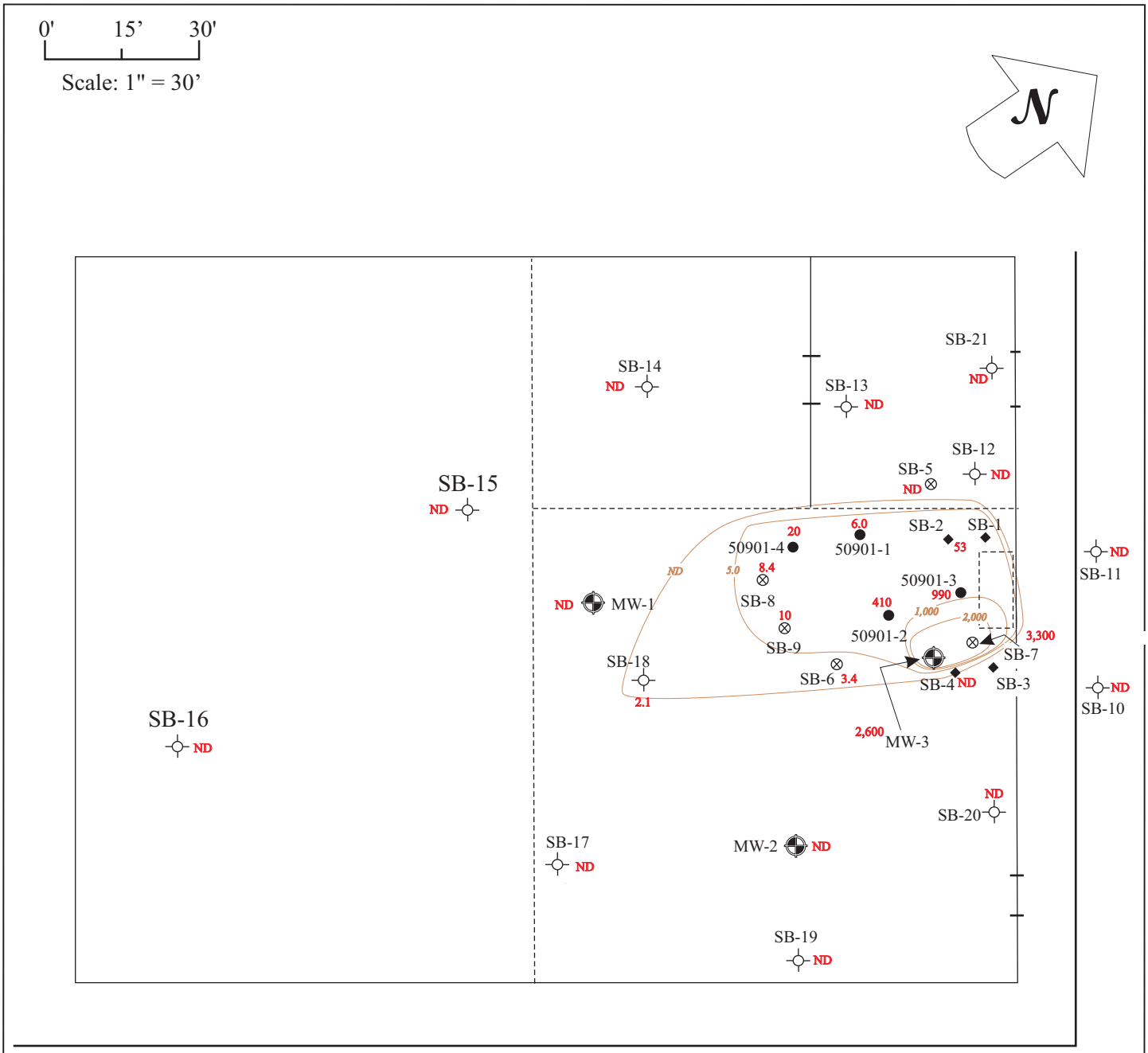
Red values: Detected contaminant concentrations
Brown values: Isoconcentration contour values

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

TPH-d in Groundwater

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 6
PROJECT No . 270308



*Soil Borings SB-5 through SB-9 approximate, as no scale was presented on Ceres report

- Designates Unit Boundary
- Soil Boring Location (AEI - 5/11/05)
- Soil Boring Location (TFC - 9/8/05)
- Soil Boring Location (Ceres - 6/6/06)
- Soil Boring Location (AEI - 5/29-30/07)
- Monitoring Well Location (8/21/07)

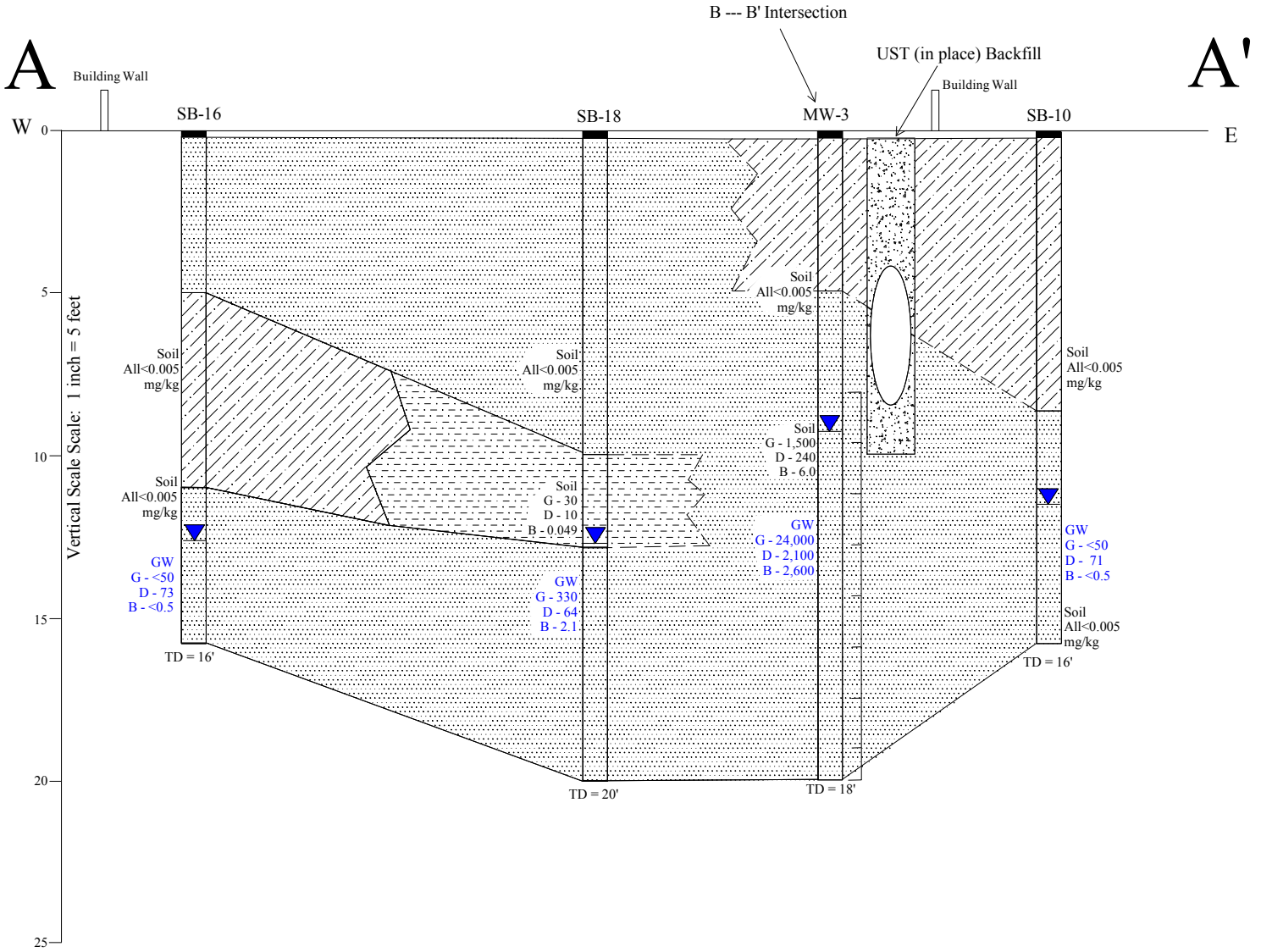
Red values: Detected contaminant concentrations
Brown values: Isoconcentration contour values

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

Benzene in Groundwater

325 Martin Luther King Jr. Way
Oakland, California

FIGURE 7
PROJECT No . 270308



Legend:

- Sand
- Silty Sand
- Clayey Silt
- Clayey Sand
- Inferred Contact
- Groundwater Level (ATD or static in well)
- Well Screen Interval (8'-18' bgs)
- UST (In place) and Backfill

NOTE:
Soil concentrations in milligrams per kilogram (mg/kg)
Groundwater concentrations in micrograms per liter (ug/L)
G - Gasoline, D - Diesel, B - Benzene
TD = total depth

0 80 160

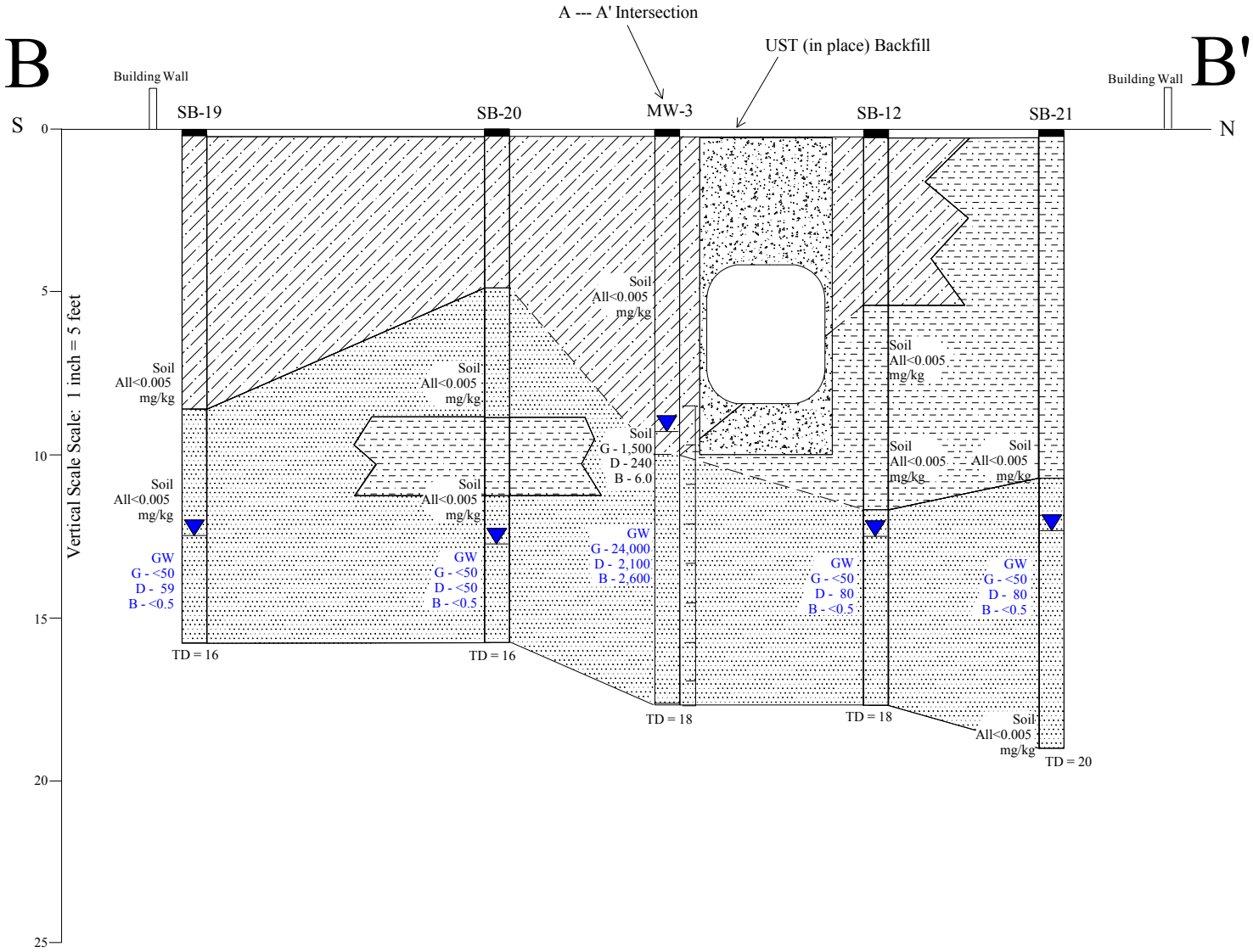
Scale 1" = 40"

AEI CONSULTANTS
2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

A - A' Fence Diagram

325 Martin Luther King Jr Way
Oakland, CA

Figure 8
PROJECT NO. 270308



Legend:

- Sand
- Silty Sand
- Clayey Silt
- Clayey Sand
- Inferred Contact
- Groundwater Level (ATD or static in well)
- Well Screen Interval (8'-18' bgs)
- UST (In place) and Backfill

NOTE:
Soil concentrations in milligrams per kilogram (mg/kg)
Groundwater concentrations in micrograms per liter (ug/L)
G - Gasoline, D - Diesel, B - Benzene
TD - total depth

0 60 120

Scale 1" = 30"

AEI CONSULTANTS
2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

B - B' Fence Diagram

325 Martin Luther King Jr Way
Oakland, CA

Figure 9
PROJECT NO. 270308

TABLES

Table 1 - AEI Project # 270308
Soil Sample Analytical Data

Sample ID	Consultant	Date Collected	TPH-g mg/Kg	TPH-d mg/Kg	MTBE mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes mg/Kg
					EPA Method SW8021B/8015Cm				
SB-2 12'	AEI	5/11/2005	10	5.6	<0.05	0.25	0.071	0.33	1.6
SB-4 12'	AEI	5/11/2005	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-5-10	Ceres	6/6/2006	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-6-10	Ceres	6/6/2006	5.0	3.1	<0.05	0.023	0.025	0.027	0.64
SB-7-10	Ceres	6/6/2006	20,000	3,300	<45	200	980	320	1,400
SB-7-17	Ceres	6/6/2006	9.2	3.4	<0.1	0.74	0.64	0.16	0.70
SB-8-10	Ceres	6/6/2006	4.7	3.0	<0.05	0.058	0.030	0.083	0.48
SB-9-10	Ceres	6/6/2006	7.5	4.2	<0.05	0.068	0.22	0.21	1.1
SB-10-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-10-16'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-11-11'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-11-16'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-12-7'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-12-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-13-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-13-14'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-14-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-14-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-15-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-15-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-16-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-16-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-17-9'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-17-12'	AEI	5/29-30/07	<1.0	2.7	<0.05	<0.005	<0.005	<0.005	<0.005
SB-18-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-18-12'	AEI	5/29-30/07	30	10	<0.17	0.049	0.22	0.36	1.8
SB-19-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-19-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-20-8'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-20-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-21-12'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-21-17'	AEI	5/29-30/07	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
MW-3-5'	AEI	8/10/2007	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
MW-3-10'	AEI	8/10/2007	1,500	240	<10	6.0	42	12	120
RL	-	-	1.0	1.0	0.05	0.005	0.005	0.005	0.005

Notes:
mg/Kg - milligrams per kilogram
TPH - g - Total Petroleum Hydrocarbons as gasoline
TPH - d - Total Petroleum Hydrocarbons as diesel
RL - Reporting Limit
AEI - AEI Consultants
Ceres - Ceres Associates
No known soil data for Terra Firma Consulting report

Table 2 - AEI Project # 270308
Groundwater Sample Analytical Data

Sample ID	Consultant	Date Collected	TPH-g ug/L	TPH-d ug/L	MTBE ug/L	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L
					EPA Method SW8021B/8015Cm				
SB-2W	AEI	5/11/2005	780	420	<5.0	53	9.0	35	100
SB-4W	AEI	5/11/2005	<50	<50	<5.0	<0.5	<0.005	<0.005	0.76
50901-1	TFC	9/8/2005	860	740	-	6.0	7.5	22	100
50901-2	TFC	9/8/2005	13,000	3,600	-	410	1,200	390	1,700
50901-3	TFC	9/8/2005	20,000	2,000	-	990	3,100	590	2,300
50901-4	TFC	9/8/2005	550	230	-	20	17	19	56
SB5-GW	Ceres	6/6/2006	<50	170	<5.0	<0.5	<0.5	<0.5	1.8
SB6-GW	Ceres	6/6/2006	380	290	<5.0	3.4	1.8	3.8	51
SB7-GW	Ceres	6/6/2006	100,000	110,000	<100	3,300	11,000	2,100	20,000
SB8-GW	Ceres	6/6/2006	580	550	<5.0	8.4	3.6	18	47
SB9-GW	Ceres	6/6/2006	610	360	<5.0	10	15	21	70
SB-10-W	AEI	5/29-30/07	<50	71	<5.0	<0.5	<0.5	<0.5	<0.5
SB-11-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-12-W	AEI	5/29-30/07	<50	80	<5.0	<0.5	<0.5	<0.5	<0.5
SB-13-W	AEI	5/29-30/07	<50	130	<5.0	<0.5	<0.5	<0.5	<0.5
SB-14-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-15-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-16-W	AEI	5/29-30/07	<50	73	<5.0	<0.5	<0.5	<0.5	<0.5
SB-17-W	AEI	5/29-30/07	<50	160	<5.0	<0.5	<0.5	<0.5	<0.5
SB-18-W	AEI	5/29-30/07	330	64	14	2.1	5.4	8.9	31
SB-19-W	AEI	5/29-30/07	<50	59	<5.0	<0.5	<0.5	<0.5	<0.5
SB-20-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-21-W	AEI	5/29-30/07	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5
RL	-	-	50	50	5.0	0.5	0.5	0.5	0.5

Notes:
ug/L - microgram per liter
TPH-g - Total Petroleum Hydrocarbons as gasoline
TPH-d - Total Petroleum Hydrocarbons as diesel
MTBE = methyl tertiary butyl ether
RL - reporting limit
AEI - AEI Consultants
TFC - Terra Firma Consulting
Ceres - Ceres Associates

Table 3 - AEI Project # 270308
Soil and Groundwater Sample Analytical Data - Fuel Additives

Sample ID	Date Collected	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L *EPA 8260B*	ETBE ug/L	Ethanol ug/L	Methanol ug/L	EDB ug/L	1,2-DCA ug/L
Soil		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-12-12'	5/29-30/2007	<0.005	<0.005	<0.05	<0.005	<0.005	<0.25	<2.5	<0.005	<0.005
SB-17-12'	5/29-30/2007	<0.005	<0.005	<0.05	<0.005	<0.005	<0.25	<2.5	<0.005	<0.005
SB-18-12'	5/29-30/2007	<0.010	<0.010	<0.10	<0.010	<0.010	<0.5	<5.0	<0.010	<0.010
Groundwater		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SB-10-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-11-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-12-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-13-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-14-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-15-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	4.5
SB-16-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	2.7
SB-17-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	0.52
SB-18-W	5/29-30/2007	19	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	1.2
SB-19-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-20-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
SB-21-W	5/29-30/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
RL	-	0.5	0.5	5	0.5	0.5	50	500	0.5	0.5

Notes:
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
RL - Reporting Limit (before any dilution)
MTBE - methyl tertiary butyl ether
TAME - tert-amyl methyl ether
TBA - tert-butyl alcohol
DIPE - diisopropyl ether
ETBE - ethyl tert-butyl ether
1,2-DCA - 1,2 - dichloroethane
EDB - 1,2 - dibromoethane

Table 4 - AEI Project # 270308
Groundwater Elevation Data

Well ID (Screen Interval)	Date Collected	Well Elevation *(ft amsl)*	Depth to Water *(ft)*	Groundwater Elevation *(ft amsl)*
MW-1 (8 - 18)	8/21/2007	-	8.38	-
MW-2 (7 - 17)	8/21/2007	-	8.78	-
MW-3 (8 - 18)	8/21/2007	-	8.59	-

Event #	Date	Average Water Table Elevation (ft amsl)	Change from Previous Episode (ft)	Flow Direction (gradient) (ft/ft)
1	8/21/2007	-	NA	-

ft amsl = feet above mean sea level
All water level depths are measured from the top of casing

Table 5 - AEI Project # 270308

Groundwater Monitoring Sample Analytical Data

Sample ID	Date	TPHg µg/L	TPHd µg/L	MTBE µg/L	Benzene µg/L	Ethylbenzene µg/L	Toluene µg/L	Xylenes µg/L	Lead µg/L
MW-1	8/21/2007	<50	<50	15	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2	8/21/2007	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	8/21/2007	24,000	2,100	<180	2,600	450	3,500	2,400	8.6

Notes:
TPHd = total petroleum hydrocarbons as diesel (C10-C23) using EPA Method 8015
TPHg = total petroleum hydrocarbons as gasoline (C6-C12) using EPA Method 8015
Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B
MTBE = methyl-tertiary butyl ether using EPA Method 8021B
Lead using EPA Method E200.8
µg/L= micrograms per liter
ND<50 = non detect at respective reporting limit

Table 6 - AEI Project # 270308
Groundwater Monitoring Sample Analytical Data - Fuel Additives

Sample ID	Date Collected	MTBE ug/L	TAME ug/L	TBA ug/L	DIPE ug/L *EPA 8260B*	ETBE ug/L	Ethanol ug/L	Methanol ug/L	EDB ug/L	1,2-DCA ug/L
MW-1	8/21/2007	18	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	5.2
MW-2	8/21/2007	<0.5	<0.5	<5.0	<0.5	<0.5	<50	<500	<0.5	<0.5
MW-3	8/21/2007	<5.0	<5.0	<50	<5.0	<5.0	<500	<5000	34	140
RL	-	0.5	0.5	5	0.5	0.5	50	500	0.5	0.5

Notes:
mg/kg - milligrams per kilogram
µg/L - micrograms per liter
RL - Reporting Limit (before any dilution)
MTBE - methyl tertiary butyl ether
TAME - tert-amyl methyl ether
TBA - tert-butyl alcohol
DIPE - diisopropyl ether
ETBE - ethyl tert-butyl ether
1,2-DCA - 1,2 - dichloroethane
EDB - 1,2 - dibromoethane

APPENDIX A

Permits

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: 05/23/2007 By jamesy

Permit Numbers: W2007-0639
Permits Valid from 06/04/2007 to 06/05/2007

Application Id:	1179872569804	**City of Project Site:** Oakland
Site Location:	671 4th Street	
Project Start Date:	06/04/2007	**Completion Date:** 06/05/2007
Applicant:	AEI Consultants - Adrian Angel 2500 Camino Diablo, Walnut Creek, CA 94597	**Phone:** 925-283-6000
Property Owner:	Jane and Kimball Allen 2 Lone Tree Avenue, Mill Valley, CA 94941	**Phone:** 415-383-2689
Client:	** same as Property Owner **	
Contact:	Adrian Angel	**Phone:** 925-283-6000 **Cell:** 831-331-3547

Total Due: $200.00
Receipt Number: WR2007-0229 **Total Amount Paid:** $200.00
Payer Name : Robert F. Flory Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 11 Boreholes
Driller: ECA - Lic #: 695970 - Method: DP

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0639	05/23/2007	09/02/2007	11	2.75 in.	20.00 ft

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. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

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 or email to vickyh@acpwa.org 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. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or

waterways or be allowed to move off the property where work is being completed.

6. 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.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

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: 07/13/2007 By jamesy

Permit Numbers: W2007-0754 to W2007-0756
Permits Valid from 07/16/2007 to 07/16/2007

Application Id: 1183657572203
Site Location: 325 Martin Luther King Jr Way
Project Start Date: 07/16/2007

City of Project Site: Oakland

Completion Date: 07/16/2007

Applicant: AEI Consultants - Adrian Angel
2500 Camino Diablo, Walnut Creek, CA 94597
Phone: 925-283-6000

Property Owner: Jane and Kimbal Allen
2 Lone Tree Avenue, Mill Valley, CA 94941
Phone: 415-383-2689

Client: ** same as Property Owner **

Contact: Adrian Angel
Phone: 925-283-6000
Cell: 831-331-3547

Total Due: $900.00
Receipt Number: WR2007-0303 **Total Amount Paid:** $900.00
Payer Name : All Environmental Incorporated Paid By: MC **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: Gregg Drilling - Lic #: 485765 - Method: auger

Work Total: $900.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007-0754	07/13/2007	10/14/2007	MW-1	8.25 in.	2.00 in.	5.00 ft	17.00 ft
W2007-0755	07/13/2007	10/14/2007	MW-2	8.25 in.	2.00 in.	5.00 ft	17.00 ft
W2007-0756	07/13/2007	10/14/2007	MW-3	8.25 in.	2.00 in.	5.00 ft	17.00 ft

Specific Work Permit Conditions

1. 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.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org 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.

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. 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.

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERIN(

Permit valid for 90 days from date of issuance.

PERMIT NUMBER	SITE ADDRESS/LOCATION
X 0 7 0 0 5 1 5	# 671 4th St. Oakland, CA
APPROX. START DATE / APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS 654919 / A HAZ	CITY BUSINESS TAX #

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____

2- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.

3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

X _____ 5/21/07

Signature of Permittee ☐ Agent for ☐ Contractor ☐ Owner — Date

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED	

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation.

Job Site 671 4TH ST Parcel# 001 -0121-031-01 Appl# X0700515

Descr soil boring on 4th St between M.L. King Jr Way & Castro St Permit Issued 05/21/07

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	ALLEN KIMBALL & JANE				
Contractor	ALL ENVIRONMENTAL INC	X	(925)283-6000	654919	A
Arch/Engr					
Agent					

Applic Addr 2500 CAMINO DIABLO, WALNUT CREEK, CA, 94597

$414.25	TOTAL FEES PAID AT ISSUANCE		
$61.00	Applic	$300.00	Permit
$.00	Process	$34.30	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$18.95	Tech Enh

CITY FILE

JOB SITE

ADDRESS:

DIST:

Date: 05/21/07 Amt Paid: $414.25
By: SKJ Register R03 Receipt# 116281

APPENDIX B

Soil Boring Logs

Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-10** Sheet 1 of 1

Date(s) Drilled **May 29, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **12 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Silty Sand, dark to reddish brown, slightly loose, poorly graded, dry		
	5							
		X	SB-10-8'	SP		Sand, tannish brown, poorly graded, slightly loose, moist	<1	
	10					becoming very moist		
				SP		(ATD) ▽ Sand, tannish brown, medium grained sand, poorly graded, SATURATED		
		X	SB-10-13'				<1	
	15	X	SB-10-16'				<1	
						Bottom of Boring at 16 feet bgs		
	20							

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Figure

Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-11** Sheet 1 of 1

Date(s) Drilled **May 29, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **14 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Clayey Sand, dark to reddish brown, slightly loose, poorly graded, dry		
	5							
				SP		Silty Sand, tannish brown, poorly graded, slightly loose, slightly moist, increasing in moisture with depth		
			SB-11-7'				<1	
	10					becoming very moist		
				SP		Sand, tannish brown, medium grained sand, poorly graded, SATURATED		
			SB-11-14'			(ATD)	<1	
	15		SB-11-16'				<1	
						Bottom of Boring at 16 feet bgs		
	20							

Figure

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Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-12** Sheet 1 of 1

Date(s) Drilled **May 29, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **18 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **~13 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Clayey Sand, dark to reddish brown, slightly loose, poorly graded, dry		
	5		SB-12-7'				<1	
						Clay content decreasing		
	10					becoming very moist		
			SB-12-12'				<1	
				SP		Sand, tannish brown, medium grained sand, poorly graded, SATURATED, slight petroleum hydrocarbon odor in groundwater sample		
	15							
						Bottom of Boring at 18 feet bgs		
	20							

Figure

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Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-13** Sheet 1 of 1

Date(s) Drilled **May 29, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **20 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **15 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Clayey Sand, dark to reddish brown, loose, fine grained sand, poorly graded, dry		
			SB-13-5'				<1	
	5			SP		Silty Sand, tannish brown, poorly graded, fine grained sand, slightly loose, moist		
			SB-13-8'				<1	
						becoming very moist		
	10							
			SB-13-14'				<1	
	15			SP		(ATD) Sand, tannish brown, medium grained sand, poorly graded, SATURATED		
			SB-13-19'				<1	Insufficient groundwater recharge, drilled to 20 feet bgs
	20					Bottom of Boring at 20 feet bgs		

Figure

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Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-14** Sheet 1 of 1

Date(s) Drilled **May 29, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **13 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Clayey Sand, dark to reddish brown, slightly loose, fine grained sand, poorly graded, dry		
	5		SB-14-5'				<1	
				SP		Silty Sand, tannish brown, poorly graded, fine grained sand, slightly loose, locally mottled (light grey), moist		
			SB-14-8'			becoming very moist	<1	
	10							
				SP		(ATD) ▽ Sand, tannish brown, medium grained sand, poorly graded, SATURATED		
			SB-14-12'				<1	
	15		SB-14-16'				<1	
						Bottom of Boring at 16 feet bgs		
	20							

Figure

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Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-15** Sheet 1 of 1

Date(s) Drilled **May 29, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **13 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Clayey Sand, dark brown, slightly loose, fine grained sand, poorly graded, dry		
	5		SB-15-5'				<1	
				SP		Silty Sand, tannish brown, poorly graded, fine grained sand, slightly loose, locally mottled (light grey), moist		
			SB-15-8'			becoming very moist	<1	
	10							
				SP		(ATD) Sand, tannish brown, medium grained sand, poorly graded, SATURATED		
			SB-15-12'				<1	
	15		SB-15-16'				<1	
						Bottom of Boring at 16 feet bgs		
	20							

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Figure

Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-16** Sheet 1 of 1

Date(s) Drilled **May 30, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **13 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Sand, dark brown, slightly loose, fine grained sand, locally clayey, poorly graded, dry		
			SB-16-5'				<1	
	5			SP		Silty Sand, tannish brown, poorly graded, fine grained sand, oxidized streaks, slightly loose, locally mottled (light grey), moist		
			SB-16-8'			becoming very moist	<1	
	10							
				SP		(ATD) Sand, tannish brown, medium grained sand, poorly graded, SATURATED		
			SB-16-12'				<1	
	15		SB-16-16'				<1	
						Bottom of Boring at 16 feet bgs		
	20							

Figure

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Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-17** Sheet 1 of 1

Date(s) Drilled **May 30, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **20 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **14 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Sand, dark to reddish brown, slightly loose, fine grained sand, locally clayey, poorly graded, dry, increasing in moisture with depth		
	5		SB-17-5'				<1	
			SB-17-9'			staining observed, changing color of soil to olive brown, petroleum hydrocarbon odors noted (smear zone contamination?)	2.8	
	10			SP		Clayey Sand, olive brown, poorly graded, moderate petroleum hydrocarbon odors		
			SB-17-12'				4.5	
				SP		(ATD) Sand, olive brown, medium grained sand, poorly graded, SATURATED, moderate petroleum hydrocarbon odors		
	15		SB-17-16'				2.1	
			SB-17-20'				1.4	Not enough groundwater to sample, drilled to 20 feet bgs
	20					Bottom of Boring at 20 feet bgs		

Figure

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Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-18** Sheet 1 of 1

Date(s) Drilled **May 30, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **20 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **13 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Sand, dark to reddish brown, slightly loose, fine grained sand, locally clayey, poorly graded, dry, increasing in moisture with depth		
	5		SB-18-5'				<1	
						staining observed, changing color of soil to olive brown, petroleum hydrocarbon odors noted (smear zone contamination?)		
	10			ML		Clayey Silt, olive brown, poorly graded, moderate petroleum hydrocarbon odors		
			SB-18-12'				2.6	
				SP		(ATD) ▽ Sand, olive brown, medium grained sand, poorly graded, SATURATED, moderate petroleum hydrocarbon odors		
	15		SB-18-16'				2.1	
			SB-18-20'				<1	Not enough groundwater to sample, drilled to 20 feet bgs
	20					Bottom of Boring at 20 feet bgs		

Figure

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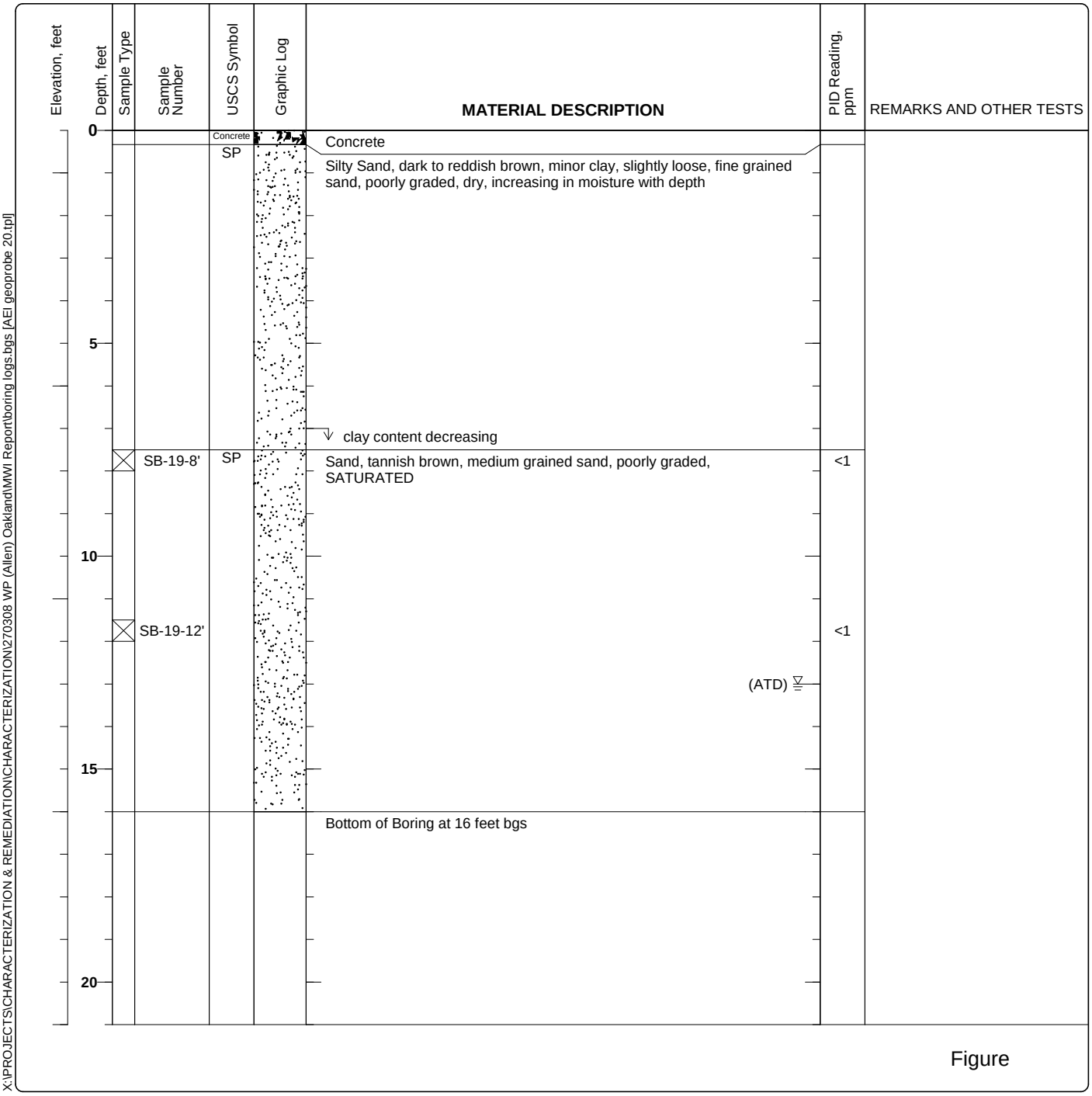
Project: Allen Project Location: 325 Martin Luther King Jr Way, Oakland, CA Project Number: 270308	**Log of Boring SB-19** Sheet 1 of 1

Date(s) Drilled **May 30, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **13 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	



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Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-20** Sheet 1 of 1

Date(s) Drilled **May 30, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **16 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **13.5 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	

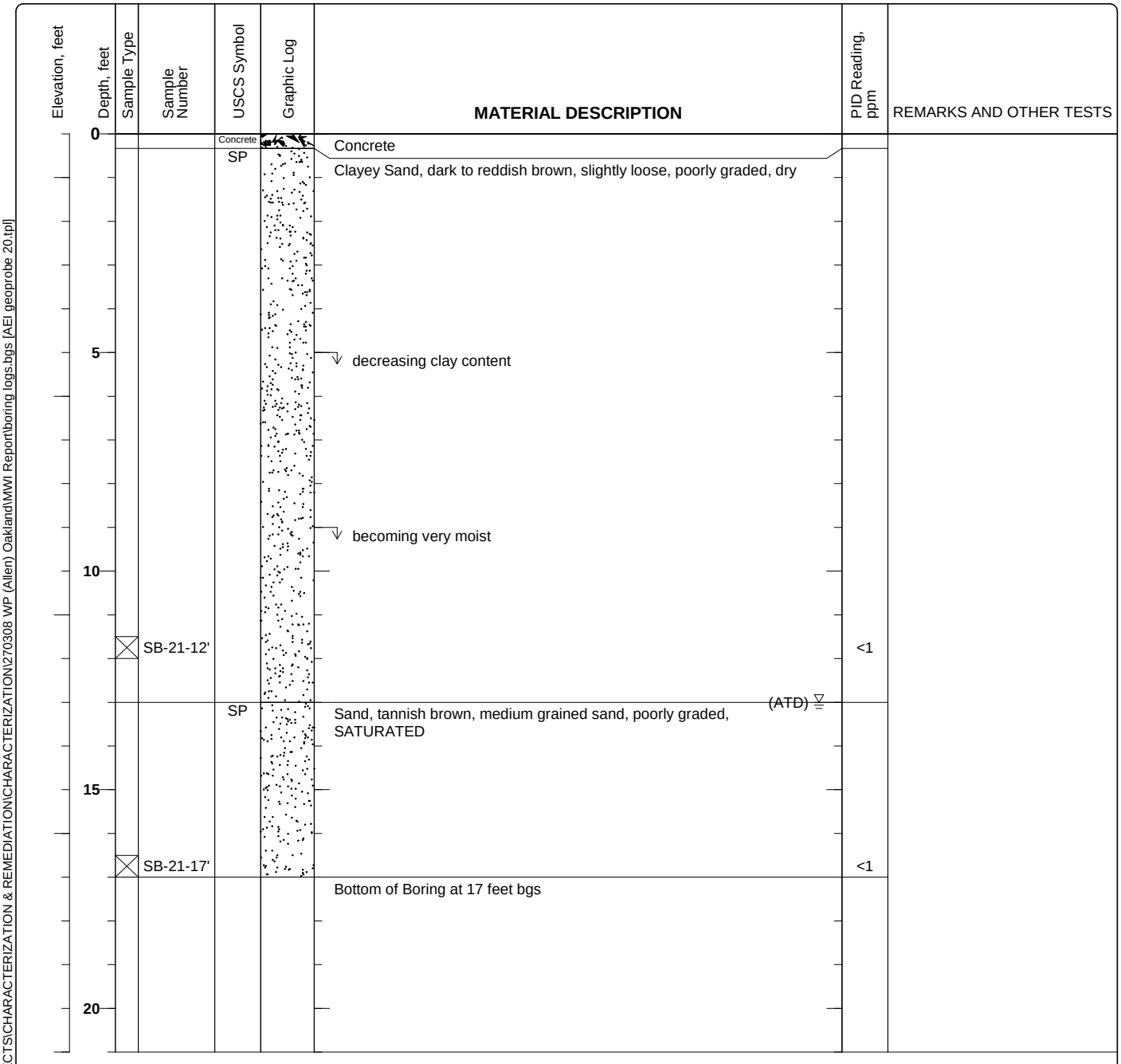
Elevation, feet	Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
	0			Concrete		Concrete		
				SP		Silty Sand, dark to reddish brown, minor clay, slightly loose, fine grained sand, poorly graded, dry		
	5					becoming moist		
			SB-20-8'				<1	
				ML		Clayey Silt, reddish to dark brown, poorly graded, fine sand grains, organic streaks, moist		
	10							
			SB-20-12'	SP		Sand, tannish brown, medium grained sand, poorly graded, wet	<1	
						becoming SATURATED (ATD)		
	15							
						Bottom of Boring at 16 feet bgs		Hydropunched to depth of approx. 30 feet bgs, no groundwater encountered beneath shallow aquifer
	20							

Figure

X:\PROJECTS\CHARACTERIZATION & REMEDIATION\CHARACTERIZATION\270308 WP (Allen) Oakland\MWI Report\boring logs.bgs [AEI geoprobe 20.tpl]

Project: Allen **Project Location: 325 Martin Luther King Jr Way, Oakland, CA** **Project Number: 270308**	**Log of Boring SB-21** Sheet 1 of 1

Date(s) Drilled **May 30, 2007**	Logged By **Adrian Angel**	Checked By **Peter McIntyre**
Drilling Method **Direct Push**	Drill Bit Size/Type **2.8 inch**	Total Depth of Borehole **17 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **ECA**	Approximate Surface Elevation
Groundwater Level and Date Measured **13 feet ATD**	Sampling Method(s) **Tube**	Well Permit.
Borehole Backfill **Tremied; Portland Cement & Grout**	Location	



Figure

X:\PROJECTS\CHARACTERIZATION & REMEDIATION\CHARACTERIZATION\270308 WP (Allen) Oakland\MWI Report\boring logs.bgs [AEI geoprobe 20.tpl]

APPENDIX C

Department of Water Resources
188 Forms

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

APPENDIX D

Groundwater Monitoring
Field Forms

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	ALLEN	Date of Sampling:	8/21/2007
Job Number:	270308	Name of Sampler:	A Nieto
Project Address:	235 Martin Luther King Jr way, Oakland Ca		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	-		
Depth of Well	18.00		
Depth to Water (from top of casing)	8.38		
Water Elevation (feet above msl)	-		
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)	**4.6**		
Actual Volume Purged (gallons)	5.0		
Appearance of Purge Water	light grey till 3 gal, then clear		
Free Product Present?	no	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
12:48	1	18.05	6.85	2677	9.2	65.0	Clear
12:49	2	18.27	6.91	2976	8.23	61.0	Clear
12:50	3	18.03	6.95	3167	7.47	58.1	Clear
	4	17.75	6.92	3200	7.3	56.0	Clear
	5	17.6	6.91	3190	7.12	55.5	Clear

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

Brown no odors/smell detected. Fast cleaning

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	ALLEN	Date of Sampling:	8/21/2007
Job Number:	270308	Name of Sampler:	A Nieto
Project Address:	235 Martin Luther King Jr way, Oakland Ca		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	-		
Depth of Well	18.52		
Depth to Water (from top of casing)	8.78		
Water Elevation (feet above msl)	-		
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)	**4.8**		
Actual Volume Purged (gallons)	5.5		
Appearance of Purge Water	Light brown till 0.75 gal, then clear		
Free Product Present?	no	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1:00	1	18.81	6.83	2772	5.48	82.4	Brown
	2	18.53	6.89	2848	6.37	71.2	Light
	3	18.3	6.93	2939	6.39	63.6	Light
	4	18.05	7.12	3794	7.26	855.3	Light
	5	18.01	7.17	3864	6.55	50.2	Light

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

Brown with no HC odors present. Light brown at 1.5 gallons. Dryed out at 3.5 at 1:03 PM. Recharged at 1:11 PM

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	ALLEN	Date of Sampling:	8/21/2007
Job Number:	270308	Name of Sampler:	A Nieto
Project Address:	235 Martin Luther King Jr way, Oakland Ca		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)			
Depth of Well	17.56		
Depth to Water (from top of casing)	8.59		
Water Elevation (feet above msl)			
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)	**4.3**		
Actual Volume Purged (gallons)	5.0		
Appearance of Purge Water	Light grey till 1.5 gal, then clear		
Free Product Present?	Yes / No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1:18	1	18.49	6.89	2318	2.31	31.5	Clear
1:19	2	18.77	6.88	2535	1.66	21.9	Clear
1:20	3	18.61	6.86	2852	1.2	8.2	Clear
	4	18.45	6.85	2895	1.17	4.2	Clear
	5	18.29	6.79	2637	1.21	-9.7	Clear

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

Brown with strong HC odors present. Clears at 1 Gallon

APPENDIX E

Laboratory Analytical Results
And
Chain of Custody Documentation

McCampbell Analytical, Inc.
"When Quality 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 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
		Date Received: 05/31/07
	Client Contact: Adrian Angel	Date Reported: 06/07/07
	Client P.O.:	Date Completed: 06/07/07

WorkOrder: 0705783

June 07, 2007

Dear Adrian:

Enclosed are:

1). the results of **36** analyzed samples from your **#270308; Allen 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

0705783 10-21 AEL 1/4

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No **Email PDF Report:** YES

Report To: Adrian Angel	**Bill To:** Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	**Fax:** (925) 944-2895
Project #: 270308	**Project Name:** Allen
Project Location: 671 4th Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260 - 10xy's	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
SB-10-8'		5/30/07	1:10P	1	A	X					X				X	X															
SB-10-13'			1:15P	1	c																										
SB-10-16'			—		e										X	X															
SB-11-7'			12:10P		t																										
SB-11-11'			12:17P		g										X	X															
SB-11-14'			12:48P		t																										
SB-11-16'			12:54P		e										X	X															
SB-12-7'			10:30A												X	X															
SB-12-12'			10:50A												X	X							X								
SB-13-5'		5/29/07	2:45P																												
SB-13-8'			2:55P												X	X															
SB-13-14'			3:00P												X	X															
SB-13-19'			3:15P																												
SB-14-5'			9:30A	↓	↓	↓					↓																				

Relinquished By:	**Date:** 5/30/07	**Time:** 6:00P	**Received By:** Enviro-Tech S.R.
Relinquished By: Enviro-Tech S.R.	**Date:** 5/30	**Time:** 1951	**Received By:**
Relinquished By:	**Date:** 5/30	**Time:** 2010	**Received By:**

OFF Hold 5/31/07

ICE/t° 13.6
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ____

PRESERVATION APPROPRIATE ✓
CONTAINERS ✓
PERSERVED IN LAB ____

VOAS	O&G	METALS	OTHER

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No **Email PDF Report: YES**

Report To: Adrian Angel	**Bill To:** Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	**Fax:** (925) 944-2895
Project #: 270308	**Project Name:** Allen
Project Location: 671 4th Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260 – 9 Oxy's	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
SB-14-8'		5/29/07	9:35A	1	A		X				X				X	X															
SB-14-12'			9:45A		C										X	X															
SB-14-16'			—		e																										
SB-15-5'			12:35P		t																										
SB-15-8'			12:30P		g										X	X															
SB-15-12'			12:40P		t										X	X															
SB-15-16'			1:00P		e																										
SB-16-5'			—																												
SB-16-8'			1:10P												X	X															
SB-16-12'			1:20P												X	X															
SB-16-16'			1:35P																												
SB-17-5'			10:50A																												
SB-17-9'			10:53A				↓								X	X															
SB-17-12'			11:00A	↓	↓						↓				X	X							X								

Relinquished By:	Date:	Time:	Received By:
	5/30/17	6:00P	Enviro-Tech S.R.
Relinquished By: Enviro-Tech S.R.	Date: 5/30	Time: 1451	Received By:
Relinquished By:	Date: 5/30	Time: 2010	Received By:

	VOAS	O&G	METALS	OTHER
ICE/t° 13.6				
GOOD CONDITION ✓	PRESERVATION			
HEAD SPACE ABSENT ✓	APPROPRIATE			
DECHLORINATED IN LAB _____	CONTAINERS ✓			
	PERSERVED IN LAB _____			

3/4

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☑ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☑ Yes ☐ No **Email PDF Report:** YES

Report To: Adrian Angel	**Bill To:** Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	**Fax:** (925) 944-2895
Project #: 270308	**Project Name:** Allen
Project Location: 671 4th Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260 – 90xy's	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
SB-17-16'		5/29/07	11:08A	1	A		X				X																				
SB-17-20'			11:01A		C																										
SB-18-5'			1:50P		e																										
SB-18-8'			2:00P		t										X	X															
SB-18-12'			2:10P		a										X	X							X								
SB-18-16'			2:20P		t																										
SB-18-20'			2:14P		e																										
SB-19-8'			10:18A												X	X															
SB-19-12'			10:30A												X	X															
SB-20-5'			9:40A																												
SB-20-8'			—												X	X															
SB-20-12'			—												X	X															
SB-20-16'			10:10A																												
SB-21-12'		5/30/07	11:00A	↓	↓		↓				↓				X	X															

Relinquished By:	Date:	Time:	Received By:
	5/30/07	6:00P	Enviro-Tech S.R.
Enviro-Tech S.R.	5/30	1451	
	5/30	20:10	

ICE/t° 13.6 GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ DECHLORINATED IN LAB _____

PRESERVATION	VOAS	O&G	METALS	OTHER
APPROPRIATE CONTAINERS	✓			

PERSERVED IN LAB _____

4/4

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No Email PDF Report: YES

Report To: Adrian Angel	Bill To: Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	Fax: (925) 944-2895
Project #: 270308	Project Name: Allen
Project Location: 671 4th Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260 – 10x4's	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
SB-21-17'		5/30/07		1	Acetate EOA		X				X				X	X															
+30 SB-10-W				6		X									X	X							X								
+ SB-11-W															X	X							X								
+10 SB-12-W															X	X							X								
+20 SB-13-W															X	X							X								
+10 SB-14-W															X	X							X								
+1 SB-15-W															X	X							X								
+ SB-16-W															X	X							X								
+ SB-17-W															X	X							X								
+ SB-18-W															X	X							X								
+20 SB-19-W															X	X							X								
+4 SB-20-W															X	X							X								
+3 SB-21-W															X	X							X								

Other	VOAS	O&G	METALS	OTHER
PRESERVATION				
APPROPRIATE CONTAINERS	✓			

Relinquished By:	Date:	Time:	Received By:
	5/31/07	6:00P	ENVIRO-TECH S.R.
ENVIRO-TECH S.R.	5/30	1951	
	5/30	2010	

ICE/t° 13.6
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0705783 **ClientID: AEL**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Adrian Angel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Email: aangel@aeiconsultants.com
TEL: (925) 283-600 FAX: (925) 283-612
ProjectNo: #270308; Allen
PO:

Bill t
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received **05/31/2007**
Date Printed: **06/05/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0705783-001	SB-10-8'	Soil	05/30/07 1:10:00	☐			A			A						
0705783-003	SB-10-16'	Soil	05/30/07	☐			A			A						
0705783-005	SB-11-11'	Soil	05/30/07 12:12:00	☐			A			A						
0705783-007	SB-11-16'	Soil	05/30/07 12:59:00	☐			A			A						
0705783-008	SB-12-7'	Soil	05/30/07 10:30:00	☐			A			A						
0705783-009	SB-12-12'	Soil	05/30/07 10:50:00	☐	A		A			A						
0705783-011	SB-13-8'	Soil	05/29/07 2:55:00	☐			A			A						
0705783-012	SB-13-14'	Soil	05/29/07 3:00:00	☐			A			A						
0705783-015	SB-14-8'	Soil	05/29/07 9:35:00	☐			A			A						
0705783-016	SB-14-12'	Soil	05/29/07 9:45:00	☐			A			A						
0705783-019	SB-15-8'	Soil	05/29/07 12:30:00	☐			A			A						
0705783-020	SB-15-12'	Soil	05/29/07 12:40:00	☐			A			A						
0705783-023	SB-16-8'	Soil	05/29/07 1:10:00	☐			A			A						
0705783-024	SB-16-12'	Soil	05/29/07 1:20:00	☐			A			A						
0705783-027	SB-17-9'	Soil	05/29/07 10:53:00	☐			A			A						

Test Legend:

1	9-OXYS_S	2	9-OXYS_W	3	G-MBTEX_S	4	G-MBTEX_W	5	PREDF REPORT
6	TPH(D)_S	7	TPH(D)_W	8		9		10	
11		12							

Prepared by: Sheli Cryderman

Comments: Acetates on hold in extraction fridge

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0705783 **ClientID: AEL**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Adrian Angel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
Email: aangel@aeiconsultants.com
TEL: (925) 283-600 FAX: (925) 283-612
ProjectNo: #270308; Allen
PO:

Bill t
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received **05/31/2007**
Date Printed: **06/05/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0705783-028	SB-17-12'	Soil	05/29/07 11:00:00	☐	A		A			A						
0705783-032	SB-18-8'	Soil	05/29/07 2:00:00	☐			A			A						
0705783-033	SB-18-12'	Soil	05/29/07 2:10:00	☐	A		A			A						
0705783-036	SB-19-8'	Soil	05/29/07 10:18:00	☐			A			A						
0705783-037	SB-19-12'	Soil	05/29/07 10:30:00	☐			A			A						
0705783-039	SB-20-8'	Soil	05/29/07	☐			A			A						
0705783-040	SB-20-12'	Soil	05/29/07	☐			A			A						
0705783-042	SB-21-12'	Soil	05/30/07 11:00:00	☐			A			A						
0705783-043	SB-21-17'	Soil	05/30/07	☐			A			A						
0705783-044	SB-10-W	Water	05/30/07	☐		C		A								
0705783-044	SB-11-W	Water	05/30/07	☐							B					
0705783-045	SB-11-W	Water	05/30/07	☐		C		A	B		B					
0705783-046	SB-12-W	Water	05/30/07	☐		C		A			B					
0705783-047	SB-13-W	Water	05/30/07	☐		C		A			B					
0705783-048	SB-14-W	Water	05/30/07	☐		C		A			B					

Test Legend:

1	9-OXYS_S	2	9-OXYS_W	3	G-MBTEX_S	4	G-MBTEX_W	5	PREDF REPORT
6	TPH(D)_S	7	TPH(D)_W	8		9		10	
11		12							

Prepared by: Sheli Cryderman

Comments: Acetates on hold in extraction fridge

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0705783 **ClientID: AEL**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Adrian Angel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
Email: aangel@aeiconsultants.com
TEL: (925) 283-600 FAX: (925) 283-612
ProjectNo: #270308; Allen
PO:

Bill t
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received **05/31/2007**
Date Printed: **06/05/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0705783-049	SB-15-W	Water	05/30/07	☐		C		A			B					
0705783-050	SB-16-W	Water	05/30/07	☐		C		A			B					
0705783-051	SB-17-W	Water	05/30/07	☐		C		A			B					
0705783-052	SB-18-W	Water	05/30/07	☐		C		A			B					
0705783-053	SB-19-W	Water	05/30/07	☐		C		A			B					
0705783-054	SB-20-W	Water	05/30/07	☐		C		A			B					
0705783-055	SB-21-W	Water	05/30/07	☐		C		A			B					

Test Legend:

1	9-OXYS_S	2	9-OXYS_W	3	G-MBTEX_S	4	G-MBTEX_W	5	PREDF REPORT
6	TPH(D)_S	7	TPH(D)_W	8		9		10	
11		12							

Prepared by: Sheli Cryderman

Comments: Acetates on hold in extraction fridge

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

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **05/31/07 5:50:09 PM**

Project Name: **#270308; Allen**

Checklist completed and reviewed by: SC

WorkOrder N°: **0705783** Matrix Soil/Water

Carrier: Courier

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 13.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07-06/06/07
	Client P.O.:	Date Analyzed 06/02/07-06/06/07

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0705783

Lab ID	0705783-009A	0705783-028A	0705783-033A	0705783-044C	Reporting Limit for DF =1	
Client ID	SB-12-12'	SB-17-12'	SB-18-12'	SB-10-W		
Matrix	S	S	S	W		
DF	1	1	2	1	S	W
Compound	**Concentration**				mg/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND<0.010	ND	0.005	0.5
t-Butyl alcohol (TBA)	ND	ND	ND<0.10	ND	0.05	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND<0.010	ND	0.005	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND<0.010	ND	0.005	0.5
Diisopropyl ether (DIPE)	ND	ND	ND<0.010	ND	0.005	0.5
Ethanol	ND	ND	ND<0.50	ND	0.25	50
Ethyl tert-butyl ether (ETBE)	ND	ND	ND<0.010	ND	0.005	0.5
Methanol	ND	ND	ND<5.0	ND	2.5	500
Methyl-t-butyl ether (MTBE)	ND	ND	ND<0.010	ND	0.005	0.5
Surrogate Recoveries (%)						
%SS1:	88	89	84	100		
Comments			j			

* 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 coelutes with another peak; &) low surrogate due to matrix interference.

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

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07-06/06/07
	Client P.O.:	Date Analyzed 06/02/07-06/06/07

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0705783

Lab ID	0705783-045C	0705783-046C	0705783-047C	0705783-048C	Reporting Limit for DF =1	
Client ID	SB-11-W	SB-12-W	SB-13-W	SB-14-W		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				mg/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.005	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.005	0.5
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	0.5
Ethanol	ND	ND	ND	ND	0.25	50
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	0.5
Methanol	ND	ND	ND	ND	2.5	500
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	0.005	0.5
Surrogate Recoveries (%)						
%SS1:	101	101	117	101		
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 coelutes with another peak; &) low surrogate due to matrix interference.

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

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07-06/06/07
	Client P.O.:	Date Analyzed 06/02/07-06/06/07

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0705783

Lab ID	0705783-049C	0705783-050C	0705783-051C	0705783-052C	Reporting Limit for DF =1	
Client ID	SB-15-W	SB-16-W	SB-17-W	SB-18-W		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				mg/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	0.005	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	0.05	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.005	0.5
1,2-Dichloroethane (1,2-DCA)	4.5	2.7	0.52	1.2	0.005	0.5
Diisopropyl ether (DIPE)	ND	ND	ND	ND	0.005	0.5
Ethanol	ND	ND	ND	ND	0.25	50
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	0.005	0.5
Methanol	ND	ND	ND	ND	2.5	500
Methyl-t-butyl ether (MTBE)	ND	ND	ND	19	0.005	0.5
Surrogate Recoveries (%)						
%SS1:	100	101	101	100		
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 coelutes with another peak; &) low surrogate due to matrix interference.

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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"When Quality Counts"

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Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07-06/06/07
	Client P.O.:	Date Analyzed 06/02/07-06/06/07

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0705783

Lab ID	0705783-053C	0705783-054C	0705783-055C		Reporting Limit for DF =1	
Client ID	SB-19-W	SB-20-W	SB-21-W			
Matrix	W	W	W			
DF	1	1	1		S	W
Compound	**Concentration**				mg/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND		0.005	0.5
t-Butyl alcohol (TBA)	ND	ND	ND		0.05	5.0
1,2-Dibromoethane (EDB)	ND	ND	ND		0.005	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND		0.005	0.5
Diisopropyl ether (DIPE)	ND	ND	ND		0.005	0.5
Ethanol	ND	ND	ND		0.25	50
Ethyl tert-butyl ether (ETBE)	ND	ND	ND		0.005	0.5
Methanol	ND	ND	ND		2.5	500
Methyl-t-butyl ether (MTBE)	ND	ND	ND		0.005	0.5
Surrogate Recoveries (%)						
%SS1:	101	102	110			
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 coelutes with another peak; &) low surrogate due to matrix interference.

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

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07-06/06/07
	Client P.O.:	Date Analyzed 06/01/07-06/06/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SB-10-8'	S	ND	ND	ND	ND	ND	ND	1	86
003A	SB-10-16'	S	ND	ND	ND	ND	ND	ND	1	87
005A	SB-11-11'	S	ND	ND	ND	ND	ND	ND	1	87
007A	SB-11-16'	S	ND	ND	ND	ND	ND	ND	1	90
008A	SB-12-7'	S	ND	ND	ND	ND	ND	ND	1	84
009A	SB-12-12'	S	ND	ND	ND	ND	ND	ND	1	87
011A	SB-13-8'	S	ND	ND	ND	ND	ND	ND	1	80
012A	SB-13-14'	S	ND	ND	ND	ND	ND	ND	1	86
015A	SB-14-8'	S	ND	ND	ND	ND	ND	ND	1	89
016A	SB-14-12'	S	ND	ND	ND	ND	ND	ND	1	89
019A	SB-15-8'	S	ND	ND	ND	ND	ND	ND	1	75
020A	SB-15-12'	S	ND	ND	ND	ND	ND	ND	1	97
023A	SB-16-8'	S	ND	ND	ND	ND	ND	ND	1	88
024A	SB-16-12'	S	ND	ND	ND	ND	ND	ND	1	87
027A	SB-17-9'	S	ND	ND	ND	ND	ND	ND	1	89
028A	SB-17-12'	S	ND	ND	ND	ND	ND	ND	1	95
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07-06/06/07
	Client P.O.:	Date Analyzed 06/01/07-06/06/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
032A	SB-18-8'	S	ND	ND	ND	ND	ND	ND	1	88
033A	SB-18-12'	S	30,b,m	ND<0.17	0.049	0.22	0.36	1.8	3.3	107
036A	SB-19-8'	S	ND	ND	ND	ND	ND	ND	1	96
037A	SB-19-12'	S	ND	ND	ND	ND	ND	ND	1	85
039A	SB-20-8'	S	ND	ND	ND	ND	ND	ND	1	89
040A	SB-20-12'	S	ND	ND	ND	ND	ND	ND	1	84
042A	SB-21-12'	S	ND	ND	ND	ND	ND	ND	1	90
043A	SB-21-17'	S	ND	ND	ND	ND	ND	ND	1	94
044A	SB-10-W	W	ND	ND	ND	ND	ND	ND	1	100
045A	SB-11-W	W	ND	ND	ND	ND	ND	ND	1	111
046A	SB-12-W	W	ND	ND	ND	ND	ND	ND	1	99
047A	SB-13-W	W	ND	ND	ND	ND	ND	ND	1	99
048A	SB-14-W	W	ND	ND	ND	ND	ND	ND	1	104
049A	SB-15-W	W	ND	ND	ND	ND	ND	ND	1	108
050A	SB-16-W	W	ND	ND	ND	ND	ND	ND	1	105
051A	SB-17-W	W	ND	ND	ND	ND	ND	ND	1	109
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07-06/06/07
	Client P.O.:	Date Analyzed 06/01/07-06/06/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
052A	SB-18-W	W	330,a	14	2.1	5.4	8.9	31	1	114
053A	SB-19-W	W	ND	ND	ND	ND	ND	ND	1	112
054A	SB-20-W	W	ND	ND	ND	ND	ND	ND	1	114
055A	SB-21-W	W	ND	ND	ND	ND	ND	ND	1	110

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07
	Client P.O.:	Date Analyzed 06/01/07-06/06/07

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method SW3510C/SW3550C Analytical methods SW8015C Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0705783-001A	SB-10-8'	S	ND	1	113
0705783-003A	SB-10-16'	S	ND	1	112
0705783-005A	SB-11-11'	S	ND	1	114
0705783-007A	SB-11-16'	S	ND	1	118
0705783-008A	SB-12-7'	S	ND	1	113
0705783-009A	SB-12-12'	S	ND	1	115
0705783-011A	SB-13-8'	S	ND	1	115
0705783-012A	SB-13-14'	S	ND	1	115
0705783-015A	SB-14-8'	S	ND	1	115
0705783-016A	SB-14-12'	S	ND	1	117
0705783-019A	SB-15-8'	S	ND	1	116
0705783-020A	SB-15-12'	S	ND	1	116
0705783-023A	SB-16-8'	S	ND	1	93
0705783-024A	SB-16-12'	S	ND	1	118
0705783-027A	SB-17-9'	S	ND	1	116
0705783-028A	SB-17-12'	S	2.7,a	1	116

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07
	Client P.O.:	Date Analyzed 06/01/07-06/06/07

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method SW3510C/SW3550C Analytical methods SW8015C Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0705783-032A	SB-18-8'	S	ND	1	115
0705783-033A	SB-18-12'	S	10,d	1	115
0705783-036A	SB-19-8'	S	ND	1	115
0705783-037A	SB-19-12'	S	ND	1	116
0705783-039A	SB-20-8'	S	ND	1	117
0705783-040A	SB-20-12'	S	ND	1	117
0705783-042A	SB-21-12'	S	ND	1	119
0705783-043A	SB-21-17'	S	ND	1	89
0705783-044B	SB-11-W	W	71,f,b	1	97
0705783-045B	SB-11-W	W	ND	1	96
0705783-046B	SB-12-W	W	80,b	1	89
0705783-047B	SB-13-W	W	130,g,b,f	1	89
0705783-048B	SB-14-W	W	ND	1	107
0705783-049B	SB-15-W	W	ND	1	104
0705783-050B	SB-16-W	W	73,b	1	90
0705783-051B	SB-17-W	W	160,a	1	105

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.

DHS ELAP Certification N° 1644

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 05/31/07
	Client P.O.:	Date Analyzed 06/01/07-06/06/07

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method SW3510C/SW3550C Analytical methods SW8015C Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0705783-052B	SB-18-W	W	64,d	1	116
0705783-053B	SB-19-W	W	59,f	1	94
0705783-054B	SB-20-W	W	ND	1	119
0705783-055B	SB-21-W	W	ND	1	119

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0705783

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 28387	Spiked Sample ID: 0705783-001A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	102	104	2.22	89.5	92.3	3.10	70 - 130	30	70 - 130	30
MTBE	ND	0.10	91.6	92.3	0.825	83.9	87.5	4.23	70 - 130	30	70 - 130	30
Benzene	ND	0.10	97.2	96.9	0.324	96.9	96.6	0.362	70 - 130	30	70 - 130	30
Toluene	ND	0.10	85.7	85.5	0.183	88.4	90	1.81	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	104	100	4.13	103	107	3.75	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	107	103	3.17	95.3	96.3	1.04	70 - 130	30	70 - 130	30
%SS:	86	0.10	119	118	0.594	90	92	2.13	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 28387 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-001A	05/30/07 1:10 PM	05/31/07	06/01/07 9:06 PM	0705783-003A	05/30/07	05/31/07	06/01/07 6:05 PM
0705783-005A	05/30/07 12:12 PM	05/31/07	06/01/07 7:06 PM	0705783-007A	05/30/07 12:59 PM	05/31/07	06/01/07 11:05 PM
0705783-008A	05/30/07 10:30 AM	05/31/07	06/01/07 5:35 PM	0705783-009A	05/30/07 10:50 AM	05/31/07	06/02/07 12:05 AM
0705783-011A	05/29/07 2:55 PM	05/31/07	06/01/07 10:45 PM	0705783-012A	05/29/07 3:00 PM	05/31/07	06/01/07 9:36 PM
0705783-015A	05/29/07 9:35 AM	05/31/07	06/01/07 6:36 PM	0705783-016A	05/29/07 9:45 AM	05/31/07	06/01/07 10:36 PM
0705783-019A	05/29/07 12:30 PM	05/31/07	06/02/07 4:11 PM	0705783-020A	05/29/07 12:40 PM	05/31/07	06/06/07 1:44 AM
0705783-023A	05/29/07 1:10 AM	05/31/07	06/01/07 11:35 PM	0705783-024A	05/29/07 1:20 PM	05/31/07	06/02/07 12:34 AM
0705783-027A	05/29/07 10:53 AM	05/31/07	06/01/07 7:36 PM	0705783-028A	05/29/07 11:00 AM	05/31/07	06/04/07 6:06 PM
0705783-032A	05/29/07 2:00 PM	05/31/07	06/01/07 8:36 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.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0705783

EPA Method SW8260B	Extraction SW5030B				BatchID: 28391				Spiked Sample ID: 0705584-021A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	87.1	85	2.50	84.5	87	2.98	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	87.6	91.7	4.56	89	88.9	0.163	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	90.6	86.4	4.82	84	88.6	5.30	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	93.6	94.9	1.35	91.9	91.1	0.893	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	94.3	90.4	4.28	87.4	93.6	6.78	70 - 130	30	70 - 130	30
Ethanol	ND	2.5	109	109	0	107	103	3.79	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	88.3	86.5	2.00	84	88	4.62	70 - 130	30	70 - 130	30
Methanol	ND	12.5	102	101	0.485	102	102	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	91.7	89.8	2.16	88.5	90.5	2.22	70 - 130	30	70 - 130	30
%SS1:	95	0.050	98	100	2.16	101	101	0	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 28391 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-009A	05/30/07 10:50 AM	05/31/07	06/06/07 6:18 AM	0705783-028A	05/29/07 11:00 AM	05/31/07	06/06/07 7:01 AM
0705783-033A	05/29/07 2:10 PM	05/31/07	06/06/07 7:45 AM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0705783

EPA Method SW8260B **Extraction SW5030B** **BatchID: 28410** **Spiked Sample ID: 0705772-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	99.6	99.5	0.147	96.3	97.1	0.814	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	91.1	91.8	0.691	89.9	84.6	6.13	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	92.4	93.4	1.05	102	102	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	104	103	1.12	101	102	0.793	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	108	108	0	104	105	0.688	70 - 130	30	70 - 130	30
Ethanol	ND	500	105	104	1.14	110	103	6.32	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	103	104	1.01	100	102	1.34	70 - 130	30	70 - 130	30
Methanol	ND	2500	102	101	1.01	101	101	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	108	108	0	104	106	2.12	70 - 130	30	70 - 130	30
%SS1:	101	10	117	116	0.850	105	105	0	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 28410 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-044C	05/30/07	06/02/07	06/02/07 8:22 AM	0705783-045C	05/30/07	06/02/07	06/02/07 9:06 AM
0705783-046C	05/30/07	06/02/07	06/02/07 9:50 AM	0705783-047C	05/30/07	06/02/07	06/02/07 12:01 PM
0705783-048C	05/30/07	06/02/07	06/02/07 12:45 PM	0705783-049C	05/30/07	06/02/07	06/02/07 1:29 PM
0705783-050C	05/30/07	06/02/07	06/02/07 2:13 PM	0705783-051C	05/30/07	06/02/07	06/02/07 2:57 PM
0705783-052C	05/30/07	06/02/07	06/02/07 3:41 PM	0705783-053C	05/30/07	06/02/07	06/02/07 4:25 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.

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0705783

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 28426	Spiked Sample ID: 0705783-043A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	108	107	0.712	106	103	2.25	70 - 130	30	70 - 130	30
MTBE	ND	0.10	91.6	91.7	0.0544	96.8	95.9	0.906	70 - 130	30	70 - 130	30
Benzene	ND	0.10	94.5	94.5	0	92.9	98.2	5.54	70 - 130	30	70 - 130	30
Toluene	ND	0.10	82.3	82.7	0.486	83.5	88.8	6.07	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	101	90.1	11.0	98.8	102	2.84	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	107	103	3.17	100	107	6.45	70 - 130	30	70 - 130	30
%SS:	94	0.10	112	113	0.594	107	117	8.99	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 28426 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-033A	05/29/07 2:10 PM	05/31/07	06/04/07 6:36 PM	0705783-036A	05/29/07 10:18 AM	05/31/07	06/02/07 3:30 AM
0705783-037A	05/29/07 10:30 AM	05/31/07	06/01/07 10:12 PM	0705783-039A	05/29/07	05/31/07	06/02/07 1:33 AM
0705783-040A	05/29/07	05/31/07	06/01/07 9:06 PM	0705783-042A	05/30/07 11:00 AM	05/31/07	06/02/07 3:59 AM
0705783-043A	05/30/07	05/31/07	06/02/07 2:02 AM				

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

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

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

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0705783

EPA Method SW8260B	Extraction SW5030B	BatchID: 28429	Spiked Sample ID: 0705790-007B

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	107	106	1.10	108	107	1.44	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	85.8	86	0.294	91.4	88.3	3.47	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	114	112	1.36	108	109	0.872	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	110	108	1.72	109	108	0.240	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	116	116	0	118	117	0.970	70 - 130	30	70 - 130	30
Ethanol	ND	500	104	108	3.79	104	103	0.439	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	114	112	1.58	113	113	0	70 - 130	30	70 - 130	30
Methanol	ND	2500	101	103	1.45	101	102	0.743	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	116	113	2.39	117	116	0.395	70 - 130	30	70 - 130	30
%SS1:	112	10	111	109	2.00	115	117	2.18	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 28429 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-054C	05/30/07	06/02/07	06/02/07 5:09 PM	0705783-055C	05/30/07	06/02/07	06/02/07 7:23 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.

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

McCampbell Analytical, Inc.
"When Quality Counts"

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0705783

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 28413	Spiked Sample ID: 0705783-051A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	96.5	92.3	4.43	85.9	92.5	7.31	70 - 130	30	70 - 130	30
MTBE	ND	10	91.3	94.9	3.81	76.5	86.5	12.3	70 - 130	30	70 - 130	30
Benzene	ND	10	95.5	93.8	1.81	82.1	93.4	13.0	70 - 130	30	70 - 130	30
Toluene	ND	10	95.6	93	2.78	80.6	92.5	13.8	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	94.9	92.8	2.18	83.9	95.5	13.0	70 - 130	30	70 - 130	30
Xylenes	ND	30	90.3	86.3	4.53	95	107	11.6	70 - 130	30	70 - 130	30
%SS:	109	10	104	105	0.654	93	95	2.23	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 28413 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-044A	05/30/07	06/02/07	06/02/07 6:43 PM	0705783-045A	05/30/07	06/02/07	06/02/07 7:13 PM
0705783-046A	05/30/07	06/02/07	06/02/07 8:43 PM	0705783-047A	05/30/07	06/02/07	06/02/07 9:13 PM
0705783-048A	05/30/07	06/02/07	06/02/07 9:43 PM	0705783-049A	05/30/07	06/02/07	06/02/07 10:13 PM
0705783-050A	05/30/07	06/02/07	06/02/07 10:43 PM	0705783-051A	05/30/07	06/03/07	06/03/07 1:41 AM
0705783-052A	05/30/07	06/03/07	06/03/07 2:11 AM	0705783-053A	05/30/07	06/03/07	06/03/07 3:11 AM
0705783-054A	05/30/07	06/03/07	06/03/07 3:40 AM	0705783-055A	05/30/07	06/03/07	06/03/07 4:10 AM

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

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

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

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

DHS ELAP Certification N° 1644

QA/QC Officer

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"When Quality Counts"

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0705783

EPA Method SW8015C	Extraction SW3510C	BatchID: 28350	Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	104	105	0.994	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	89	90	1.37	N/A	N/A	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 28350 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-044B	05/30/07	05/31/07	06/06/07 6:03 PM	0705783-045B	05/30/07	05/31/07	06/06/07 9:10 PM
0705783-046B	05/30/07	05/31/07	06/04/07 4:47 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.

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

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0705783

EPA Method SW8015C	Extraction SW3550C	BatchID: 28415	Spiked Sample ID: 0705774-001A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	11	20	NR	NR	NR	104	106	2.64	70 - 130	30	70 - 130	30
%SS:	92	50	92	92	0	115	90	24.3	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 28415 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-001A	05/30/07 1:10 PM	05/31/07	06/01/07 1:59 PM	0705783-003A	05/30/07	05/31/07	06/01/07 3:07 PM
0705783-005A	05/30/07 12:12 PM	05/31/07	06/01/07 4:15 PM	0705783-007A	05/30/07 12:59 PM	05/31/07	06/01/07 5:34 PM
0705783-008A	05/30/07 10:30 AM	05/31/07	06/01/07 6:42 PM	0705783-009A	05/30/07 10:50 AM	05/31/07	06/01/07 7:51 PM
0705783-011A	05/29/07 2:55 PM	05/31/07	06/01/07 8:59 PM	0705783-012A	05/29/07 3:00 PM	05/31/07	06/01/07 10:07 PM
0705783-015A	05/29/07 9:35 AM	05/31/07	06/02/07 1:32 AM	0705783-016A	05/29/07 9:45 AM	05/31/07	06/02/07 2:41 AM
0705783-019A	05/29/07 12:30 PM	05/31/07	06/02/07 3:49 AM	0705783-020A	05/29/07 12:40 PM	05/31/07	06/02/07 9:31 AM
0705783-023A	05/29/07 1:10 AM	05/31/07	06/01/07 10:07 PM	0705783-024A	05/29/07 1:20 PM	05/31/07	06/02/07 8:22 AM
0705783-027A	05/29/07 10:53 AM	05/31/07	06/02/07 7:14 AM	0705783-028A	05/29/07 11:00 AM	05/31/07	06/02/07 4:57 AM
0705783-032A	05/29/07 2:00 PM	05/31/07	06/02/07 12:56 PM	0705783-033A	05/29/07 2:10 PM	05/31/07	06/02/07 11:47 AM
0705783-036A	05/29/07 10:18 AM	05/31/07	06/02/07 10:39 AM				

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

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

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

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0705783

EPA Method SW8015C	Extraction SW3550C	BatchID: 28427	Spiked Sample ID: 0705783-043A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	ND	20	111	106	4.73	105	105	0	70 - 130	30	70 - 130	30
%SS:	89	50	119	99	18.7	98	97	0.872	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 28427 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-037A	05/29/07 10:30 AM	05/31/07	06/02/07 6:06 AM	0705783-039A	05/29/07	05/31/07	06/01/07 6:45 PM
0705783-040A	05/29/07	05/31/07	06/01/07 7:54 PM	0705783-042A	05/30/07 11:00 AM	05/31/07	06/01/07 9:03 PM
0705783-043A	05/30/07	05/31/07	06/01/07 4:33 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.

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

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0705783

EPA Method SW8015C	Extraction SW3510C	BatchID: 28428	Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	105	103	1.68	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	99	94	5.20	N/A	N/A	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 28428 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-047B	05/30/07	05/31/07	06/04/07 5:54 PM	0705783-048B	05/30/07	05/31/07	06/05/07 2:43 AM
0705783-049B	05/30/07	05/31/07	06/05/07 1:34 AM	0705783-050B	05/30/07	05/31/07	06/01/07 10:52 PM
0705783-051B	05/30/07	05/31/07	06/05/07 3:51 AM	0705783-052B	05/30/07	05/31/07	06/02/07 2:04 PM
0705783-053B	05/30/07	05/31/07	06/06/07 10:17 PM	0705783-054B	05/30/07	05/31/07	06/01/07 11:19 PM
0705783-055B	05/30/07	05/31/07	06/01/07 10:11 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.

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

DHS ELAP Certification N° 1644

QA/QC Officer

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AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #270308; Allen	Date Sampled: 05/29/07
		Date Received: 05/31/07
	Client Contact: Adrian Angel	Date Reported: 06/07/07
	Client P.O.:	Date Completed: 06/15/07

WorkOrder: 0705783

June 15, 2007

Dear Adrian:

Enclosed are:

1). the results of **11** analyzed samples from your **#270308; Allen 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

0705783 10-21 AEL 1/4

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No **Email PDF Report:** YES

Report To: Adrian Angel	**Bill To:** Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	**Fax:** (925) 944-2895
Project #: 270308	**Project Name:** Allen
Project Location: 671 4th Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260 - 90xy's	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: Pb added 6/8/07 5day per	Comments
SB-10-8'		5/30/07	1:10P	1	A		X				X				X	X															
SB-10-13'			1:15P		c																									X	
SB-10-16'			—		e										X	X															
SB-11-7'			12:10P		t																										
SB-11-11'			12:17P		g										X	X															
SB-11-14'			12:48P		t																										
SB-11-16'			12:54P		e										X	X														X	
SB-12-7'			10:30A												X	X															
SB-12-12'			10:50A												X	X							X							X	
SB-13-5'		5/29/07	2:45P																												
SB-13-8'			2:55P												X	X															
SB-13-14'			3:00P												X	X														X	
SB-13-19'			3:15P																												
SB-14-5'			9:30A	↓	↓	↓					↓																				

Relinquished By:	Date:	Time:	Received By:
	5/30/07	6:00P	Enviro-Tech S.R.
Enviro-Tech S.R.	5/30	1951	
	5/30	2010	

OFF Hold 5/31/07

ICE/t° 13.6 PRESERVATION

VOAS	O&G	METALS	OTHER

GOOD CONDITION ✓ APPROPRIATE

HEAD SPACE ABSENT ✓ CONTAINERS ✓

DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No **Email PDF Report: YES**

Report To: Adrian Angel	**Bill To:** Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	**Fax:** (925) 944-2895
Project #: 270308	**Project Name:** Allen
Project Location: 671 4th Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260 – 9 Oxy's	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: Pb added 6/6/17 Salary per email	Comments
SB-14-8'		5/29/07	9:35A	1	A		X				X				X	X															
SB-14-12'			9:45A		C										X	X														X	
SB-14-16'			—		e																										
SB-15-5'			12:35P		t																										
SB-15-8'			12:30P		a										X	X															
SB-15-12'			12:40P		t										X	X														X	
SB-15-16'			1:00P		e																										
SB-16-5'			—		—																										
SB-16-8'			1:10P												X	X															
SB-16-12'			1:20P												X	X														X	
SB-16-16'			1:35P																												
SB-17-5'			10:50A																												
SB-17-9'			10:53A				↓								X	X															
SB-17-12'			11:00A	↓	↓						↓				X	X							X							X	

Relinquished By:	**Date:** 5/30/17	**Time:** 6:00P	**Received By:** Enviro-Tech S.R.
Relinquished By: Enviro-Tech S.R.	**Date:** 5/30	**Time:** 1451	**Received By:**
Relinquished By:	**Date:** 5/30	**Time:** 2010	**Received By:**

ICE/t° 13.6 GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ DECHLORINATED IN LAB _____

	VOAS	O&G	METALS	OTHER
PRESERVATION APPROPRIATE				
CONTAINERS ✓				

PERSERVED IN LAB _____

3/4

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No Email PDF Report: YES

Report To: Adrian Angel	Bill To: Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	Fax: (925) 944-2895
Project #: 270308	Project Name: Allen
Project Location: 671 4th Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260 – 90x4/5	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: PB added 6/8/07 Stacy	Comments
SB-17-16'		5/29/07	11:08A	1	A		X				X				X	X							X						X		added 6/8/07
SB-17-20'			11:01A		C																										
SB-18-5'			1:50P		e																										
SB-18-8'			2:00P		t										X	X															
SB-18-12'			2:10P		a										X	X							X								
SB-18-16'			2:20P		t										X	X													X		added 6/8/07
SB-18-20'			2:14P		e																										
SB-19-8'			10:18A												X	X															
SB-19-12'			10:30A												X	X													X		
SB-20-5'			9:40A																												
SB-20-8'			—												X	X															
SB-20-12'			—												X	X													X		
SB-20-16'			10:10A																												
SB-21-12'		5/30/07	11:00A												X	X															

Relinquished By:	Date: 5/30/07	Time: 6:00P	Received By: Enviro-Tech S.R.
Relinquished By: Enviro-Tech S.R.	Date: 5/30	Time: 1451	Received By:
Relinquished By:	Date: 5/30	Time: 20:10	Received By:

ICE/t° 13.6 VOAS | O&G | METALS | OTHER
GOOD CONDITION ✓ PRESERVATION
HEAD SPACE ABSENT ✓ APPROPRIATE
DECHLORINATED IN LAB ____ CONTAINERS ✓
PERSERVED IN LAB ____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 070578 A **ClientID: AEL**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Adrian Angel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Email: aangel@aeiconsultants.com
TEL: (925) 283-600 FAX: (925) 944-289
ProjectNo: #270308; Allen
PO:

Bill t
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TA **5 days**
Date Receive **05/31/2007**
Date Add-On: **06/08/2007**
Date Printed: **06/11/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0705783-002	SB-10-13'	Soil	5/30/07 1:15:00	☐		A										
0705783-007	SB-11-16'	Soil	5/30/07 12:59:00	☐		A										
0705783-009	SB-12-12'	Soil	5/30/07 10:50:00	☐		A										
0705783-012	SB-13-14'	Soil	5/29/07 3:00:00	☐		A										
0705783-016	SB-14-12'	Soil	5/29/07 9:45:00	☐		A										
0705783-020	SB-15-12'	Soil	5/29/07 12:40:00	☐		A										
0705783-024	SB-16-12'	Soil	5/29/07 1:20:00	☐		A										
0705783-028	SB-17-12'	Soil	5/29/07 11:00:00	☐		A										
0705783-034	SB-18-16'	Soil	5/29/07 2:20:00	☐	A	A	A									
0705783-037	SB-19-12'	Soil	5/29/07 10:30:00	☐		A										
0705783-040	SB-20-12'	Soil	5/29/07	☐		A										

Test Legend:

1	G-MBTEX_S	2	PB_S	3	TPH(D)_S	4		5	
6		7		8		9		10	
11		12							

Prepared by: Sheli Cryderman

Comments: Pb, g-mbtex, and diesel added 6/8/07 5 day per email

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

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 06/08/07
	Client P.O.:	Date Analyzed 06/12/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
034A	SB-18-16'	S	68,b,m	ND<0.50	ND<0.050	0.25	0.32	2.0	10	95

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07-05/30/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 06/08/07
	Client P.O.:	Date Analyzed 06/12/07

Lead by ICP*

Extraction method SW3050B Analytical methods 6010C Work Order: 0705783

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0705783-002A	SB-10-13'	S	TTLC	ND	1	99
0705783-007A	SB-11-16'	S	TTLC	ND	1	98
0705783-009A	SB-12-12'	S	TTLC	ND	1	97
0705783-012A	SB-13-14'	S	TTLC	ND	1	97
0705783-016A	SB-14-12'	S	TTLC	ND	1	103
0705783-020A	SB-15-12'	S	TTLC	ND	1	96
0705783-024A	SB-16-12'	S	TTLC	ND	1	98
0705783-028A	SB-17-12'	S	TTLC	ND	1	94
0705783-034A	SB-18-16'	S	TTLC	ND	1	96
0705783-037A	SB-19-12'	S	TTLC	ND	1	93
0705783-040A	SB-20-12'	S	TTLC	ND	1	97

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLC	NA	µg/L
	S	TTLC	5.0	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 05/29/07
2500 Camino Diablo, Ste. #200		Date Received: 05/31/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted 06/08/07
	Client P.O.:	Date Analyzed 06/15/07

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0705783

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0705783-034A	SB-18-16'	S	11,d	1	89

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0705783

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 28626	Spiked Sample ID: 0706277-001A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	105	100	4.44	104	103	1.10	70 - 130	30	70 - 130	30
MTBE	ND	0.10	105	112	6.30	114	107	6.38	70 - 130	30	70 - 130	30
Benzene	ND	0.10	96.1	97.1	1.07	109	103	5.74	70 - 130	30	70 - 130	30
Toluene	ND	0.10	85.4	82.8	2.95	98.9	95	3.99	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	106	96.6	9.31	112	112	0	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	107	93	13.7	110	113	2.99	70 - 130	30	70 - 130	30
%SS:	84	0.10	118	111	5.60	118	122	3.43	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 28626 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-034A	05/29/07 2:20 PM	06/08/07	06/12/07 2:17 AM				

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

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

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

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0705783

EPA Method 6010C			Extraction SW3050B			BatchID: 28633			Spiked Sample ID 0705783-040A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	ND	50	100	100	0	10	104	97.9	5.58	75 - 125	20	80 - 120	20
%SS:	97	250	98	96	2.29	250	101	99	1.61	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 28633 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705783-002A	05/30/07 1:15 PM	06/08/07	06/12/07 8:55 PM	0705783-007A	05/30/07 12:59 PM	06/08/07	06/12/07 8:58 PM
0705783-009A	05/30/07 10:50 AM	06/08/07	06/12/07 9:01 PM	0705783-012A	05/29/07 3:00 PM	06/08/07	06/12/07 9:03 PM
0705783-016A	05/29/07 9:45 AM	06/08/07	06/12/07 9:05 PM	0705783-020A	05/29/07 12:40 PM	06/08/07	06/12/07 8:34 PM
0705783-024A	05/29/07 1:20 PM	06/08/07	06/12/07 8:37 PM	0705783-028A	05/29/07 11:00 AM	06/08/07	06/12/07 8:39 PM
0705783-034A	05/29/07 2:20 PM	06/08/07	06/12/07 8:42 PM	0705783-037A	05/29/07 10:30 AM	06/08/07	06/12/07 8:44 PM
0705783-040A	05/29/07	06/08/07	06/12/07 11:18 AM				

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

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

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

N/A = not applicable to this method.

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

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Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #270308; Allen	Date Sampled: 08/10/07
		Date Received: 08/10/07
	Client Contact: Adrian Angel	Date Reported: 08/17/07
	Client P.O.:	Date Completed: 08/17/07

WorkOrder: 0708339

August 17, 2007

Dear Adrian:

Enclosed are:

1). the results of **2** analyzed samples from your **#270308; Allen 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

ael 0708334

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☐ Yes ☐ No Email PDF Report: YES

Report To: Adrian Angel Bill To: Same
Company: AEI Consultants
2500 Camino Diablo, Suite 200
Walnut Creek, CA 94597 E-Mail: aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132 Fax: (925) 944-2895
Project #: 270308 Project Name: Allen
Project Location: 325 Martin Luther King Jr, Oakland, CA
Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
MW-1-5'		8/10/07	8:30A	1	B		X				X			
MW-1-10'		"	8:45A	"	"		"				"			
MW-1-15			9:00A											
MW-1-18'			9:15A											
MW-2-5'		"	10:05A											
MW-2-10'			10:10A											
MW-2-15			10:20A											
MW-3-5'			4:30A											
MW-3-10'			4:45A											
MW-3-15'			12:30P											
~~MW-3~~														

Analysis Request	Other	Comments
BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH multirange (8015)	
TPH as Diesel (8015)	MBTEX (8021)	
Total Petroleum Oil & Grease (5520 E&F/B&F)		
Total Petroleum Hydrocarbons (418.1)		
HVOCs EPA 8260 (8010 list)		
BTEX ONLY (EPA 602 / 8020)		
Pesticides EPA 608 / 8080		
PCBs EPA 608 / 8080		
VOCs EPA 624 / 8260		
EPA 625 / 8270		
PAH's / PNA's by EPA 625 / 8270 / 8310		
CAM-17 Metals		
LUFT 5 Metals		
Lead (7240/7421/239.2/6010)		
RCI		
	X	
	X	

Relinquished By:	Date:	Time:	Received By:
[illegible]	8/10/07	3:17P	Mike Vall
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

	VOAS	O&G	METALS	OTHER
ICE/t° 23°				
GOOD CONDITION ✓	PRESERVATION			
HEAD SPACE ABSENT	APPROPRIATE			
DECHLORINATED IN LAB	CONTAINERS ✓			
	PERSERVED IN LAB			

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0708339 **ClientID: AEL**

☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Adrian Angel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Email: aangel@aeiconsultants.com
TEL: (925) 283-600 FAX: (925) 283-612
ProjectNo: #270308; Allen
PO:

Bill t
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received **08/10/2007**
Date Printed: **08/13/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0708339-008	MW-3-5'	Soil	8/10/2007	☐	A	A	A									
0708339-009	MW-3-10'	Soil	8/10/2007	☐	A		A									

Test Legend:

1	G-MBTEX_S	2	PREDF REPORT	3	TPH(DMO)_S	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 008A, 009A contain testgroup.

Prepared by: Elisa Venegas

Comments:

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

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **8/10/2007 3:17:00 PM**

Project Name: **#270308; Allen**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0708339** Matrix

Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 08/10/07
2500 Camino Diablo, Ste. #200		Date Received: 08/10/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 08/13/07
	Client P.O.:	Date Analyzed 08/14/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0708339

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
008A	MW-3-5'	S	ND	ND	ND	ND	ND	ND	1	77
009A	MW-3-10'	S	1500,b,m	ND<10	6.0	42	12	120	200	---#

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 08/10/07
2500 Camino Diablo, Ste. #200		Date Received: 08/10/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 08/13/07
	Client P.O.:	Date Analyzed 08/16/07-08/17/07

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0708339

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0708339-008A	MW-3-5'	S	ND	ND	1	98
0708339-009A	MW-3-10'	S	240,d	6.3	1	122

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) mineral oil; p) see attached narrative.

DHS ELAP Certification N° 1644

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0708339

EPA Method SW8021B/8015Cm Extraction SW5030B BatchID: 29888 Spiked Sample ID: 0708263-008A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	97.6	96.6	1.05	97.9	97.2	0.696	70 - 130	30	70 - 130	30
MTBE	ND	0.10	85.3	103	18.4	88	87.6	0.472	70 - 130	30	70 - 130	30
Benzene	ND	0.10	91.2	94.6	3.75	97.1	95.8	1.39	70 - 130	30	70 - 130	30
Toluene	ND	0.10	80.5	81.6	1.21	112	111	1.11	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	94	94.9	0.994	106	104	1.65	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	91.7	91	0.730	117	113	2.90	70 - 130	30	70 - 130	30
%SS:	85	0.10	75	72	4.54	106	104	2.22	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 29888 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708339-008A	08/10/07 11:30 AM	08/13/07	08/14/07 12:06 AM	0708339-009A	08/10/07 11:45 AM	08/13/07	08/14/07 8:06 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 = 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.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0708339

EPA Method: SW8015C	Extraction: SW3550C	BatchID: 29950	Spiked Sample ID: 0708339-009A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	240	20	NR	NR	NR	104	107	3.49	70 - 130	30	70 - 130	30
%SS:	122	50	116	116	0	101	111	9.26	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 29950 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708339-008A	08/10/07 11:30 AM	08/13/07	08/16/07 2:20 PM	0708339-009A	08/10/07 11:45 AM	08/13/07	08/17/07 10:30 AM

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

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

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

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.
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AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #270308; Allen	Date Sampled: 08/21/07
		Date Received: 08/21/07
	Client Contact: Adrian Angel	Date Reported: 08/27/07
	Client P.O.:	Date Completed: 08/27/07

WorkOrder: 0708608

August 27, 2007

Dear Adrian:

Enclosed are:

1). the results of **3** analyzed samples from your **#270308; Allen 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

0708608 AEL

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No **Email PDF Report: YES**

Report To: Adrian Angel	**Bill To:** Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	**E-Mail:** aangel@aeiconsultants.com
Tel: (925) 944-2899, extension 132	**Fax:** (925) 944-2895
Project #: 270308	**Project Name:** Allen
Project Location: 325 Martin Luther King Jr Way, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: TPH-gas & MBTEX (8015/8021)	TPH-diesel with silica gel cleanup (8015)	Fuel additives, including EDB and DCA (8260)	Lead (Dissolved) - 6010	Comments
MW-1		8/21/07	1:50p	5	VOA	X					X	X																		X	X	X	X	
MW-2		"	2:06p	1	"	X					X	X																		X	X	X	X	
MW-3		"	2:15p	1	"	X					X	X																		X	X	X	X	

Relinquished By:	Date:	Time:	Received By:
	8/21/07	7:55p	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 13.8° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

	VOAS	O&G	METALS	OTHER
PRESERVATION				
APPROPRIATE ✓				
CONTAINERS				

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0708608 **ClientID: AEL**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Adrian Angel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Email: aangel@aeiconsultants.com
TEL: (925) 283-600 FAX: (925) 283-612
ProjectNo: #270308; Allen
PO:

Bill t
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received **08/21/2007**
Date Printed: **08/22/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0708608-001	MW-1	Water	8/21/2007 1:50:00	☐	C	A	D	D	A	B						
0708608-002	MW-2	Water	8/21/2007 2:06:00	☐	C	A	D	D		B						
0708608-003	MW-3	Water	8/21/2007	☐	C	A	D	D		B						

Test Legend:

1	5-OXYS+PBSCV_W	2	G-MBTEX_W	3	PBMS_DISS	4	PRDISSOLVED	5	PREDF REPORT
6	TPH(D)WSG_W	7		8		9		10	
11		12							

Prepared by: Chloe Lam

Comments:

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

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Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **8/21/2007 10:21:18 PM**

Project Name: **#270308; Allen**

Checklist completed and reviewed by: Chloe Lam

WorkOrder N°: **0708608** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 13.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 08/21/07
2500 Camino Diablo, Ste. #200		Date Received: 08/21/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 08/24/07
	Client P.O.:	Date Analyzed 08/24/07

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0708608

Lab ID	0708608-001C	0708608-002C	0708608-003C		Reporting Limit for DF =1	
Client ID	MW-1	MW-2	MW-3			
Matrix	W	W	W			
DF	1	1	10		S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND<5.0		NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND<50		NA	5.0
1,2-Dibromoethane (EDB)	ND	ND	34		NA	0.5
1,2-Dichloroethane (1,2-DCA)	5.2	ND	140		NA	0.5
Diisopropyl ether (DIPE)	ND	ND	ND<5.0		NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND<5.0		NA	0.5
Methyl-t-butyl ether (MTBE)	18	ND	ND<5.0		NA	0.5
Surrogate Recoveries (%)						
%SS1:	107	108	101			
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 coelutes with another peak; &) low surrogate due to matrix interference.

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

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 08/21/07
2500 Camino Diablo, Ste. #200		Date Received: 08/21/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 08/23/07-08/24/07
	Client P.O.:	Date Analyzed 08/23/07-08/24/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0708608

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	15	ND	ND	ND	ND	1	90
002A	MW-2	W	ND	ND	ND	ND	ND	ND	1	90
003A	MW-3	W	24,000,a	ND<180	2600	3500	450	2400	10	109

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 08/21/07
2500 Camino Diablo, Ste. #200		Date Received: 08/21/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 08/21/07
	Client P.O.:	Date Analyzed 08/22/07

Lead by ICP-MS*

Extraction method E200.8 Analytical methods E200.8 Work Order: 0708608

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0708608-001D	MW-1	W	DISS.	ND	1	N/A
0708608-002D	MW-2	W	DISS.	ND	1	N/A
0708608-003D	MW-3	W	DISS.	8.6	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	0.5	µg/L
	S	TOTAL^	NA	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL^ = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL^ metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

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AEI Consultants	Client Project ID: #270308; Allen	Date Sampled: 08/21/07
2500 Camino Diablo, Ste. #200		Date Received: 08/21/07
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 08/21/07
	Client P.O.:	Date Analyzed 08/23/07

Diesel Range (C10-C23) Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method SW3510C/3630C Analytical methods SW8015C Work Order: 0708608

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0708608-001B	MW-1	W	ND	1	95
0708608-002B	MW-2	W	ND	1	97
0708608-003B	MW-3	W	2100,d	1	101

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708608

EPA Method SW8260B	Extraction SW5030B	BatchID: 30129	Spiked Sample ID: 0708576-021A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	95.7	93.4	2.44	93.4	94.2	0.841	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	102	108	5.64	99.7	101	1.17	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	108	107	1.17	107	106	0.745	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	101	99.3	1.93	97	101	4.21	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	110	107	2.80	107	108	1.18	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	102	99.6	2.01	100	100	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	99.7	98.2	1.51	97.6	98.1	0.543	70 - 130	30	70 - 130	30
%SS1:	110	10	102	99	2.28	101	101	0	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 30129 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708608-001C	08/21/07 1:50 PM	08/24/07	08/24/07 7:31 PM	0708608-002C	08/21/07 2:06 PM	08/24/07	08/24/07 8:25 PM
0708608-003C	08/21/07 12:19 PM	08/24/07	08/24/07 8:48 AM				

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

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

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

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

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

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708608

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 30130	Spiked Sample ID: 0708625-001A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	96.3	97.2	0.858	74.7	93.8	22.8	70 - 130	30	70 - 130	30
MTBE	ND	10	107	115	7.23	108	113	4.55	70 - 130	30	70 - 130	30
Benzene	ND	10	85.6	88.2	3.00	87.8	92	4.64	70 - 130	30	70 - 130	30
Toluene	ND	10	98.9	103	4.25	86.9	90.3	3.78	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	96.5	99.5	3.06	88.7	91.7	3.42	70 - 130	30	70 - 130	30
Xylenes	ND	30	110	113	2.99	85.3	86.3	1.17	70 - 130	30	70 - 130	30
%SS:	89	10	93	92	1.29	99	101	1.71	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 30130 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708608-001A	08/21/07 1:50 PM	08/24/07	08/24/07 8:34 PM	0708608-002A	08/21/07 2:06 PM	08/23/07	08/23/07 9:30 AM
0708608-003A	08/21/07 12:19 PM	08/23/07	08/23/07 10:03 AM				

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

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

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

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708608

EPA Method E200.8 **Extraction E200.8** **BatchID: 30133** **Spiked Sample ID: 0708590-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	2.2	10	99.8	104	3.15	103	103	0	70 - 130	20	80 - 120	20
%SS:	102	750	97	101	3.54	95	97	2.96	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 30133 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708608-001D	08/21/07 1:50 PM	08/21/07	08/22/07 6:44 PM	0708608-002D	08/21/07 2:06 PM	08/21/07	08/22/07 6:49 PM
0708608-003D	08/21/07 12:19 PM	08/21/07	08/22/07 7:18 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 applicable to this method.

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

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0708608

EPA Method SW8015C **Extraction SW3510C/3630C** **BatchID: 30085** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	122	121	0.605	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	108	108	0	N/A	N/A	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 30085 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0708608-001B	08/21/07 1:50 PM	08/21/07	08/23/07 3:19 AM	0708608-002B	08/21/07 2:06 PM	08/21/07	08/23/07 4:30 AM
0708608-003B	08/21/07 12:19 PM	08/21/07	08/23/07 5:41 AM				

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

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

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

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

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