



AEI Consultants

Environmental & Engineering Services

January 12, 2012

INVESTIGATION AND REMEDIAL ACTION WORKPLAN

Property Identification:

1630 Park Street
Alameda, California

AEI Project No. 298931
ACEHD Fuel Leak Case No. RO0000008

Prepared for:

Foley Street Investments
Attn: Mr. John Buestad
2533 Clement Avenue
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Prepared by:

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January 12, 2012

Alameda County Environmental Health Department
Attn: Ms. Karel Detterman
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Investigation and Remedial Action Workplan

1630 Park Street
Alameda, California
AEI Project No. 298931
ACEHD Fuel Leak Case No. RO0000008

Dear Ms. Detterman:

AEI Consultants (AEI) has prepared this Investigation and Remedial Action Workplan on behalf of Foley Street Investments, developer of the subject site (See Figure 1 and Figure 2). The subject of this Workplan is the leaking underground storage tank (LUST) case located at the property 1630 Park Street, known as the Good Chevrolet site. The Alameda County Environmental Health Department (ACEHD) is the agency with regulatory oversight of the LUST case. This Workplan has been prepared to present the scope of work to ACEHD that we have been requested to perform at the site. This scope of work includes the following tasks:

1. Implement additional site investigation to assess the limits of impacted soil and groundwater, primarily in a southerly direction from the release area.
2. Upon receipt of data, finalize the locations of and install additional dual phase extraction (DPE) wells to increase recovery of petroleum hydrocarbons.
3. Resume operation of the HVDPE system to increase and maintain hydrocarbon recovery rates.

This workplan includes the following components:

- o A summary of the property history and prior environmental investigations;
- o Soil and groundwater data summary;
- o Scope of work, rationale, and field procedures to be implemented to complete additional investigation;
- o Summary of high vacuum dual phase extraction (HVDPE) pilot test and interim removal action results;
- o Scope of work and field procedures to install additional DPE wells;
- o A summary of other tasks planned for the site.

1.0 Property Overview

1.1 Property Description

The development site consisting of 1600 to 1630 Park Street is an irregularly shaped property totaling approximately 1.46 acres, of which the northern portion is the 1630 Park Street site. The site is bound by Park Street to the northwest, 1650 Park Street to the northeast, Foley Street to the Southeast, and Tilden Way to the southwest in a mixed commercial and residential area of Alameda, California. Hereinafter, unless otherwise stated, the "site" will refer to the 1630 Park Street property.

The site is currently improved with a two-story showroom and office building totaling approximately 11,264 square feet and parking lot which was until approximately 2008 occupied by Good Chevrolet. Good Chevrolet also occupied the 1600 to 1618 property to the south, which is also vacant. Refer to Figure 2 for the property layout and major site features.

1.2 Planned Development Project

Foley Street Investments plans to demolish the existing buildings and construct two commercial buildings. The northern building is planned for the area of the existing Good Chevrolet building along Park Street. The remainder of the development site will be improved with paved parking areas and landscaping. Construction of the new building will begin in June 2012.

2.0 Site History

Based on historical research performed during a Phase I Environmental Site Assessment (ESA) conducted in June 2011, the current building at the site was constructed in the 1940s for use as an auto garage and showroom. Good Chevrolet occupied the site from the early 1960s through 2008.

2.1 Prior Environmental Work

According to records on file with the ACEHD, one 300-gallon waste-oil underground storage tank (UST) and one 500-gallon gasoline UST were removed from adjacent to the northern side of the building in 1986 at which time a release of petroleum hydrocarbons, primarily gasoline, was discovered. Due to the discovery of a release, a case was opened with the ACEHD. Following is a summary of investigation activities that followed.

- In 1987, Groundwater Technologies installed three groundwater monitoring wells (MW-1 to MW-3) and drilled two soil borings (SB-4 and SB-5) to investigate soil and groundwater conditions around the former UST hold.
- In October 1993, Geoplexus collected and analyzed soil and groundwater samples from seven soil boring (EB1 to SB7) drilled around the UST hold along with up-gradient and down-gradient of the release. It should be noted that documents indicate that two other borings (HP-1 and HP-2) were drilled up-gradient of the release area in April 1993, however details are not available. Geoplexus installed monitoring wells MW-4 and MW-5 in April 1994 in Park Street to investigate the down-gradient extent of the hydrocarbon plume.

- In January 1997, Geoplexus drilled an additional eight soil borings (EB8 to EB12 and P1 to P3) onsite around and down-gradient of the former UST hold. Soil samples were analyzed from EB8 to EB12 and groundwater samples were analyzed for all eight borings.
- In November 1998, Geoplexus collected three soil gas samples from three borings (AGP-1 to AGP-3) in the release area and within the adjacent building. Geoplexus presented an argument for "low risk" closure however case closure was not granted.
- In April 2008, Blymer Engineers collected soil and groundwater samples from 24 soil borings (GP1 to GP24) on and offsite to characterize the extent of soil and groundwater pollution. It should be noted that AEI was not able to locate a formal report of these activities, only tables of soil and groundwater data and figures have been located. A copy of this information is included as Appendix B.
- Groundwater monitoring was conducted approximately quarterly from 1992 through 1995, then sporadically through 2003, once in 2008, and most recently by AEI in June 2011.

Based on the reports available to AEI, no remedial activities have been performed at the site since removal of the USTs. Site data is presented in Tables 1 to 9; select data is presented on Figures 3 and 4. Reports relating the historical investigation work are referenced in Section 12.0.

2.2 Recent Site Assessments

Following the Phase I ESA and in preparation for development of the site and property to the south (1600 to 1618 Park Street), AEI was retained by Foley Street Investments to perform a Phase II subsurface investigation of the property, relating to potential environmental issues aside from the Good Chevrolet LUST case. The areas of concern investigated include five former and five existing underground hydraulic lifts, several floor drains, three existing USTs (1 550-gallon waste-oil UST, 1 10,000 gallon 1 4,000 gallon gasoline UST), and a former gasoline station identified on the southern end of the development site at the intersection of Park Street and Tilden Way. A total of 19 soil borings (AEI-1 to AEI-19) were drilled for soil and groundwater sampling.

Results of the investigation are summarized in the August 16, 2011 *Phase II Subsurface Investigation Report*, prepared by AEI. The only significant release identified during this investigation was in the area of several former (removed) underground hydraulic lifts in the northern section of the 1630 Park Street building, just south of and on the other side of the building wall from the fuel release area (Refer to Figure 2). Significant concentrations of total petroleum hydrocarbons (TPH) as gasoline (TPH-g), as diesel (TPH-d), and motor oil (TPH-mo) were detected in borings AEI-3, AEI-4, and AEI-6 to AEI-8. Based on the presence of benzene, toluene, ethyl-benzene, and xylenes (BTEX) and TPH-g in several of the samples, it is apparent that the fuel release has migrated beneath the building. In addition, the high concentrations TPH-d and TPH-mo are consistent with a release of hydraulic oil from several of the former lifts. PCBs were not detected. In this area, the hydraulic oil and gasoline have commingled. A more detailed discussion of the release conditions was presented in the September 28, 2011 ICAP.

3.0 Geologic Setting and Hydrology

The site is located on Alameda Island. The near surface sediments of the area are mapped as Holocene and Pleistocene Merritt Sands (Qms) deposits (Helley, et al). Depth to bedrock is

estimated at 300 to 800 feet below land surface (Norfleet Consultants, 1998). According to information obtained from the U.S Geological Survey (USGS), the site is located at between 20 and 25 feet above mean sea level (amsl) with the local topography sloping gently to the northeast. The nearest surface water body is the tidal canal located approximately 1500 to 2000 feet to the northeast.

During the recent drilling conducted by AEI in July 2011, groundwater was first observed in the temporary direct push borings at depths of approximately 9 to 11 feet bgs and stabilized at between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 7.5 to 9.5 feet bgs since the wells were installed. Based on the groundwater monitoring conducted at the site, groundwater flows fairly consistently in a northwesterly direction at an approximate hydraulic gradient of 1×10^{-2} to 2×10^{-2} ft/ft and exists as an unconfined aquifer. Based on the logs of soil borings drilled at the site, sediments across the site are fairly consistent; consisting primarily of poorly graded fine to medium sand with varying clay and silt content to a depth of at least 25 feet bgs, the maximum depth explored. Logs of borings for remediation wells installed in November 2011 were consistent with these prior observations.

4.0 Proposed Investigation

Prior soil and groundwater investigation has defined the extent of the release to the west, north, east, and southeast of the release area adequately. However, in the southeasterly to southwesterly directions, the extent has not been defined. Please refer to Figures 3 and 4 for a graphical description of the estimated extent of impacted soil and groundwater based on prior assessments.

An additional soil boring investigation is proposed to quickly and to cost effectively identify the limits of the release. This data will be utilized to guide the upcoming installation of additional extraction wells to be utilized during interim remedial action as well as in mass estimated and subsequent final corrective action planning. In addition, based on a conversation with ACEHD on January 5, 2012, a boring will be placed in the eastern corner of the property where a former paint booth was located.

The investigation will include soil and groundwater sampling by use of direct push drilling equipment. Proposed boring locations are shown Figure 2 and a summary of the rationale for the borings are as follows.

Boring ID	Rationale	Analyses*
AEI-20	Apparent plume core, between EB5, EB8, GP11	TPH-g, MBTEX
AEI-21 to AEI-22	South of GP24, EB3, EB10	TPH-g, MBTEX
AEI-23	West of AEI-3 and AEI-4	TPH-g, MTBEX, TPH-d/mo
AEI-24 to AEI 26	South of AEI-3, GP24, and AEI-6 to AEI-8	TPH-g, MTBEX, TPH-d/mo
AEI-27	Request by ACEHD in area of former paint booth	TPH-g/d/mo, VOCs, CAM17

* TPH-g by EPA method 8015; MBTEX (MTBE, benzene, toluene, ethyl benzene, xylenes) by EPA method 8021; TPH-d/mo (TPH as diesel and as motor oil) by EPA method 8015 w/ silica gel cleanup; VOCs (volatile organic compounds) by EPA method 8260; CAM17 (CAM 17 metals) by EPA method 6010.

In the event that field observations indicate that the release has spread farther south than the borings planned, additional borings may be performed to efficiently define the release.

4.1 Permits and Clearances

As required, a subsurface drilling permit will be obtained from the Alameda County Public Works Agency (ACPWA) prior to drilling activities. Prior to beginning drilling activities, Underground Service Alert (USA) will be notified at least three (3) days prior to drilling. Onsite underground utility locations will be reviewed and, if needed, a private utility locating service retained to clear drilling locations.

4.2 Drilling and Soil Sampling

All drilling work will be performed by a California C-57 licensed drilling contractor working under the direction of AEI professional staff. Once drilling dates have been established, the client and other involved parties, ACPWA and ACEHD will be notified of the schedule.

The soil borings will be advanced with a direct-push drilling rig (GeoProbe or similar). The borings will be advanced to anticipated depths of approximately 16 to 20 feet bgs, as necessary for the collection of groundwater samples. Soil will be continuously collected from each boring in approximately 4-foot long, 2-inch diameter acrylic liners. The borings will be logged by an AEI geologist or engineer, under the direction of a California Professional Geologist (PG) using the Unified Soil Classification System (USCS). Soil samples will be cut from the liners at intervals of approximately 4 feet or more frequently based on field observations and organic vapor measurements collected in the field to definite the vertical profile of impacted soil above and below the water table. A sub-sample of each sample collected for potential chemical testing will be placed into a zipper-locking bag and screened for the presence of organic vapors with a photo-ionization detector (PID). Samples will be selected for analysis based on PID readings, sensory observations of impact, and changes in soil types. Selected soil samples will be sealed with Teflon tape and end caps, labeled with a unique identifier, and stored over water ice. It is expected that 3 to 5 soil samples will be collected for possible chemical analyses from each boring. samples will be collected at intervals of approximately 5 feet or at each change in lithology.

4.3 Groundwater Sampling

Groundwater samples will be collected from each boring. Upon encountering groundwater, a temporary 3/4 inch factory slotted well casing will be installed into saturated sediments with blank casing to ground surface. Water levels will be measured before sample collection and each temporary casing will be purged to the extent practical prior to sample collection. Samples will be collected with a peristaltic pump or check valve into appropriate laboratory supplied containers.

4.4 Sample Storage and Analyses

All samples will be labeled with at a minimum, a unique sample identification, sample date and time, and project number. The samples will be sealed in plastic bags and immediate placed in a

pre-chilled cooler over water ice. Samples will be entered onto a chain of custody prior to leaving the site. Samples will be delivered on the day of collection to a California Department of Health Services (DHS) certified analytical laboratory.

One groundwater sample and an estimated two to three soil samples are planned for analysis from each boring. It is planned that soil and groundwater samples selected for analyses will be analyzed as outlined in the table at the beginning of Section 4.0. The soil and groundwater samples from SB-27 will also be analyzed for VOCs by EPA method 8260 and the shallowest soil sample (approx. 1 ft bgs) from this boring for CAM 17 metals (TTLC extraction) by EPA method 6010.

4.5 Boring Destruction

Upon completion of sampling, all temporary casing and sampling rods will be removed from the borings. The temporary soil borings will be backfilled with cement grout. The grout will be mixed at a ratio of one (1) 94-pound bag of Type II Portland cement to 5-gallons of water.

5.0 Interim Remedial Action Status

Three (3) dual phase extraction wells (DPE-1 to DPE-3) and one air sparge well (AS-1) were installed on November 14 and 15, 2011. On December 6, 2011 vapor monitoring points (VP-1 to VP-3) were installed on December 6 and groundwater monitoring of wells MW-1 to MW-3 and DPE-1 to DPE-3 was performed prior to start of extraction activities. Soil and groundwater sample data from these activities are included in the tables of this workplan; however, formal reporting (well logs and monitoring field data, analytical reports, etc) will occur later. Later that day, the high vacuum dual phase extraction (HVDPE) pilot test and interim corrective action began. The HVDPE system was provided and operated by CalClean Inc.

Between December 6, 2011 and January 9, 2012 (35 days), approximately 4257 pounds (681 gallons) of hydrocarbons have been removed in the vapor phase, based on field measurements collected by CalClean of flow and total inlet hydrocarbon concentrations. A total of 42,850 gallons of groundwater have been removed, treated, and discharged under permit.

Pilot test measurements were collected to assess the vacuum radius of influence (ROI_v). Based on an effective ROI_v of 0.10 inches of water (in H_2O), initial data review indicates an effective ROI_v is at least 32 feet. This is consistent with expectations for a sandy soil. Preliminary water level data review indicates drawdown of approximately 1.4 feet at a distance of approximately 36 feet to 1.8 feet at a distance of 22 feet from the extraction well network. More extensive data analyses will be presented in the pilot test reporting with the FS / CAP. Collection of additional measurements during upcoming extraction will be needed to estimate drawdown closer to the extraction wells and between multiple wells (when multiple wells are simultaneously used for extraction), which is expected to be appreciably lower than measured at the edges of the treatment area. Although the effective ROI_v is relatively high, the effectiveness of treatment across the target interval is also dependent on the sufficient lowering of water levels to expose impacted soil to airflow. Based on the need to lower the water levels within the target interval, the upper-bound value of the drawdown radius of influence sufficient to expose the impacted soil will be less than 22 feet. For the purposes of selecting tentative

additional extraction wells, a radius of 15 feet has been selected; with overlap to avoid “dead zones” between wells, this corresponds to wells located approximately 25 feet apart.

6.0 Continued Removal Action

Based on the early success of initial removal action, AEI has been retained to install additional extraction wells and CalClean instructed to resume HVDPE removal action toward the end of January 2012. The HVDPE system was shut down on January 9, 2012 to allow for the extraction wells to recover and time for the installation of additional wells. It is anticipated that additional wells will be installed over the next 2 weeks, after which time remobilization of the HVDPE is planned.

6.1 Additional Remediation Well Installation

It is planned that six to eight additional dual phase extraction (DPE) wells (DPE-4 to DPE-11) will be installed. The locations will be finalized upon completion of the soil boring investigation outlined in Section 4.0, however tentative locations are shown on Figure 6. The well locations have been selected to cover areas of documented significant remaining petroleum hydrocarbons. A summary of the location and rationale for the tentative additional DPE wells is summarized below, however these locations are subject to adjustment based on observations during the upcoming soil borings. Also, an additional phase of well installation could be needed to complete coverage of the target area.

Well ID	Location and Rationale
DPE-4	West of release area; subject to observations in borings AEI-21 to AEI-23
DPE-5 & DPE-6	South of release area; area of high PHC in AEI-3, AEI-4, and GP22
DPE-7 & DPE-8	North and east of release area; area of high PHC in 2008 and prior borings
DPE-9 to DPE-11	Northwest and west of release area (down-gradient, apparent plume core) subject to results of boring AEI-20

PHC = petroleum hydrocarbons

Prior to mobilizing, well construction permits will be obtained from Alameda County Public Works Agency (ACPWA), the site will be marked and underground service alert north (USAN) will be notified, and a private utility locating service retained to clear the planned drilling locations.

The drilling and well installation will be performed with a hollow stem auger drilling rig. Borings will be cored to log soil and determine the interval of the well screens. It is planned that DPE wells will be screened from approximately 7 to 16 feet bgs, although exact screen intervals will be determined in the field; DPE wells will be constructed of 4” diameter flush threaded and factory slotted (0.010) well casing. The annulus of each well will be filled with sand to above the screen interval, with 1 to 2 feet of bentonite above the sand interval, and sealed to the surface with cement grout in accordance with ACPWA permitting conditions and remediation standard well construction practices. The tops of each well will be affixed with a locking, expanding well cap and a traffic-rated well box.

Soil samples may be collected during well installation and retained for analyses. It is expected that 1 to 2 soil samples may be analyzed for TPH multi-range (TPH as gas +/- diesel/motor oil) by EPA method SM8015C/Cm with silica gel cleanup (for diesel / motor oil analyses) and MTBE and BTEX by EPA Method 8021B. Several soil samples will also be analyzed for physical properties including grain size distribution, porosity, and hydraulic conductivity by ASTM methods.

Upon completion of the wells, Department of Water Resources (DWR) well registration forms (DWR 188 forms) will be filed. Each of the newly installed wells, along with recently installed DPE wells and monitoring points and existing groundwater monitoring wells, will be surveyed relative to each other, mean sea level, and major site features; survey data will be uploaded to the GeoTracker database.

6.2 Planned HVDPE Extraction

Following the investigation and well installation activities, CalClean has been directed by the client to remobilize to the site to resume HVDPE. The primary objective of resumed HVDPE will be to maximize hydrocarbon recovery rates and reduce the overall mass of petroleum in and around the release area. To maximize rates, the system will be operated on a set of wells until rates decline, after which that set of wells will be allowed to "relax" while a new set of wells will be extracted upon. All vapor and water discharge will be performed under permits obtained by CalClean. Routine data collection will include system and wellhead vacuums, system flow rates, individual and combined total hydrocarbon concentrations (Horiba field measurements and periodic laboratory analyses), vacuum influence, and water flow rates. Water levels will be recorded in select wells via pressure transducers. It is expected that HVDPE may run for 2 to 4 months following remobilization. ACEHD will be updated on the schedule and provided regular updates on the operations and progress.

7.0 Additional Planned Activities

In addition to implementing the scope of work outlined above for the investigation, additional extraction wells, and resumed HVDPE extraction, AEI has been directed to perform the following activities during the first quarter 2012.

- Prepare the Feasibility Study / Corrective Action Plan (FS/CAP) document which will include findings of the recent pilot testing activities and other FS/CAP components requested in the November 4, 2011 letter. It is expected that this document will be completed by the Pilot Test Report due date of February 3, 2012.
- Complete the receptor well and conduit surveys.
- Evaluate the need for vapor intrusion (VI) assessment and, if directed by our client, collect soil gas samples for use in considering vapor intrusion VI potential and possible VI mitigation measures. ACEHD will be consulting regarding potential VI considerations.

8.0 Decontamination and Waste Handling

Drilling and sampling equipment including probe rods, soil samplers, augers, and other tooling used during the investigation and well installation work will be scrubbed and cleaned with

Alconox™ or equivalent detergent and rinsed with clean water between borings to minimize the potential for cross-contamination.

Soil cuttings, rinsate, and other investigation-derived wastes (IDWs) will be temporarily stored in sealed 55-gallon drums or sealed 5-gallon buckets in a secure location on-site pending proper disposal. IDW will include soil cuttings, plastic sample liners, and other sampling disposables. Equipment rinse water will also be stored in 55-gallon drums, separate from solid IDW. Upon receipt of analytical results, the waste will be profiled into appropriate disposal or recycling facilities and transported from the site under appropriate manifest. Copies of manifest(s) will be made available once final copies are received from the disposal facility(s).

9.0 Site Safety

AEI will prepare a site specific Health and Safety Plan conforming to Part 1910.120 (i) (2) of 29 CFR. Prior to commencement of field activities, a site safety meeting will be held at a designated command post near the working area each day of fieldwork. The Health and Safety Plan will be reviewed and emergency procedures will be outlined at this meeting, including an explanation of the hazards of the known or suspected chemicals of interest. All site personnel will be in Level D personal protection equipment, which is the anticipated maximum amount of protection needed. A working area will be established with barricades and warning tape to delineate the zone where hard hats, steel-toed shoes and safety glasses must be worn, and where unauthorized personnel will not be allowed. The site Health and Safety Plan will be on site at all times during the project.

10.0 Reporting

Upon receipt of data, AEI will consolidate the findings of investigation and sampling activities and prepare a summary memo for review by the client and ACEHD. The information obtained during the investigation and well installation drilling work will be formally reported in a stand-alone document or included in the upcoming Feasibility Study / Corrective Action Plan (FS/CAP) and to update the Site Conceptual Model (SCM). Reports and data presentations will be uploaded into the GeoTracker database, as necessary. The project will be overseen and the documentation signed by an AEI California registered professional geologist or engineer.

11.0 Schedule

Field activities for the additional soil borings (Section 4) have been permitted and are schedule to occur on January 17, 2012. Well installation permitting is underway and drilling work is tentatively schedule to start on January 19, 2012; this schedule will be confirmed in the coming days. Remobilization of the HVDPE equipment will be coordinated such that the newly installed well seals have had adequate time to set. The FS/CAP is expected to be delivered to ACEHD by February 3, 2012.

12.0 References

- Alameda County Environmental Health Department (ACEHD), November 4, 2011. *Request for Pilot Test Workplan*
- ACEHD, November 23, 2011. *Conditional Approval of Pilot Test Workplan*
- AEI Consultants (AEI), August 16, 2011. *Phase II Subsurface Investigation, 1600 to 1630 Park Street, Alameda, California*
- AEI, September 28, 2011. *Interim Corrective Action Plan, 1630 Park Street, Alameda, California*
- AEI, November 14, 2011. *ICAP Comment Letter Response and Pilot Test Workplan Details, 1630 Park Street, Alameda, California*
- GeoPlexus Incorporated, October 28, 1993. *Supplemental Site Characterization, Good Chevrolet 1630 Park Street, Alameda, CA*
- GeoPlexus Incorporated, April 30, 1997. *Phase II Remedial Investigation Report, Good Chevrolet 1630 Park Street, Alameda, CA*
- GeoPlexus Incorporated, December 18, 1998. *Preliminary Remedial Risk Assessment for Good Chevrolet 1630 Park Street, Alameda, CA*
- Groundwater Technology, Inc. April 29, 1987. *Report Subsurface investigation Good Chevrolet 1630 Park Street, Alameda, CA*
- Helley, E.J. and R.W. Graymer, 1997. *Quaternary Geology of Alameda County and Surrounding Areas, California: Derived from the Digital Database Open-File 97-97, 1997*
- Norfleet Consultants, 1998. *Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, California*. Prepared for the Friends of the San Francisco Estuary, P.O. Box 791, Oakland, California, and dated June 15, 1998.

13.0 Report Limitations

This report has been prepared by AEI Consultants relating to the property located at 1630 Park Street, in the City of Alameda, Alameda County, California. This report includes a summary of site conditions and relies heavily on information obtained from public records and other resources; AEI makes no warrantee that the information summarized in this report includes consideration of all possible resources or information available for the site, whether referenced or not. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document 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) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to

detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. This document contains estimates of costs for various activities that could be implemented at the site. These estimates are based on reasonably expected costs for similar activities; however, AEI provides no guarantee implicit or explicit that costs will not be significantly higher or lower than those estimated. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

We welcome comments and questions from ACEHD staff. Please contact us (925) 746-6000.

Sincerely,
AEI Consultants



Bryan Campbell, PG
Sr. Project Manager



Adrian Angel
Project Geologist



Peter J. McIntyre, PG, REA
Sr. Vice President, Geologist



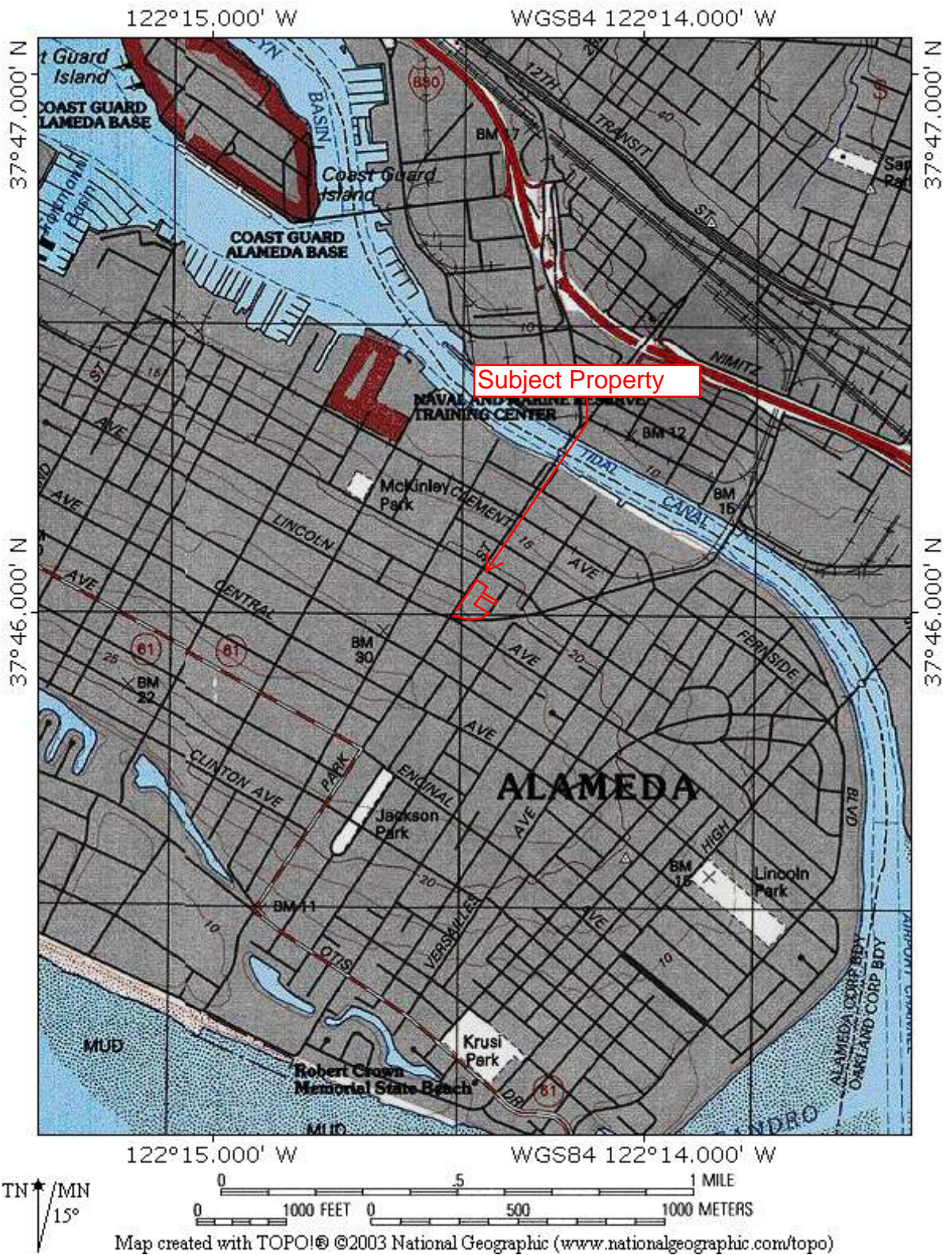
Distribution:

John Buestad, Foley Street Investments

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GeoTracker (Upload)

FIGURES



SITE LOCATION MAP

1600-1650 Park Street

Alameda, California 94501





LEGEND



- SUBJECT PROPERTY BOUNDARY
- GEOPHYSICAL SURVEY PERIMETER
- AEI SOIL BORING (7/26/11)
- APPROXIMATE LOCATION

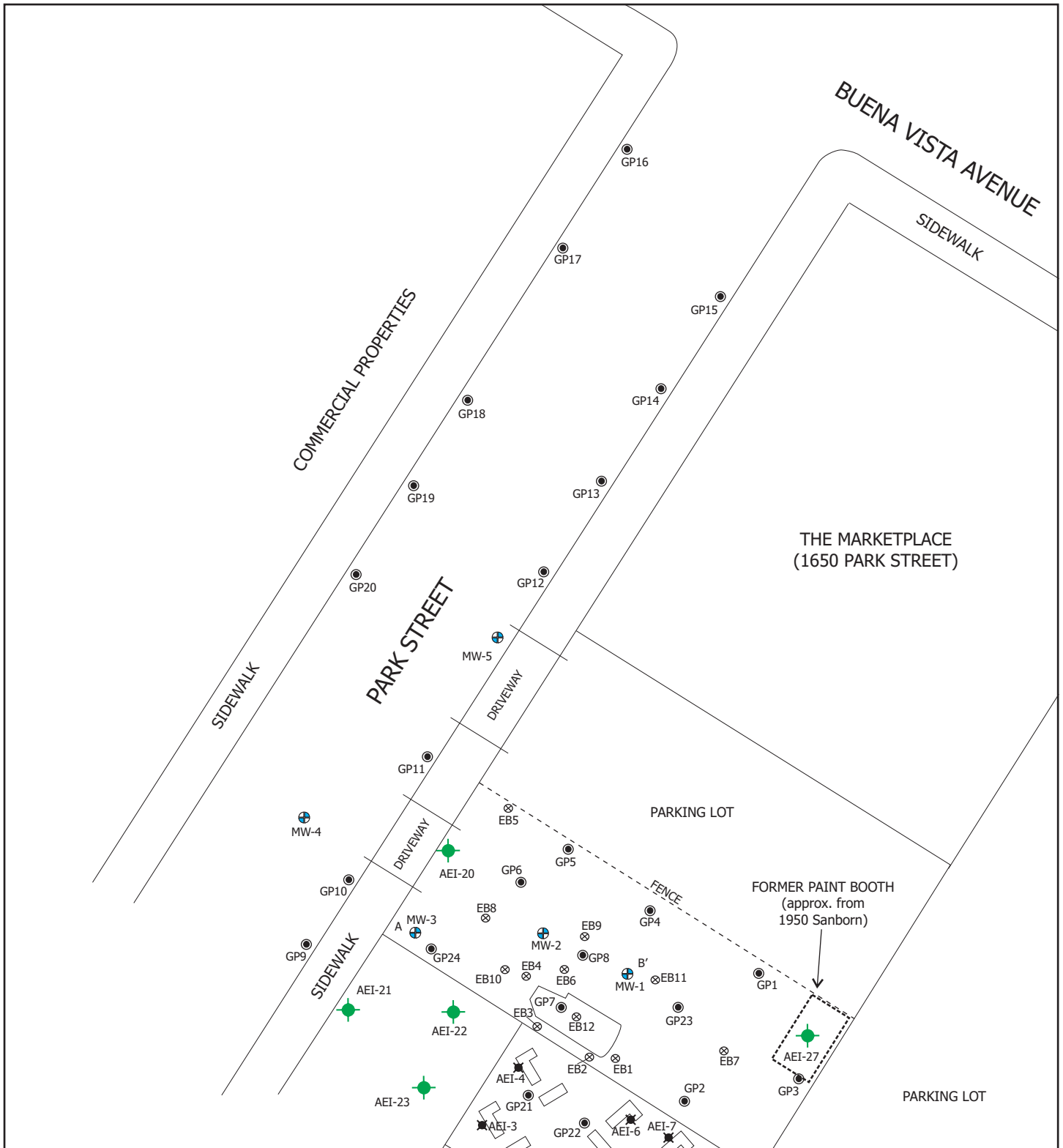
0' 110'
 APPROX. SCALE: 1 in = ~110 ft

SITE LAYOUT MAP

1600-1630 PARK STREET
 ALAMEDA, CALIFORNIA

FIGURE 2
 JOB NO: 298931





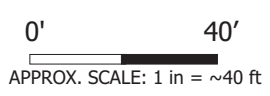
BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC.

LEGEND



- PROPOSED SOIL BORING
- AEI SOIL BORING LOCATION (7/11)
- SOIL BORING LOCATION (4/08)
- SOIL BORING LOCATION (1/97)
- GROUNDWATER MONITORING WELL

FORMER GOOD CHEVROLET
(1600 - 1630 PARK STREET)

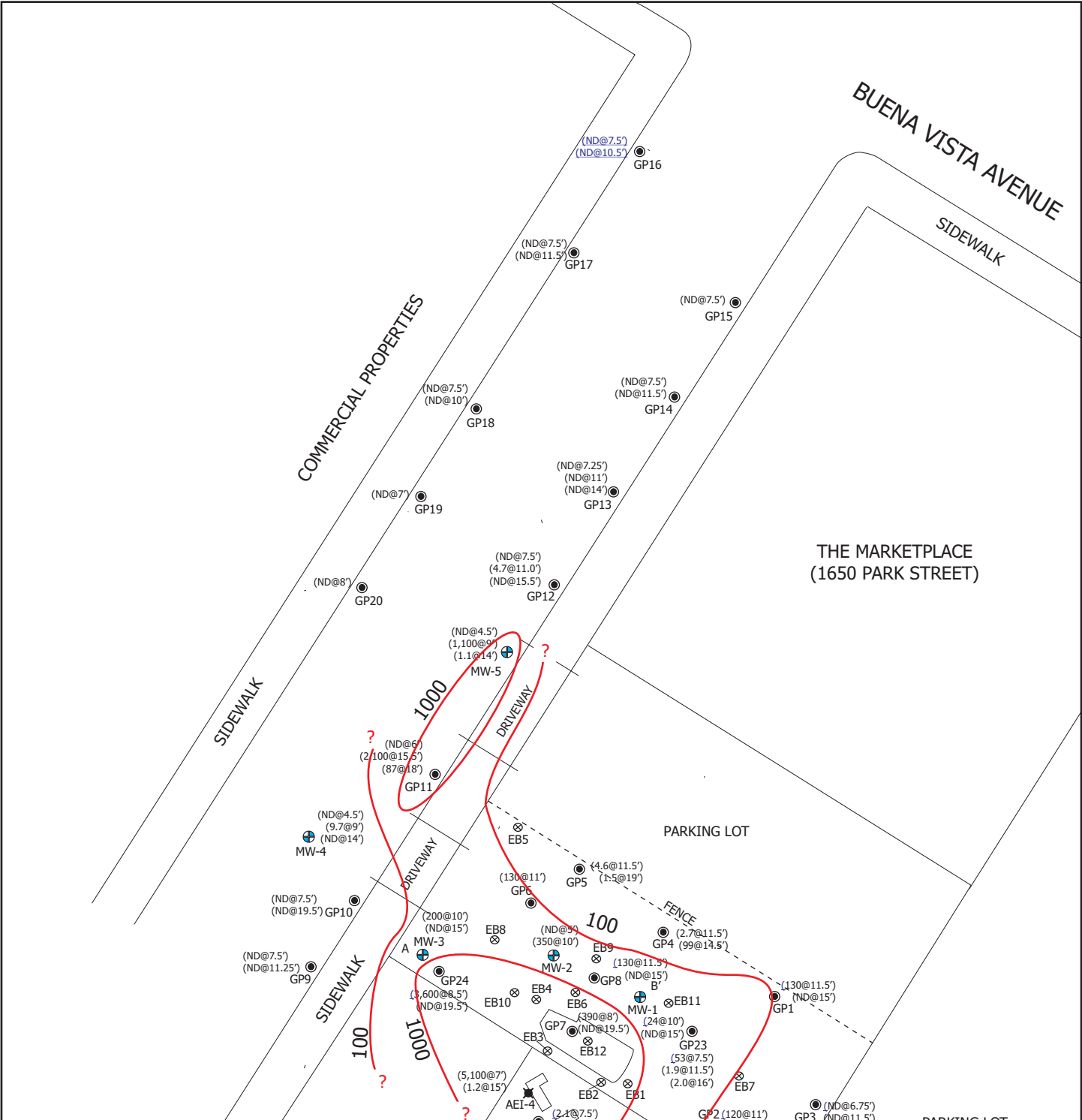


SITE PLAN

1600 - 1630 PARK STREET
ALAMEDA, CALIFORNIA






FIGURE 3
JOB NO: 298931





CONCENTRATIONS IN mg/kg
 BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC.
 2008 AND 2011 ANALYTICAL DATA USED IN CONTOURING ONLY

LEGEND

- FORMER HYDRAULIC LIFT 
- AEI SOIL BORING LOCATION (7/11) 
- SOIL BORING LOCATION (4/08) 
- SOIL BORING LOCATION (1/97) 
- GROUNDWATER MONITORING WELL 



FORMER GOOD CHEVROLET
 (1600 - 1630 PARK STREET)

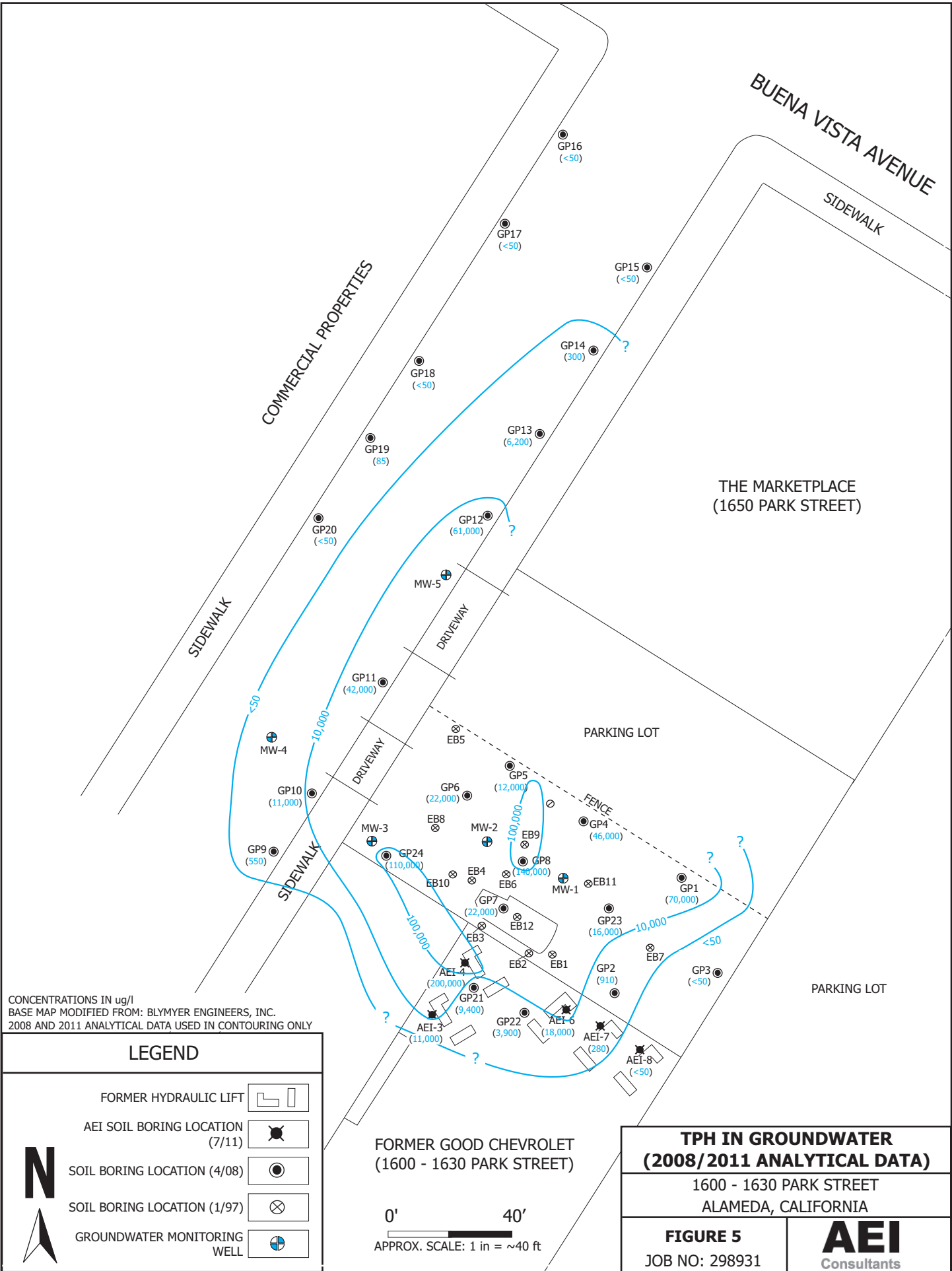


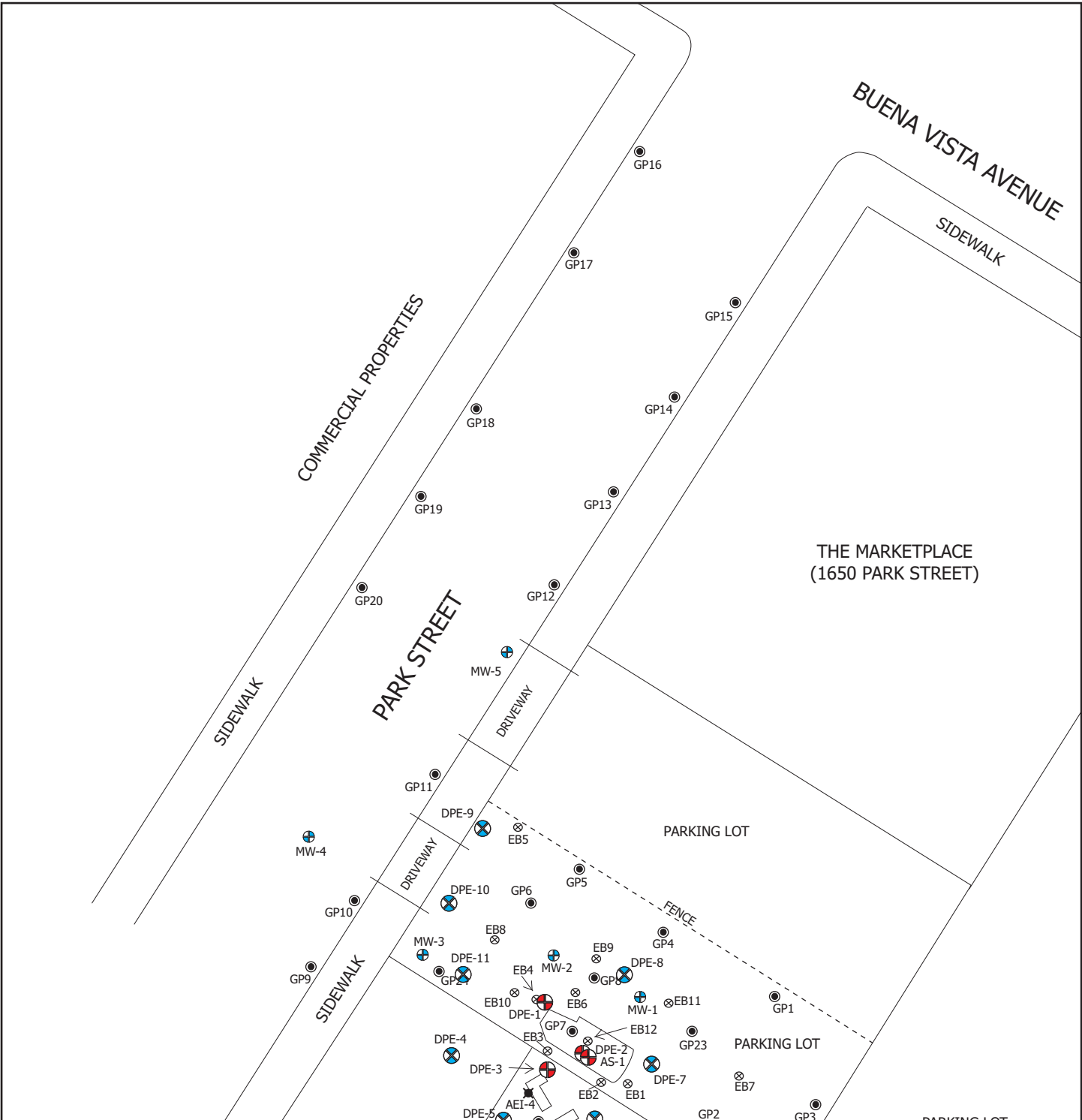
TPH IN SOIL
 (2008/2011 ANALYTICAL DATA)

1600 - 1630 PARK STREET
 ALAMEDA, CALIFORNIA







FIGURE 4
 JOB NO: 298931







LEGEND


- PROPOSED REMEDIATION WELL
DPE-4 to DPE-11 
- EXISTING REMEDIATION WELL
(INSTALLED DEC 2011) 
- AEI SOIL BORING LOCATION
(7/11) 
- SOIL BORING LOCATION (4/08) 
- SOIL BORING LOCATION (1/97) 
- GROUNDWATER MONITORING WELL 



FORMER GOOD CHEVROLET
(1600 - 1630 PARK STREET)



BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC.

Tentative Additional Remediation Wells	
1600 - 1630 PARK STREET ALAMEDA, CALIFORNIA	
FIGURE 6	
JOB NO: 298931	

TABLES

Table 1
Soil Sample Analytical Data
TPH, MBTEX and POG

AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	POG (mg/kg)
						<i>EPA Method SW8021B/8015B/m</i>					<i>EPA Method SM5520E/F</i>
MW-1-10	1/15/1987	10	24	-	-	-	2.9	3.6	-	1.8	-
MW-1-15	1/15/1987	15	<1.0	-	-	-	<0.1	<0.1	-	<0.1	-
MW-2-5	1/15/1987	5	<1.0	-	-	-	<0.1	<0.1	-	<0.1	-
MW-2-10	1/15/1987	10	350	-	-	-	14	22	-	23	-
MW-3-10	1/15/1987	10	200	-	-	-	9.8	16	-	16	-
MW-3-15	1/15/1987	15	<1.0	-	-	-	<0.1	<0.1	-	<0.1	-
SB-5-10	1/15/1987	10	6.5	-	-	-	<0.1	0.22	-	<0.1	-
EB1-S2	10/15/1993	8.5	510	-	-	-	0.89	10	5.8	41	-
EB1-S3	10/15/1993	11	2,300	-	-	-	22	190	57	280	-
EB2-S2	10/15/1993	10	15,000	-	-	-	84	710	260	1,400	-
EB2-S3	10/15/1993	11.5	200	-	-	-	4.3	15	3.9	20	-
EB3-S2	10/15/1993	10	2,200	-	-	-	9.4	71	42	200	-
EB3-S3	10/15/1993	12.5	610	-	-	-	1.2	3.2	4.5	2.9	-
EB4-S2	10/15/1993	8	4,900	-	-	-	32	230	84	440	-
EB4-S3	10/15/1993	10.5	7,600	-	-	-	60	390	130	630	-
EB5-S2	10/15/1993	9	1,800	-	-	-	<2.5	22	27	140	-
EB5-S3	10/15/1993	11.5	14	-	-	-	0.021	1.5	0.49	2.5	-
EB6-S2	10/15/1993	8.5	6,800	-	-	-	20	230	100	590	-
EB7-S2	10/15/1993	6.5	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	-
EB7-S3	10/15/1993	8.5	1,000	-	-	-	3.8	45	21	110	-
MW4-S1	4/20/1994	4.5	<50	-	-	-	<0.5	<0.5	<0.5	0.013	-
MW4-S2	4/20/1994	9	9.7	-	-	-	1.1	0.82	0.42	1.3	-
MW4-S3	4/20/1994	14	<50	-	-	-	<0.5	0.008	<0.5	0.022	-
MW5-S1	4/20/1994	4.5	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	-
MW5-S2	4/20/1994	9	1,100	-	-	-	12	43	20	93	-
MW5-S3	4/20/1994	14	1.1	-	-	-	0.033	0.17	0.044	0.22	-
EB8-S2	1/21/1997	9.5	2,000	-	-	<4	8.4	83	44	210	-
EB8-S3	1/21/1997	13.5	18	-	-	0.10	3.2	1.2	0.47	1.7	-
EB9-S1	1/21/1997	6.5	1.8	-	-	<5	0.071	0.052	0.026	0.074	-
EB9-S2	1/21/1997	9.5	1,300	-	-	<4	7.1	54	29	130	-
EB10-S1	1/21/1997	8.5	2,300	-	-	9.3	9.1	100	50	190	-
EB11-S1	1/21/1997	9.5	3,800	-	-	<9	8.8	190	97	510	-
EB11-S2	1/21/1997	12	13	-	-	<0.1	1.1	1.6	0.47	1.4	-

Table 1
Soil Sample Analytical Data
TPH, MBTEX and POG

AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	Approx. Depth (feet)	TPH-g (mg/kg)	TPH-d* (mg/kg)	TPH-mo* (mg/kg)	MTBE (mg/kg) <i>EPA Method SW8021B/8015B/m</i>	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	POG (mg/kg) <i>EPA Method SM5520E/F</i>
EB12-S1	1/21/1997	9.5	300	-	-	<0.6	0.95	0.59	3.5	18	-
EB12-S2	1/21/1997	12	1,300	-	-	6.2	9.4	23	35	130	-
GP1-11.5	4/29/2008	11.5	130	-	-	<0.005	<0.10	0.29	<0.10	0.42	-
GP1-15	4/29/2008	15	<1.0	-	-	<0.005	<0.005	0.0081	0.0065	0.028	-
GP2-11	4/29/2008	11	120	-	-	<0.010	<0.050	0.87	0.43	1.2	-
GP2-13.5	4/29/2008	13.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP3-6.75	4/29/2008	6.75	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP3-11.5	4/29/2008	11.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP4-11.5	4/29/2008	11.5	2.7	-	-	<0.005	0.14	0.052	0.072	0.17	-
GP4-14.5	4/29/2008	14.5	99	-	-	<0.020	0.48	1.4	1.0	4.5	-
GP5-11.5	4/29/2008	11.5	4.6	-	-	<0.005	0.12	0.078	0.14	0.48	-
GP5-19	4/29/2008	19	1.5	-	-	<0.005	<0.005	0.022	0.0069	0.032	-
GP6-11	4/29/2008	11	130	-	-	<0.10	0.11	1.0	1.1	5.4	-
GP7-8	4/30/2008	8	390	-	-	<0.050	0.84	2.2	4.3	18	-
GP7-19.5	4/30/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP8-8.5	5/1/2008	8.5	1,100	-	-	<0.050	<0.10	3.2	7.3	45	-
GP8-19.5	5/1/2008	19.5	5.8	-	-	<0.005	0.0091	0.067	0.048	0.21	-
GP9-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP9-11.25	5/1/2008	11.25	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP10-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP10-19.5	4/30/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP11-6	4/30/2008	6	<1.0	-	-	<0.005	<0.005	0.011	0.0053	0.026	-
GP11-15.5	4/30/2008	15.5	2,100	-	-	<0.10	5.7	71	38	180	-
GP11-18	4/30/2008	18	87	-	-	<0.020	0.059	0.93	0.67	4.2	-
GP12-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP12-11	4/30/2008	11	4.7	-	-	<0.005	0.015	0.21	0.067	0.32	-
GP12-15.5	4/30/2008	15.5	<1.0	-	-	<0.005	<0.005	0.0071	0.0051	0.025	-
GP13-7.25	4/30/2008	7.25	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP13-11	4/30/2008	11	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP13-14	4/30/2008	14	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP14-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP14-11	4/30/2008	11	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP15-7.5	4/30/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-

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TPH, MBTEX and POG

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						<i>EPA Method SW8021B/8015B/m</i>					<i>EPA Method SM5520E/F</i>
GP16-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP16-10.5	5/1/2008	10.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP17-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP17-11.5	5/1/2008	11.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP18-7.5	5/1/2008	7.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP18-10	5/1/2008	10	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP19-7	5/1/2008	7	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP20-8	5/1/2008	8	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP21-7.5	5/2/2008	7.5	2.1	-	-	<0.005	0.006	0.028	0.012	0.065	-
GP21-15.5	5/2/2008	15.5	<1.0	-	-	<0.005	0.0064	0.022	0.0057	0.027	-
GP21-19.5	5/2/2008	19.5	<1.0	-	-	<0.005	<0.005	0.0092	<0.005	0.023	-
GP22-10.5	5/2/2008	10.5	1,100	-	-	<0.20	0.67	13	15	70	-
GP22-15.5	5/2/2008	15.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
GP23-7.5	5/2/2008	7.5	53	-	-	<0.005	<0.050	0.13	<0.050	0.37	-
GP23-11.5	5/2/2008	11.5	1.9	-	-	<0.005	0.062	0.041	0.043	0.18	-
GP23-16	5/2/2008	16	2	-	-	<0.005	<0.005	0.027	0.018	0.099	-
GP24-8.5	5/2/2008	8.5	3,600	-	-	<1.0	1.2	32	62	410	-
GP24-19.5	5/2/2008	19.5	<1.0	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
AEI-3-7'	7/25/2011	7	1,200	1,700	4,000	<10	2.6	25	10	48	-
AEI-3-15'	7/25/2011	15	<1.0	1.6	<5.0	<10	<0.005	<0.005	<0.005	<0.005	-
AEI-4-7'	7/25/2011	7	5,100	2,100	710	<50	6.2	83.0	54.0	280.0	-
AEI-4-15'	7/25/2011	15	1.2	1.3	<5.0	<0.05	0.029	0.071	0.031	0.17	-
AEI-6-7'	7/25/2011	7	470	10,000	24,000	<5.0	<0.50	<0.50	<0.50	<0.50	-
AEI-6-14'	7/25/2011	14	<1.0	1.4	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	-
AEI-7-7'	7/25/2011	7	100	6,300	14,000	-	-	-	-	-	-
AEI-7-13'	7/25/2011	13	<1.0	3.7	7.4	<5.0	<0.50	<0.50	<0.50	<0.50	-
AEI-8-7'	7/25/2011	7	<1.0	720	2,900	-	-	-	-	-	-
AEI-8-14'	7/25/2011	14	<1.0	<1.0	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	-
AEI-10-8'	7/26/2011	8	<1.0	1.2	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	-
AEI-11-3'	7/26/2011	3	<1.0	2.2	8.5	-	-	-	-	-	-
AEI-12-3'	7/26/2011	3	<1.0	2.6	<5.0	-	-	-	-	-	-
AEI-13-3'	7/26/2011	3	<1.0	4.2	<5.0	-	-	-	-	-	-

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TPH, MBTEX and POG

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AEI-14-7'	7/26/2011	7	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-15-7'	7/26/2011	7	<1.0	-	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-16-7'	7/26/2011	7	<1.0	1.4	<5.0	-				-	<50
AEI-17-8'	7/26/2011	8	<1.0	1.1	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-18-8'	7/26/2011	8	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
AEI-19-8'	7/26/2011	8	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	-
DPE-1, 7-7.5	11/15/2011	7	1,800	330	46	<50	9.7	64	29	150	-
DPE-2, 8-8.5	11/15/2011	8	2,200	280	140	<15	7.6	57	34	170	-
DPE-3, 8-8.5	11/14/2011	8	2,000	1,000	58	<50	6.7	48	47	240	-
RL	-	-	1.0	1.0	5.0	0.05	0.005	0.005	0.005	0.005	50

mg/kg = milligrams per kilogram (equivalent to parts per million)

RL= reporting limit (with no dilution)- see laboratory reports for sample specific dilution factors

MDL = method detection limit

POG = petroleum oil and grease

TPH = total petroleum hydrocarbons

MTBE = methyl butyl tertiary ethyl

TPH-g = TPH as gasoline

"<" = less than

TPH-d = TPH as diesel

"*" = with silica gel cleanup

TPH-mo = TPH as motor oil

"-" = not available

Table 2
Soil Sample Analytical Data
VOCs, Fuel Oxygenates, SVOCs, and PCBs
 AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	Approx. Depth (feet)	1,4-Dioxane (mg/kg) <i>EPA Method SW8260</i>	All target VOCs (mg/kg) <i>EPA Method SW8260</i>	Fuel Oxygenates^ (mg/kg) <i>EPA Method SW8260B</i>	All target SVOCs (mg/kg) <i>EPA Method 8270</i>	All other target PCBs (mg/kg) <i>EPA Method SW8082</i>
GP1-11.5	4/29/2008	11.5	-	-	<MDL	-	-
GP1-15	4/29/2008	15	-	-	<MDL	-	-
GP2-11	4/29/2008	11	-	-	<MDL	-	-
GP2-13.5	4/29/2008	13.5	-	-	<MDL	-	-
GP3-6.75	4/29/2008	6.75	-	-	<MDL	-	-
GP3-11.5	4/29/2008	11.5	-	-	<MDL	-	-
GP4-11.5	4/29/2008	11.5	-	-	<MDL	-	-
GP4-14.5	4/29/2008	14.5	-	-	<MDL	-	-
GP5-11.5	4/29/2008	11.5	-	-	<MDL	-	-
GP5-19	4/29/2008	19	-	-	<MDL	-	-
GP6-11	4/29/2008	11	-	-	<MDL	-	-
GP7-8	4/30/2008	8	-	-	<MDL	-	-
GP7-19.5	4/30/2008	19.5	-	-	<MDL	-	-
GP8-8.5	5/1/2008	8.5	-	-	<MDL	-	-
GP8-19.5	5/1/2008	19.5	-	-	<MDL	-	-
GP9-7.5	5/1/2008	7.5	-	-	<MDL	-	-
GP9-11.25	5/1/2008	11.25	-	-	<MDL	-	-
GP10-7.5	4/30/2008	7.5	-	-	<MDL	-	-
GP10-19.5	4/30/2008	19.5	-	-	<MDL	-	-
GP11-6	4/30/2008	6	-	-	<MDL	-	-
GP11-15.5	4/30/2008	15.5	-	-	<MDL	-	-
GP11-18	4/30/2008	18	-	-	<MDL	-	-
GP12-7.5	4/30/2008	7.5	-	-	<MDL	-	-
GP12-11	4/30/2008	11	-	-	<MDL	-	-
GP12-15.5	4/30/2008	15.5	-	-	<MDL	-	-
GP13-7.25	4/30/2008	7.25	-	-	<MDL	-	-
GP13-11	4/30/2008	11	-	-	<MDL	-	-
GP13-14	4/30/2008	14	-	-	<MDL	-	-
GP14-7.5	4/30/2008	7.5	-	-	<MDL	-	-
GP14-11	4/30/2008	11	-	-	<MDL	-	-
GP15-7.5	4/30/2008	7.5	-	-	<MDL	-	-
GP16-7.5	5/1/2008	7.5	-	-	<MDL	-	-
GP16-10.5	5/1/2008	10.5	-	-	<MDL	-	-
GP17-7.5	5/1/2008	7.5	-	-	<MDL	-	-
GP17-11.5	5/1/2008	11.5	-	-	<MDL	-	-

Table 2
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VOCs, Fuel Oxygenates, SVOCs, and PCBs
 AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	Approx. Depth (feet)	1,4-Dioxane (mg/kg) <i>EPA Method SW8260</i>	All target VOCs (mg/kg) <i>EPA Method SW8260</i>	Fuel Oxygenates^ (mg/kg) <i>EPA Method SW8260B</i>	All target SVOCs (mg/kg) <i>EPA Method 8270</i>	All other target PCBs (mg/kg) <i>EPA Method SW8082</i>
GP18-7.5	5/1/2008	7.5	-	-	<MDL	-	-
GP18-10	5/1/2008	10	-	-	<MDL	-	-
GP19-7	5/1/2008	7	-	-	<MDL	-	-
GP20-8	5/1/2008	8	-	-	<MDL	-	-
GP21-7.5	5/2/2008	7.5	-	-	<MDL	-	-
GP21-15.5	5/2/2008	15.5	-	-	<MDL	-	-
GP21-19.5	5/2/2008	19.5	-	-	<MDL	-	-
GP22-10.5	5/2/2008	10.5	-	-	<MDL	-	-
GP22-15.5	5/2/2008	15.5	-	-	<MDL	-	-
GP23-7.5	5/2/2008	7.5	-	-	<MDL	-	-
GP23-11.5	5/2/2008	11.5	-	-	<MDL	-	-
GP23-16	5/2/2008	16	-	-	<MDL	-	-
GP24-8.5	5/2/2008	8.5	-	-	<MDL	-	-
GP24-19.5	5/2/2008	19.5	-	-	<MDL	-	-
AEI-3-10'	7/25/2011	10	-	-	-	-	<1.0
AEI-4-10'	7/25/2011	10	-	-	-	-	<0.25
AEI-6-10'	7/25/2011	10	-	-	-	-	<0.05
AEI-7-11'	7/25/2011	11	-	-	-	-	<0.50
AEI-8-11'	7/25/2011	11	-	-	-	-	<0.05
AEI-11-3'	7/26/2011	3	-	<MDL	-	-	-
AEI-12-3'	7/26/2011	3	-	<MDL	-	-	-
AEI-13-3'	7/26/2011	3	-	<MDL	-	-	-
AEI-14-7'	7/26/2011	7	-	-	<MDL	-	-
AEI-15-7'	7/26/2011	7	-	-	<MDL	-	-
AEI-16-7'	7/26/2011	7	<0.02	<MDL	<MDL	<MDL	<0.05
RL	-	-	0.02	varies	varies	varies	0.05

mg/kg = milligrams per kilogram (equivalent to parts per million)

RL= reporting limit (with no dilution)- see laboratory reports for sample specific dilution factors

MDL = method detection limit

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PCBs = polychlorinated biphenyls

"<" = less than

"-" = not available

^ = fuel oxygenates tert-amyl methyl ether (TAME), t-butyl alcohol (TBA), 1,2-dibromomethane (EDB), 1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol, ethanol, ethyl tert-butyl ether (ETBE), methyl tert-butyl ether (MTBE), and 1,2-Dichloroethane (EDC)

Table 3
Groundwater Sample Analytical Data
TPH, MBTEX and TRPH

AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) <i>EPA Method SW8021B/8015Bm</i>	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) <i>EPA Method E418.1</i>
HP-1	4/23/1993	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	-
HP-2	4/23/1993	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	-
EB3-WSIA	10/15/1993	120,000	-	-	-	9,600	20,000	3,400	14,000	-
EB5-WSIA	10/15/1993	83,000	-	-	-	3,900	15,000	3,100	13,000	-
EB8-WS1	1/21/1997	25,000	-	-	<80	2,600	3,200	780	3,600	-
EB10-WS1	1/21/1997	81,000	-	-	<370	13,000	12,000	3,300	8,000	-
EB11-WS1	1/21/1997	49,000	-	-	<180	6,900	6,000	2,100	4,600	-
EB12-WS1	1/21/1997	38,000	-	-	110	1,400	1,400	1,800	7,400	-
P1-WS1	1/21/1997	74,000	-	-	<78	1,100	5,800	3,800	18,000	-
P2-WS1	1/21/1997	6,800	-	-	<10	2,200	290	310	560	-
P3-WS1	1/21/1997	220	-	-	<5.0	1.9	17	10	49	-
GP1W	4/29/2008	70,000	-	-	<500	6,800	6,600	2,300	12,000	-
GP2W	4/29/2008	910	-	-	<5.0	0.69	2.9	30	64	-
GP3W	4/29/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
GP4W	4/29/2008	46,000	-	-	<500	570	3,200	1,500	7,500	-
GP5W	4/29/2008	12,000	-	-	<60	140	480	270	1,100	-
GP6W	4/29/2008	22,000	-	-	<170	920	1,600	900	3,500	-
GP7W	4/30/2008	22,000	-	-	<180	2,600	320	810	2,600	-
GP8W	5/1/2008	140,000	-	-	<650	9,000	20,000	4,300	21,000	-

Table 3
Groundwater Sample Analytical Data
TPH, MBTEX and TRPH

AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) <i>EPA Method SW8021B/8015Bm</i>	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) <i>EPA Method E418.1</i>
GP9W	5/1/2008	550	-	-	<5.0	53	0.52	2.1	25	-
GP10W	4/30/2008	11,000	-	-	<100	1,900	490	480	770	-
GP11W	4/30/2008	42,000	-	-	<452	1,900	4,200	1,700	7,600	-
GP12W	4/30/2008	61,000	-	-	<500	4,500	11,000	1,700	7,700	-
GP13W	4/30/2008	6,200	-	-	<10	220	53	150	440	-
GP14W	4/30/2008	300	-	-	<5.0	46	1.9	19	11	-
GP15W	4/30/2008	<50	-	-	<5.0	<0.5	0.69	<0.5	1.1	-
GP16W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
GP17W	5/1/2008	<50	-	-	<5.0	<0.5	1.7	<0.5	2	-
GP18W	5/1/2008	<50	-	-	<5.0	<0.5	2.1	0.79	4	-
GP19W	5/1/2008	85	-	-	<5.0	<0.5	0.80	<0.5	<0.5	-
GP20W	5/1/2008	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
GP21W	5/2/2008	9,400	-	-	<50	560	1,400	260	1,300	-
GP22W	5/2/2008	3,900	-	-	<25	36	160	120	610	-
GP23W	5/2/2008	16,000	-	-	<90	830	1,900	540	2,600	-
GP24W	5/2/2008	110,000	-	-	<450	6,500	4,200	3,100	13,000	-
AEI-1-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
AEI-2-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
AEI-3-W	7/25/2011	11,000	12,000	29,000	<50	1,100	1,900	210	860	-
AEI-4-W	7/25/2011	200,000	25,000	19,000	<500	21,000	30,000	3,600	16,000	-

Table 3
Groundwater Sample Analytical Data
TPH, MBTEX and TRPH

AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	TPH-g (µg/L)	TPH-d* (µg/L)	TPH-mo* (µg/L)	MTBE (µg/L) <i>EPA Method SW8021B/8015Bm</i>	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TRPH (µg/L) <i>EPA Method E418.1</i>
AEI-5-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
AEI-6-W	7/25/2011	18,000	120,000	300,000	<50	<5.0	7.7	<5.0	28	-
AEI-7-W	7/25/2011	280	11,000	28,000	-	-	-	-	-	-
AEI-8-W	7/25/2011	<50	1,600	3,800	-	-	-	-	-	-
AEI-9-W	7/25/2011	<50	<50	<250	-	-	-	-	-	-
AEI-10-W	7/26/2011	<50	<50	400	-	-	-	-	-	-
AEI-14-W	7/26/2011	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-15-W	7/26/2011	<50	-	-	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-16-W	7/26/2011	<50	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0
AEI-17-W	7/26/2011	<50	89	590	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-18-W	7/26/2011	<50	<100	<500	<5.0	<0.5	<0.5	<0.5	<0.5	-
AEI-19-W	7/26/2011	<50	<100	<500	<5.0	<0.5	<0.5	<0.5	<0.5	-
RL	-	50	50	250	5.0	<0.5	<0.5	<0.5	0.5	1.0

µg/L = micrograms per liter

TPH = total petroleum hydrocarbons

TPH-g = TPH as gasoline

TPH-d = TPH as diesel

TPH-mo = TPH as motor oil

MTBE = methyl tertiary butyl ether

"*" = with silica gel cleanup

"-" = not available

"<" = less than

MDL = method detection limit

TRPH = total recoverable petroleum hydrocarbons

RL= reporting limit (with no dilution)- see laboratory reports for sample specific dilution factors

MTBE and BTEX analysis for AEI-16-W performed by EPA Method SW8260B

Table 4
Groundwater Sample Analytical Data
VOCs, Fuel Oxygenates, SVOCs, and PCBs
 AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	1,4-Dioxane (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	MTBE (µg/L)	Fuel Oxygenates^ (µg/L)	All Target VOCs (µg/L)	All Target SVOCs (µg/L)	All Target PCBs (µg/L)
		<i>EPA Method SW8260B</i>						<i>EPA Method 8270</i>	<i>EPA Method SW8082</i>	
GP1W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-
GP2W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP3W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP4W	4/29/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-
GP5W	4/29/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP6W	4/29/2008	-	24	<5.0	<5.0	<5.0	<MDL	-	-	-
GP7W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-
GP8W	5/1/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-
GP9W	5/1/2008	-	7.7	<0.5	1.1	1.2	<MDL	-	-	-
GP10W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-
GP11W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-
GP12W	4/30/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-
GP13W	4/30/2008	-	8.9	<0.5	<0.5	<0.5	<MDL	-	-	-
GP14W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP15W	4/30/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP16W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP17W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP18W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP19W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP20W	5/1/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-
GP21W	5/2/2008	-	<2.0	0.65	<0.5	<0.5	<MDL	-	-	-

Table 4
Groundwater Sample Analytical Data
VOCs, Fuel Oxygenates, SVOCs, and PCBs
 AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	1,4-Dioxane	TBA	EDB	EDC	MTBE	Fuel Oxygenates [^]	All Target VOCs	All Target SVOCs	All Target PCBs	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
		<i>EPA Method SW8260B</i>								<i>EPA Method 8270</i>	<i>EPA Method SW8082</i>
GP22W	5/2/2008	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-	
GP23W	5/2/2008	-	<20	<5.0	<5.0	<5.0	<MDL	-	-	-	
GP24W	5/2/2008	-	75	<5.0	<5.0	<5.0	<MDL	-	-	-	
AEI-14-W	7/26/2011	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-	
AEI-15-W	7/26/2011	-	<2.0	<0.5	<0.5	<0.5	<MDL	-	-	-	
AEI-16-W	7/26/2011	<2.0	<2.0	<0.5	<0.5	<0.5	<MDL	<MDL	<MDL	<0.5	
RL	-	2.0	<2.0	<0.5	<0.5	<0.5	varies	varies	varies	0.5	

mg/kg = milligrams per kilogram (equivalent to parts per million)

RL= reporting limit (with no dilution)- see laboratory reports for sample specific dilution factors

MDL = method detection limit

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PCBs = polychlorinated biphenyls

TBA = t-butyl alcohol

EDB = 1,2-dibromomethane

EDC = 1,2-dichloroethane

MTBE = methyl tert-butyl ether

"-" = not available

"<" = less than

"^" = fuel oxygenates tert-amyl methyl ether (TAME),

1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol, ethanol, and ethyl tert-butyl ether (ETBE)

Table 5
Soil Sample Analytical Data
Metals

AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	Approx. Depth (feet)	Cd	Cr (total)*	Pb	Ni	Zn
			mg/kg	mg/kg	mg/kg <i>EPA Method SW6010B</i>	mg/kg	mg/kg
AEI-11-3'	7/26/2011	3	<1.5	60	<5.0	24	16
AEI-12-3'	7/26/2011	3	<1.5	31	<5.0	15	10
AEI-13-3'	7/26/2011	3	<1.5	29	<5.0	14	9.7
AEI-14-7'	7/26/2011	7	-	-	<5.0	-	-
AEI-15-7'	7/26/2011	7	-	-	<5.0	-	-
AEI-16-7'	7/26/2011	7	<1.5	54	<5.0	48	27
AEI-17-8'	7/26/2011	8	-	-	<5.0	-	-
AEI-18-8'	7/26/2011	8	-	-	<5.0	-	-
AEI-19-8'	7/26/2011	8	-	-	<5.0	-	-
RL	-	-	1.5	1.5	5.0	1.5	5.0

Notes:

mg/kg = milligrams per kilogram

"-" = not available

RL= reporting limit (with no dilution)- see laboratory reports for sample specific dilution factors

Cd = Cadmium Ni = Nickel

Cr = Chromium Zn = Zinc

Pb = Lead

Table 6
Groundwater Sample Analytical Data
Metals

AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Sample ID	Date Collected	Cd µg/L	Cr (total) µg/L	Pb µg/L <i>EPA Method E200.8</i>	Ni µg/L	Zn µg/L
AEI-14-W*	7/26/2011	-	-	21	-	-
AEI-15-W*	7/26/2011	-	-	66	-	-
AEI-16-W**	7/26/2011	<0.25	<0.5	<0.5	8.7	<5.0
RL	-	0.25	0.5	0.5	0.5	5.0

Notes:

µg/L = micrograms per liter

RL= reporting limit (with no dilution)- see laboratory reports for sample specific dilution factors

"-" = not available

"*" = total

"**" = dissolved

Cd = Cadmium

Ni = Nickel

Cr = Chromium

Zn = Zinc

Pb =Lead

Table 7
Well Construction Details
 AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, CA

Well ID Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
AS-1	11/14/2011	-	PVC	25	25	8	2	20 - 25	0.020	20 - 25	#3 Sand
DPE-1	11/15/2011	-	PVC	16	15	10	4	7 - 15	0.010	6.5 - 16	#2/12 Sand
DPE-2	11/15/2011	-	PVC	16	15	10	4	7 - 15	0.010	6.5 - 16	#2/12 Sand
DPE-3	11/14/2011	-	PVC	16	14	10	4	7 - 14	0.010	6.5 - 16	#2/12 Sand
MW-1	1/15/1987	-	PVC	-	20	8	2	5 - 20	-	-	-
MW-2	1/15/1987	-	PVC	-	20	8	2	5 - 20	-	-	-
MW-3	1/15/1987	-	PVC	-	20	8	2	5 - 20	-	-	-
MW-4	4/20/1994	-	PVC	-	23	8	2	8 - 23	-	-	-
MW-5	4/20/1994	-	PVC	-	22	8	2	7 - 22	-	-	-
VP-1	12/6/2011	-	Stainless Steel	6	6	1.25	1/4	5.1 - 5.6	Mesh	4.7 - 6	#30 Sand
VP-2	12/6/2011	-	Stainless Steel	5.9	5.9	1.25	1/4	5.1-5.6	Mesh	4.7-5.9	#30 Sand
VP-3	12/6/2011	-	Stainless Steel	5.75	5.75	1.25	1/4	5.1-5.6	Mesh	4.7-5.75	#30 Sand

PVC = polyvinyl chloride
 TOC = top of casing
 "-" = not available

Table 8
Groundwater Elevation Data

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (<i>ft amsl</i>)	Depth to Water (<i>ft</i>)	Groundwater Elevation (<i>ft amsl</i>)
MW-1 (5 - 20 feet bgs)	Jul-89	104.76	8.93	95.83
	Apr-91		7.59	97.17
	Jul-92		8.72	96.04
	Aug-92		9.09	95.67
	Sep-92		9.25	95.51
	Oct-92		9.34	95.42
	Nov-92		9.21	95.55
	Dec-92		9.26	95.50
	Jan-93		7.81	96.95
	Feb-93		7.32	97.44
	Mar-93		7.20	97.56
	Apr-93		7.31	97.45
	May-93		8.29	96.47
	Jul-93		8.30	96.46
	Oct-93		9.38	95.38
	Jan-94		8.80	95.96
	Apr-94		8.15	96.61
	Jul-94		8.70	96.06
	Oct-94		9.37	95.39
	Jan-94		7.18	97.58
	Apr-95		6.76	98.00
	Jan-97		7.03	97.73
	Nov-98		8.10	96.66
	Jan-01		7.70	97.06
	Jun-02		7.30	97.46
	Nov-02		8.14	96.62
	Feb-03		6.87	97.89
Jun-03		7.05	97.71	
Apr-08	25.42	7.13	18.29	
Jun-11		7.54	17.88	
Dec-11			8.02	17.40
MW-2 (5 - 20 feet bgs)	Jul-89	104.86	9.24	95.62
	Apr-91		8.01	96.85
	Jul-92		9.03	95.83
	Aug-92		9.34	95.52
	Sep-92		9.46	95.40
	Oct-92		9.52	95.34
	Nov-92		9.42	95.44
	Dec-92		9.47	95.39
	Jan-93		8.25	96.61
	Feb-93		7.85	97.01
	Mar-93		7.77	97.09
	Apr-93		7.86	97.00
	May-93		8.20	96.66
	Jul-93		8.72	96.14
	Oct-93		9.64	95.22
	Jan-94		9.12	95.74
	Apr-94		8.56	96.30
Jul-94		9.02	95.84	
Oct-94		9.59	95.27	
Jan-94		7.71	97.15	
Apr-95		7.40	97.46	

Table 8
Groundwater Elevation Data

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl)	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MW-2 (continued)	Jan-97		7.55	97.31
	Nov-98		8.49	96.37
	Jan-01		8.08	96.78
	Jun-02		7.77	97.09
	Nov-02		8.50	96.36
	Feb-03		7.38	97.48
	Jun-03		7.57	97.29
	Apr-08	25.52	7.67	17.85
	Jun-11		7.35	18.17
	Dec-11		8.41	17.11
MW-3 (5 - 20 feet bgs)	Jul-89	104.52	9.00	95.52
	Apr-91		8.06	96.46
	Jul-92		8.82	95.70
	Aug-92		9.05	95.47
	Sep-92		9.09	95.43
	Oct-92		9.15	95.37
	Nov-92		9.05	95.47
	Dec-92		9.12	95.40
	Jan-93		8.18	96.34
	Feb-93		7.98	96.54
	Mar-93		7.94	96.58
	Apr-93		8.02	96.50
	May-93		7.69	96.83
	Jul-93		8.65	95.87
	Oct-93		9.32	NC
	Jan-94		8.93	NC
	Apr-94		8.52	96.00
	Jul-94		8.86	95.66
	Oct-94		9.25	95.27
	Jan-94		7.85	96.67
	Apr-95		7.64	96.88
	Jan-97		7.75	96.77
	Nov-98		8.38	96.14
	Jan-01		8.00	96.52
	Jun-02		7.81	96.71
	Nov-02		8.37	96.15
	Feb-03		7.48	97.04
	Jun-03		7.67	96.85
	Apr-08	25.17	7.74	17.43
	Jun-11		7.50	17.67
Dec-11		8.25	16.92	
MW-4 (8 - 23 feet bgs)	Apr-94	104.86	9.29	95.57
	Jul-94		9.55	95.31
	Oct-94		9.83	95.03
	Jan-94		8.88	95.98
	Apr-95		8.80	96.06
	Jan-97		-	-
	Nov-98		-	-
	Jan-01		-	-
	Jun-02		-	-
	Nov-02		-	-

Table 8
Groundwater Elevation Data

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID (Screen Interval)	Date Collected	Well Elevation (<i>ft amsl</i>)	Depth to Water (<i>ft</i>)	Groundwater Elevation (<i>ft amsl</i>)
MW-4 (continued)	Feb-03		-	-
	Jun-03		-	-
	Apr-08	25.53	8.73	16.80
	Jun-11		8.52	17.01
	Dec-11		-	-
MW-5 (7 - 22 feet bgs)	Apr-94	103.62	8.27	95.35
	Jul-94		8.50	95.12
	Oct-94		8.92	94.70
	Jan-94		7.61	96.01
	Apr-95		8.48	95.14
	Jan-97		6.79	96.83
	Nov-98		8.12	95.50
	Jan-01		7.67	95.95
	Jun-02		7.61	96.01
	Nov-02		8.01	95.61
	Feb-03		7.22	96.40
	Jun-03		7.43	96.19
	Apr-08	24.31	7.36	16.95
	Jun-11		7.43	16.88
	Dec-11		-	-
DPE-1 (7 - 15 feet bgs)	Dec-11		8.81	-
DPE-2 (7 - 15 feet bgs)	Dec-11		9.29	-
DPE-3 (7 - 15 feet bgs)	Dec-11		7.92	-

ft amsl = feet above mean sea level

All water level depths are measured from the top of casing

"-" = not measured

bgs = below ground surface

Table 9
Groundwater Monitoring Analytical Data
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	TPH-g (µg/L)	EPA Methods 8020, 8021B, or 8260B					MTBE (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	EPA Method 8260B			ETBE (µg/L)	Methanol (µg/L)	Lead (µg/L)
			Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	1,2-DCA (µg/L)						DIPE (µg/L)	Ethanol (µg/L)				
MW-3	10/27/1994	9,500	a	2,700	230	320	640	-	-	-	-	-	-	-	-	-	-	
	1/26/1995	5,900	a	1,900	290	230	500	-	-	-	-	-	-	-	-	-	-	
	4/13/1995	10,000	a	3,300	620	360	930	-	-	-	-	-	-	-	-	-	-	
	7/21/1995	9,900	a	3,300	320	390	830	-	-	-	-	-	-	-	-	-	-	
	10/25/1995	13,000	a	4,900	400	580	990	-	-	-	-	-	-	-	-	-	-	
	1/21/1997	7,600	a	2,600	310	330	660	<20	-	-	-	-	-	-	-	-	-	
	11/12/1998	31,000	a	11,000	750	1,500	2,300	<900	-	-	-	-	-	-	-	-	-	
	1/16/2001	23,000	a	8,200	260	1,000	820	<30	-	<30	<150	<30	<30	<30	-	<30	-	-
	6/27/2002	39,000	a	7,000	1,800	690	4,000	-	<5	<5.0	<5.0	<5.0	6.1	<5.0	-	<5.0	-	-
	11/18/2002	15,000	a	5,700	76	1,000	150	-	<12	-	-	<12	<12	-	-	-	-	-
	2/20/2003	26,000	a	6,300	1,100	1,300	1,900	-	<5.0	-	-	<5.0	<5.0	-	-	-	-	-
	6/11/2003	37,000	a	7,100	2,300	2,000	3,600	-	<25	-	-	<25	<25	-	-	-	-	-
	4/3/2008	4,100	a	760	96	250	130	<50	<2.5	<2.5	<10	<2.5	<2.5	<2.5	<250	<2.5	<2,500	<0.5
	6/23/2011	6,500	a	2,100	210.0	560	310	-	<50	<50	<200	-	-	<50	-	<50	-	-
	12/6/2011	4,800	a	1,600	<50	260	<50	-	<50	<50	<200	-	-	<50	-	<50	-	-
	1/21/1987	10,287		1,428	3,281	610	2,761	-	-	-	-	-	-	-	-	-	-	-
	1/11/1989	5,300		1,800	340	150	160	-	-	-	-	-	-	-	-	-	-	-
	7/12/1989	7,800		3,100	900	300	480	-	-	-	-	-	-	-	-	-	-	-
	4/9/1991	9,400		1,400	730	200	510	-	-	-	-	-	-	-	-	-	-	-
	7/14/1992	17,000		3,500	390	390	260	-	-	-	-	-	-	-	-	-	-	-
	10/7/1992	9,200		4,300	470	390	610	-	-	-	-	-	-	-	-	-	-	-
	1/11/1993	2,000		740	29	58	28	-	-	-	-	-	-	-	-	-	-	-
	4/23/1993	6,500	a	2,600	280	260	190	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	5,200	a	2,100	260	250	180	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	11,000	a	3,500	580	430	370	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	6,200	a	2,500	270	160	28	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	5,300	a	1,700	190	210	180	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	5,900	a	2,000	360	260	330	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	8,000	a	2,200	580	260	170	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	3,700	a	1,200	150	150	190	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	4,000	a	1,400	200	180	210	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	5,700	a	2,000	280	270	280	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	11,000	a	3,500	1,100	460	680	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	2,200	a	860	63	71	80	<5	-	-	-	-	-	-	-	-	-	-
	11/12/1998	180	d	44	0.51	<0.5	0.92	<20	-	-	-	-	-	-	-	-	-	-
	1/16/2001	64	a	11	0.77	<0.5	<0.5	-	<5	<1.0	<5.0	<1.0	1.4	<1.0	-	<1.0	-	-
	6/27/2002	<50		<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-
	11/18/2002	110	a	21	1	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	2/20/2003	<50		2.5	<0.5	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	6/11/2003	<50		<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	4/3/2008	7,600	a	2,400	58	250	170	<100	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<500	<5.0	<5,000	<0.5
	6/23/2011	1,300	a	560	21	86	150	-	<12	<12	<50	-	-	<12	-	<12	-	-
	12/6/2011	1,800	a	620	28	22	46	-	<17	<17	<67	-	-	<17	-	<17	-	-

Table 9
Groundwater Monitoring Analytical Data
 AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	TPH-g (µg/L)		EPA Methods 8020, 8021B, or 8260B				MTBE (µg/L)	EPA Method 8260B									
				Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)		MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)	Methanol (µg/L)	Lead (µg/L)
DPE-1	12/6/2011	9,200	a	1,800	570	460	1,100	-	<50	<50	<200	-	-	<50	-	<50	-	-
DPE-2	12/6/2011	22,000	a	2,100	3,300	650	3,300	-	<100	<100	<400	-	-	<100	-	<100	-	-
DPE-3	12/6/2011	6,400	a	550	560	180	1,000	-	<17	<17	<67	-	-	<17	-	<17	-	-

TPH-g= total petroleum hydrocarbons as gasoline

MTBE = Methyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

EDB = 1,2-Dibromoethane

1,2-DCA = 1,2-Dichloroethane

DIPE = Diisopropyl ether

ETBE = Ethyl tertiary butyl ether

µg/L = micrograms per liter (ppb)

a = Laboratory note indicates the unmodified or weakly modified gasoline is significant.

b = Laboratory note indicates heavier gasoline range compounds are significant (aged gas?).

c = Laboratory note indicates gasoline range compounds are significant with no recognizable pattern.

d = Laboratory note indicates that lighter gasoline range compounds (the most mobile fraction) are significant.

e = Laboratory note indicates that one to a few isolated non-targeted peaks are present.