October 7, 2005

PHASE II SUBSURFACE INVESTIGATION REPORT

1310 14th Street
Oakland, California

Project No. 11065

Prepared For

Heather Dennis
Hall Equities Group
1855 Olympic Blvd.
Walnut Creek, CA 94596

Prepared By

AEI Consultants
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AEI

AEI CONSULTANTS
ENVIRONMENTAL & CIVIL ENGINEERING

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October 7, 2005

Heather Dennis
Hall Equities group
1955 Olympic Blvd.
Walnut Creek, CA 94596

Subject: **Phase II Subsurface Investigation**
1310 14th Street
Oakland, California 94546
Project No. 12130

Dear Ms. Dennis:

The following letter report describes the activities and results of the subsurface investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). The scope of work for this investigation was designed to determine the extent of soil contamination and its impact on groundwater resulting from the hydrocarbon release from three (3) underground storage tanks (USTs) previously abandoned in place (Figures 2 and 3).

I Background

The subject property (hereafter referred to as the "site" or "property") is located at 1310 14th Street in Oakland, California (Figure 1: Site Location Map). The site is located in industrial area of Oakland. The site occupies the area between 16th and 14th Streets (International Drive) on the north and south, respectively and Poplar Street and Mandela Parkway on the east and west, respectively. The site, which is a former Carnation manufacturing facility, is currently vacant. Several large unused buildings are on the site, which is covered with asphalt and concrete surfacing. A 2004 investigation by Lowney Associates identified TPH-g, TPH-d, and TPH-mo near the abandoned USTs.

II Investigative Efforts

AEI performed the subsurface investigation at the property on September 12 and September 29, 2005. Prior to mobilization, AEI applied for a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA). The drilling permit number WR2005-2081 was approved by James Yoo on August 31, 2005. Underground Service Alert (USA) was notified more than two business days prior to the drilling to allow local utilities to be marked. Notification of the drilling schedule was made to the county. ACPWA inspector Johnson Tang visited the site during drilling operations to inspect and approve sealing procedures.

Eight (8) soil borings (SB-2, SB-3, SB-5, SB-6 and SB-7 through SB-10) were advanced to depths ranging from 15 to 19 feet below ground surface (bgs). The locations of the soil borings are shown on Figure 3. Soil borings SB-1 and SB-4 encountered refusal on concrete at a depth of 3 feet bgs.

Soil Sample Collection

The temporary borings were advanced with a Geoprobe® model 5410 direct-push drilling rig by EnProb, a licensed California drilling contractor (C57 – 777007).

A continuous sediment core was cut from the surface to sufficiently below the top of the water table to collect a groundwater sample. The cores were cut using an approximately 2-inch outer diameter sampling tube, which held in 1.75-inch diameter acrylic liners 4-feet in length. At least one sediment sample was retained from each 4-5 feet cored from above obviously wet sediments for possible chemical analysis. An adjacent sample was placed in a 1-quart zipper locking plastic bad and used for field screening. The samples were screened using a calibrated MiniRAE Plus Classic (Model PGM-76IS) photo ionization detector (PID). The tip of the PID was inserted into the 1-quart bag through a small diameter hole poked into the bag. The PID readings were recorded on the boring logs. The borings were logged by an AEI Professional Geologist using the Unified Soil Classification System (USCS). Copies of the boring logs, including depth of samples collected are included in Appendix B.

The soil samples retained for possible chemical analysis were sealed with Teflon® film and plastic end-caps. Each sample was labeled with at minimum, the company name and project number, a unique sample identifier, the sampler's name, and the time and date of the sample collection. The samples were placed in individual zipper locking bags and placed in a cooler with wet ice, pending transportation to the laboratory. The remainder of each core was examined and described by the AEI geologist. The cores are described in the boring logs that are included in Appendix A.

Groundwater Sample Collection

Groundwater samples were collected from the eight (8) soil borings that reached the groundwater. A new unused, ¾-inch PVC casing was placed in each boring to facilitate collection of the water samples. The casing consisted of 10-feet of 0.010-inch slotted casing and sufficient blank casing to rise above the ground surface. The water samples were collected using ¼-inch polyethylene tubing with a check valve on the bottom. Water samples were collected directly into one 1-liter amber bottle and three 40-milliliter (ml) volatile organic analysis vials (VOAs). Water entry into the soil borings was generally slow due to the presence of interstitial clay in the sand. Up to 30 to 60 minutes was required to collect a full liter bottle of groundwater analysis.

Each sample was labeled with at minimum, the company name and project number, a unique sample identifier, the sampler's name, and the time and date of the sample collection. The samples were placed in individual zipper locking bags and placed in a cooler with wet ice, pending transportation to the laboratory.

Boring Destruction

Following sample collection, the bottom cap on the casing in each boring was knocked off using a small diameter rod. The boring was then sealed to the surface with neat cement using the casing as a treamie pipe in accordance with ACPWA and State of California guidelines.

Laboratory Analysis

On May 19, 2005, the soil and groundwater samples were transported to McCampbell Analytical, Inc. (Department of Health Services Certification #1644) under chain of custody protocol. One soil and one groundwater sample from each boring were selected for chemical analysis. The results of soil and groundwater analyses are shown on Tables 1 and Table 2. Chain of custody documents and copies of the laboratory analytical reports are included in Appendix C

The selected soil samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), Methyl tertiary butyl ether (MTBE), benzene, toluene, ethylebenzene, and total xylenes (BTEX) by methods SW 8015Cm/8021B. Analysis was also performed for Total Petroleum Hydrocarbons as diesel (TPH-d) and Total Petroleum Hydrocarbons as motor oil (TPH-mo) by EPA method 8015C.

Groundwater samples were analyzed for TPH-g, MTBE, and BTEX by methods SW 8015 Cm/8021B. Analysis was also performed for TPH-d and TPH-mo by EPA method 8015C.

III Findings

Soil Analyses

No soil samples were collected from soil borings SB-1 and BS-4 due to direct push refusal. No detectable concentrations of TPH-g, TPH-d, TPH-mo, MTBE or BTEX, were reported in soil samples from borings SB-2, SB-3, SB-5, and SB-8 at or above laboratory method detection limits of 1.0 mg/kg, 1.0 mg/kg, 5.0 mg/kg, 0.05 mg/kg, and 0.005 mg/kg, respectively.

TPH-d and TPH-mo were reported in the soil sample from SB-7 at concentrations of 21 mg/kg and 130 mg/kg respectively. TPH-g, TPH-d and TPH-mo were reported in the soil sample from SB-9 at concentrations of 7.3 mg/kg, 34 mg/kg and 40 mg/kg respectively. TPH-g, benzene and ethylbenzene were reported in the soil sample from SB-10 at concentrations of 1.5 mg/kg, 0.018 mg/kg and 0.11 mg/kg, respectively.

The results of the soil analyses are summarized in Table 1: Soil Analytical Data and shown on Figure 3. Copies of the laboratory reports are attached as Appendix C.

Groundwater Analyses

No groundwater samples were collected from borings SB-1 or SB-4 due to direct push refusal. No TPH-g was detected in the groundwater sample analyzed from boring SB-6. No BTEX was detected in groundwater samples from soil borings SB-2, SB-3 and boring SB-5 through SB-8. The results of the groundwater analyses are as follows:

TPH-g, TPH-d, and TPH-mo were reported in boring SB-2 at concentrations of 65 µg/L, 1,400 µg/L, and 500 µg/L, respectively.

TPH-g, TPH-d, and TPH-mo were reported in boring SB-5 at concentrations of ND <50 µg/L, 240 µg/L, and 460 µg/L, respectively.

TPH-g, TPH-d, and TPH-mo were reported in boring SB-7 at concentrations of ND <50 µg/L, 9,900 µg/L, and 38,000 µg/L, respectively. The laboratory also reported light non-aqueous liquid (LNAPL) in the sample.

TPH-g, TPH-d, and TPH-mo were reported in boring SB-8 at concentrations of ND <50 µg/L, 640 µg/L, and 3,500 µg/L, respectively.

TPH-g, TPH-d, TPH-mo, and toluene were reported in boring SB-9 at concentrations of 350 µg/L, 5,000 µg/L, 5,400 µg/L, and 1.0 µg/L, respectively. The laboratory also reported light non-aqueous liquid (LNAPL) in the sample.

TPH-g, TPH-d, and TPH-mo were reported in boring SB-10 at concentrations of 1,400 µg/L, 440 µg/L, and ND <250 µg/L, respectively. BTEX was reported at concentrations of 2.3 µg/L, 0.87 µg/L, 130 µg/L, and 18 µg/L, respectively.

The results of the groundwater analyses are summarized in Table 2: Groundwater Sample Analytical Data and shown on Figures 4 and 5. Copies of the laboratory analytical reports and the chain of custody documentation are attached as Appendix C.

VI Conclusions

The results of soil analyses from a depth of 10 feet bgs indicate soil above the groundwater had not been significantly impacted. Based on the presence of LNAPL in the groundwater samples, soil immediately above and below the top of the groundwater is significantly impacted.

The groundwater in the area of AEI soil boring SB-10 and earlier borings EB-14 and EB-15 has been impacted by gasoline range hydrocarbon at concentrations above the Regional Water Quality Control Board (RWQCB) environmental screening level (ESL) of 500 µg/L for water not a potential source of drinking water.

The groundwater in the area of AEI soil borings SB-2, SB-7, SB-8, SB-9, and earlier borings EB-14 and EB-15 has been impacted by diesel range hydrocarbon at concentrations above the RWQCB ESL of 640 µg/L for water not a potential source of drinking water.

The groundwater in the area of AEI soil borings SB-7, SB-8, SB-9, and earlier borings EB-14 and EB-15 has been impacted by oil range hydrocarbon at concentrations above the RWQCB ESL of 640 µg/L for water not a potential source of drinking water.

VII Discussion

The sediment underlying the subject site is fine-grained well-sorted sand (Merritt Sand - MAP OF97-97). The sand contains abundant clay between the sand grains, which results in low transmissivity sand. One consequence of low transmissivity sand is slow or minimal movement of the impacted groundwater. This makes it unlikely that the impacted groundwater will migrate significantly. The absence of significant concentrations of volatile organic compounds (VOCs) suggests that no significant hazard to surface occupancy exist in the investigation area. From a strictly regulatory point of view, this and low transmissivity of the sand are supporting arguments for minimal action and monitored natural attenuation (MNA). The presence of LNAPLs and low transmissivity of the sediments mean that natural attenuation would be slow and require years to meet regulatory guidelines.

The available records indicate three (3) USTs in the investigation were abandoned in place. It is impossible to determine whether these USTs are currently contributing to the identified hydrocarbon plume. It also cannot be determined if removal of these tanks would have any beneficial impact on the hydrocarbon plume.

A variety of methods exist for remediation of the hydrocarbons impacting the groundwater. Two relatively simple methods, which require minimal disturbance of the site, are pump and treat or *in-situ* chemical oxidation. However, the fine clayey nature of the underlying sand places severe limits on the effectiveness of these potential remediation strategies.

The shallow depth of the groundwater makes another method feasible, excavation of impacted soil and removal of impacted groundwater within the excavation. This practical method is commonly used in conjunction with tank removals and has proven to be a very effective remediation strategy in many cases.

At the subject site the impacted groundwater appears to be localized between the covered loading dock and the eastern end of the abandoned USTs. Soil could be excavated to the top of the impacted soil and stock piled on site for reuse. Impacted soil (from 10 feet bgs to 13 or 14 feet bgs) would be excavated and stockpiled on site, pending characterization and disposal. Groundwater, which would collect in the resulting excavation, could be pumped out and properly

disposed of. Prior to backfilling a product such as oxygen release compound (ORC) could be added to accelerate natural biodegradation of any residual hydrocarbons.

The net effect excavation and water removal would have on any impacted groundwater or LNAPL beneath the elevated loading dock cannot be quantified, however it is expected that significant amounts of impacted groundwater would migrate from beneath the elevated loading dock into the excavation where it could be recovered.

VIII References

1. *Quaternary Geology of Alameda County, and Parts of Contra Costa, Santa Clara, San Mateo, San Francisco, Stanislaus, and San Joaquin Counties, California: A Digital Database Digital Data Base Open File 97-97*, by E.J. Helley and R.W. Graymer U.S.G.S.

2. *Phase I Environmental Site Assessment and Soil and Ground Water Quality Evaluation*, Lowney Associates, 2004

IX Report Limitation

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices, in the environmental engineering field, which existed at the time and location of the work.

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

Sincerely,

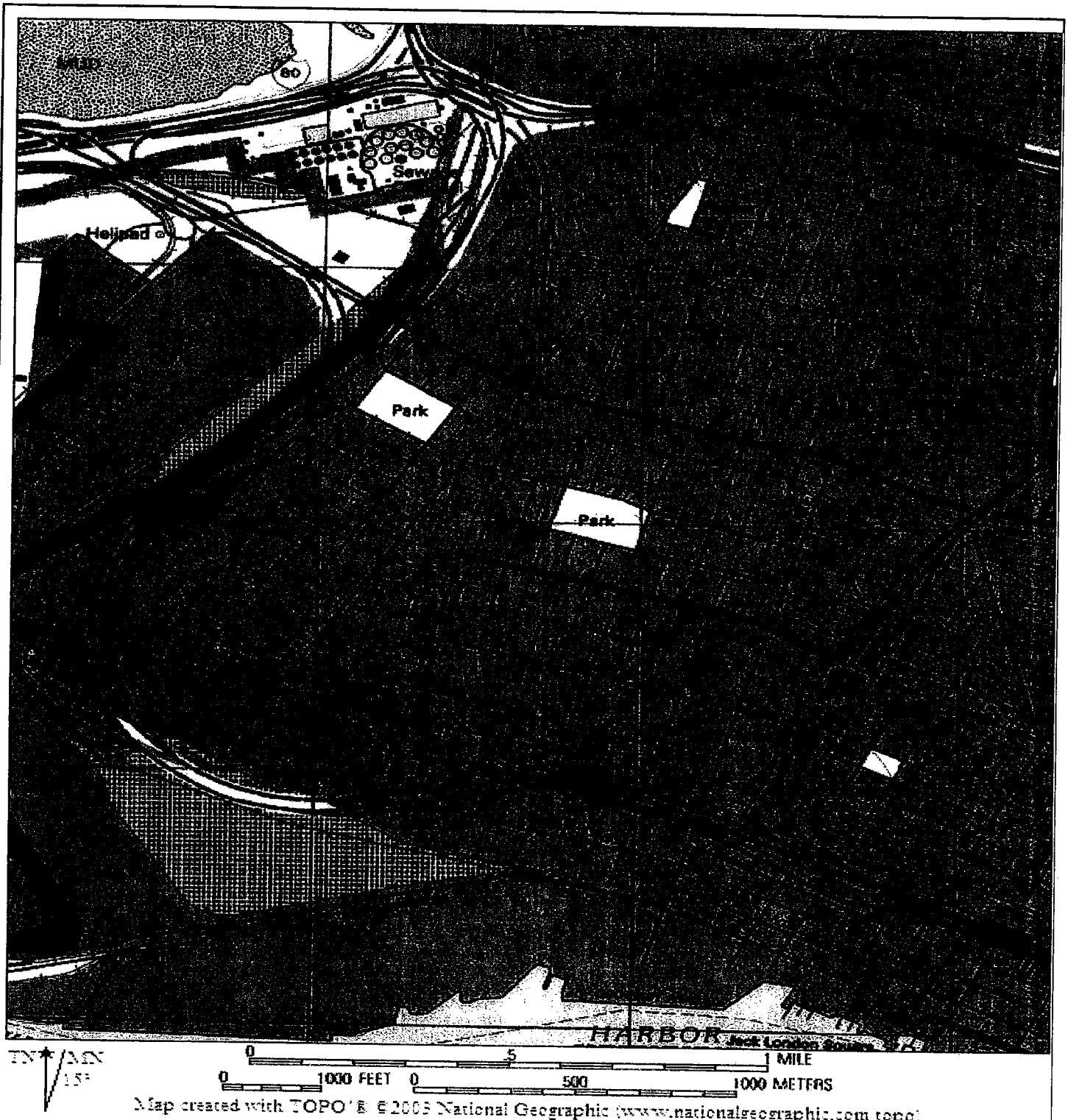
Richard Bradford
Senior Staff Engineer

Robert F. Flory, P.G.
Senior Project Geologist

Figures

Tables

FIGURES



Map created with TOPO! © 2003 National Geographic (www.nationalgeographic.com topo)

AEI CONSULTANTS

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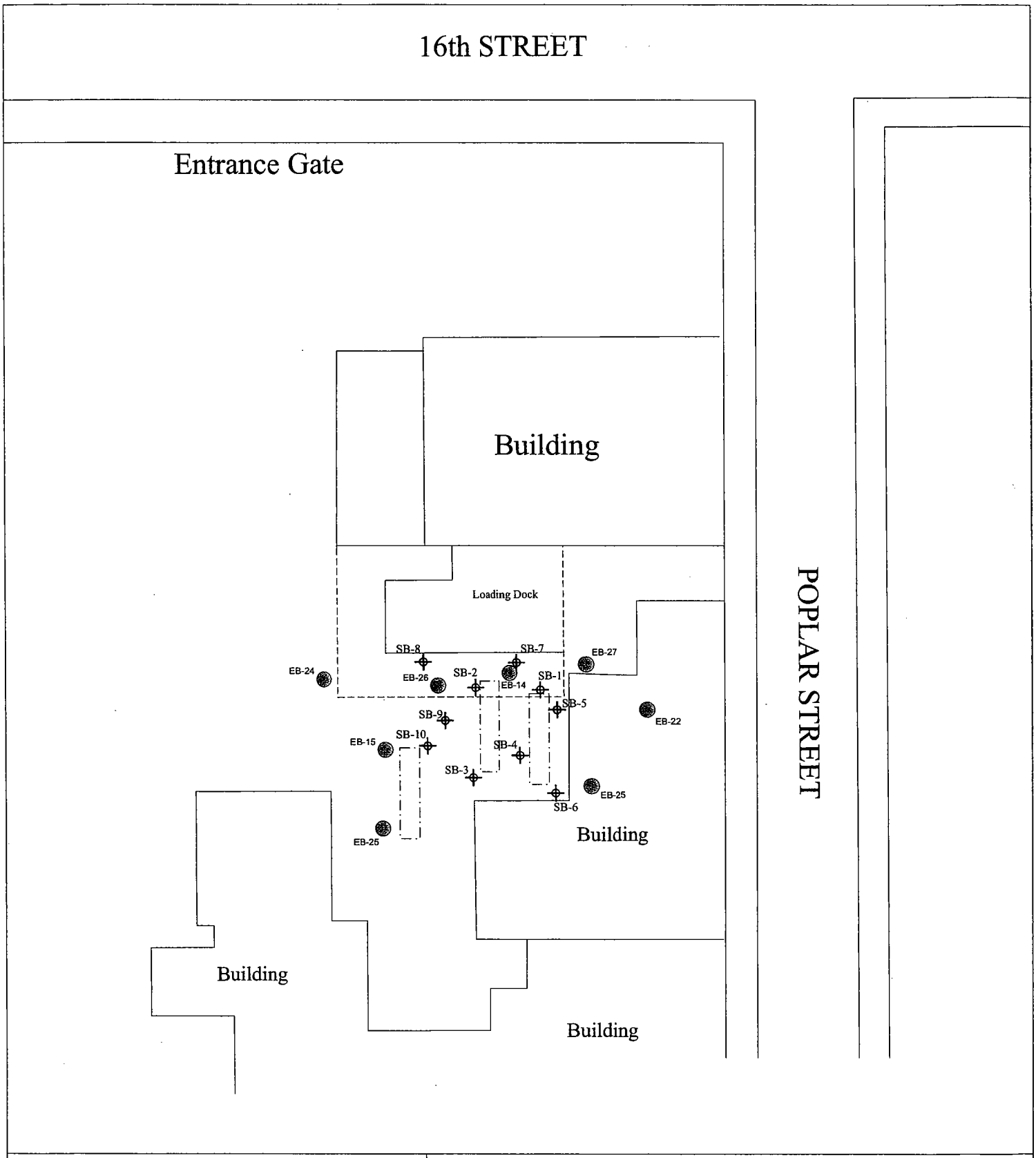
SITE LOCATION PLAN

1310 14th Street Oakland, Californis	**FIGURE 1** Job No: 12130



Soil Boring - AEI

Soil Boring - Lowney

0 10 20 30 40 50 60

AEI CONSULTANTS

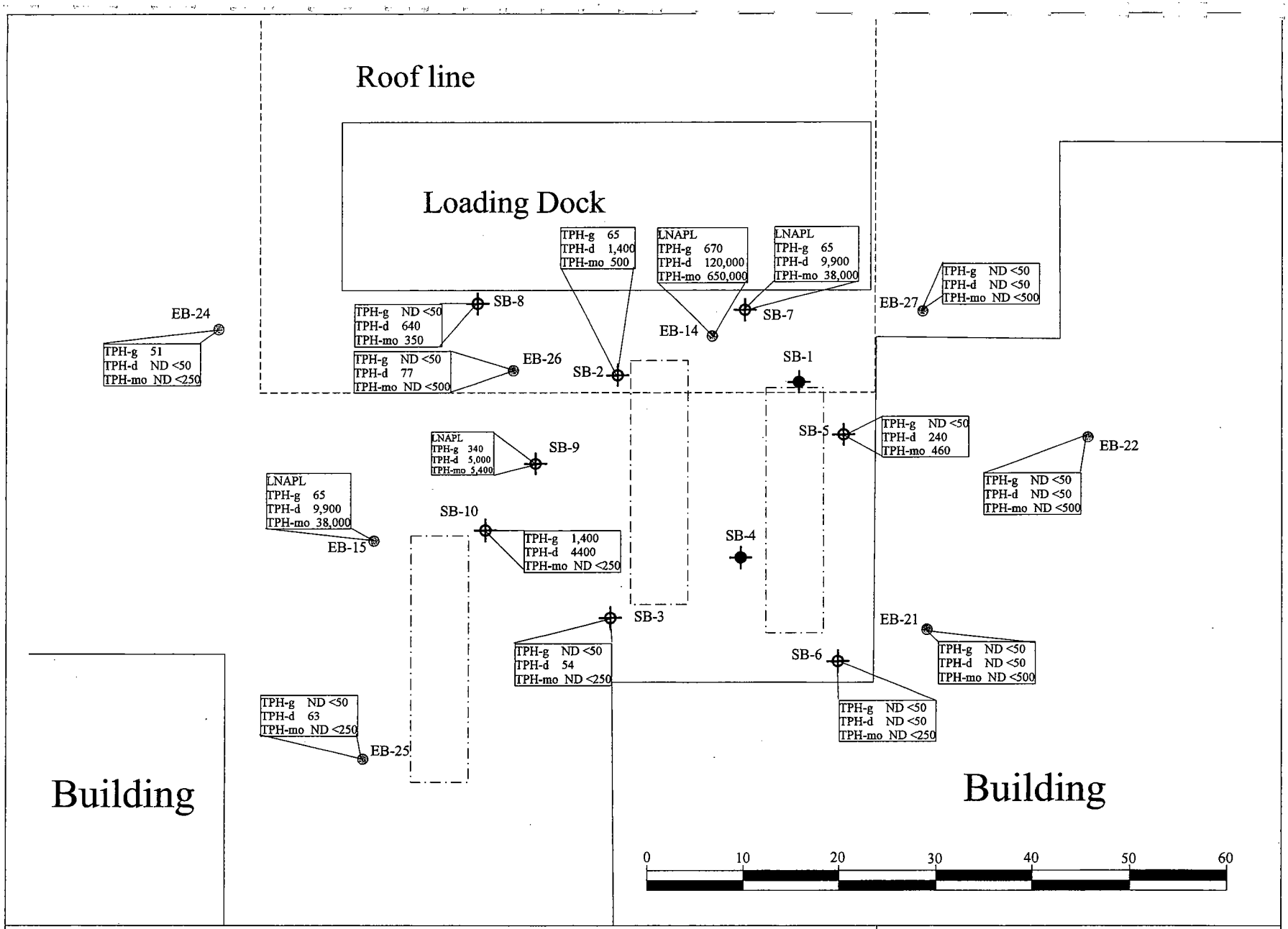
2500 CAMINO DIABLO, SUITE 100, WALNUT CREEK, CA

SITE PLAN

1310 16th AVENUE
OAKLAND, CALIFORNIA

FIGURE 2

Project No. 12130



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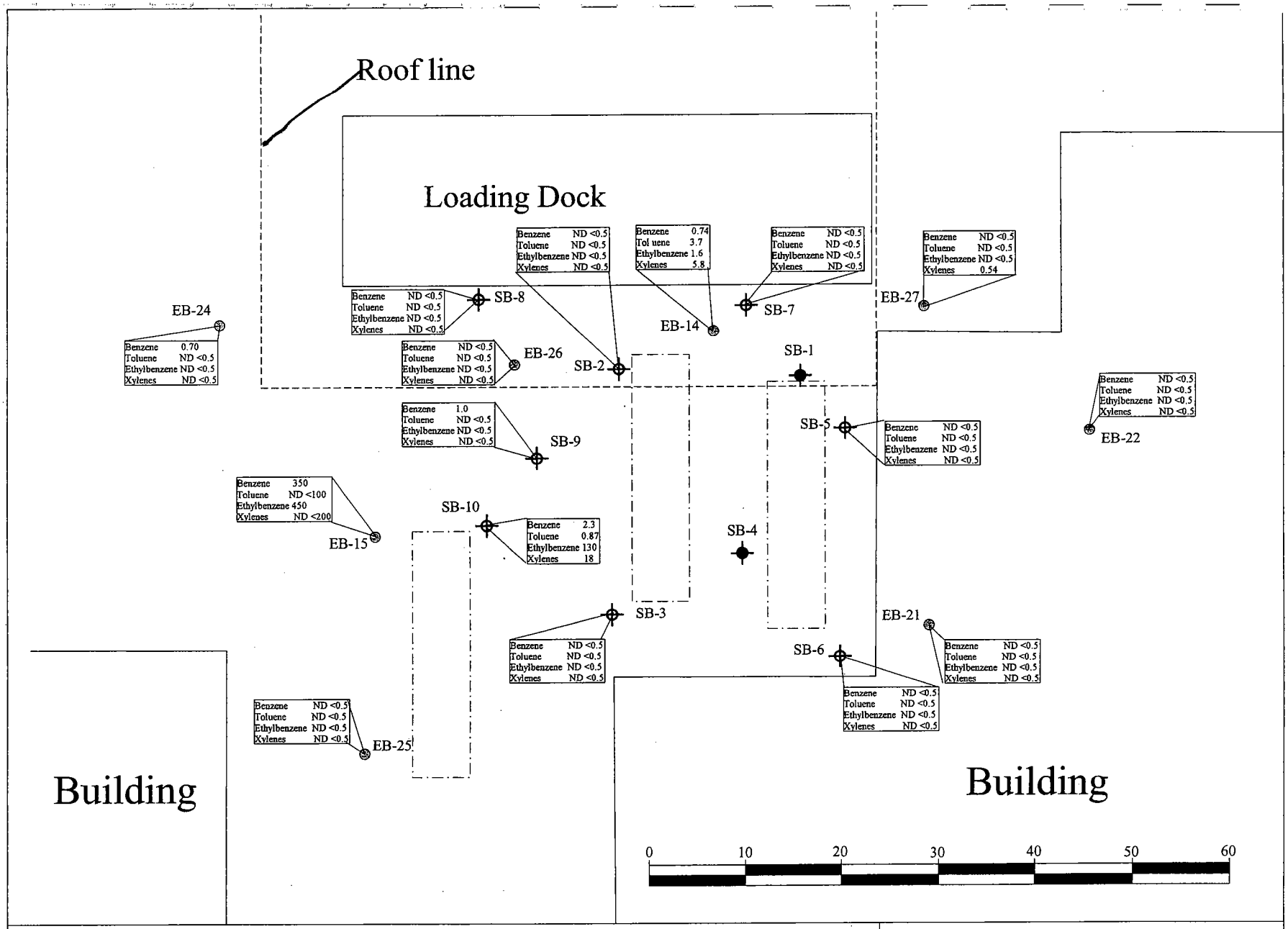
2500 CAMINO DIABLO, SUITE 100, WALNUT CREEKI, CA

TPH Concentrations in Groundwater

1310 14th STREET
OAKLAND, CALIFORNIA

FIGURE 3
Project No. 12130



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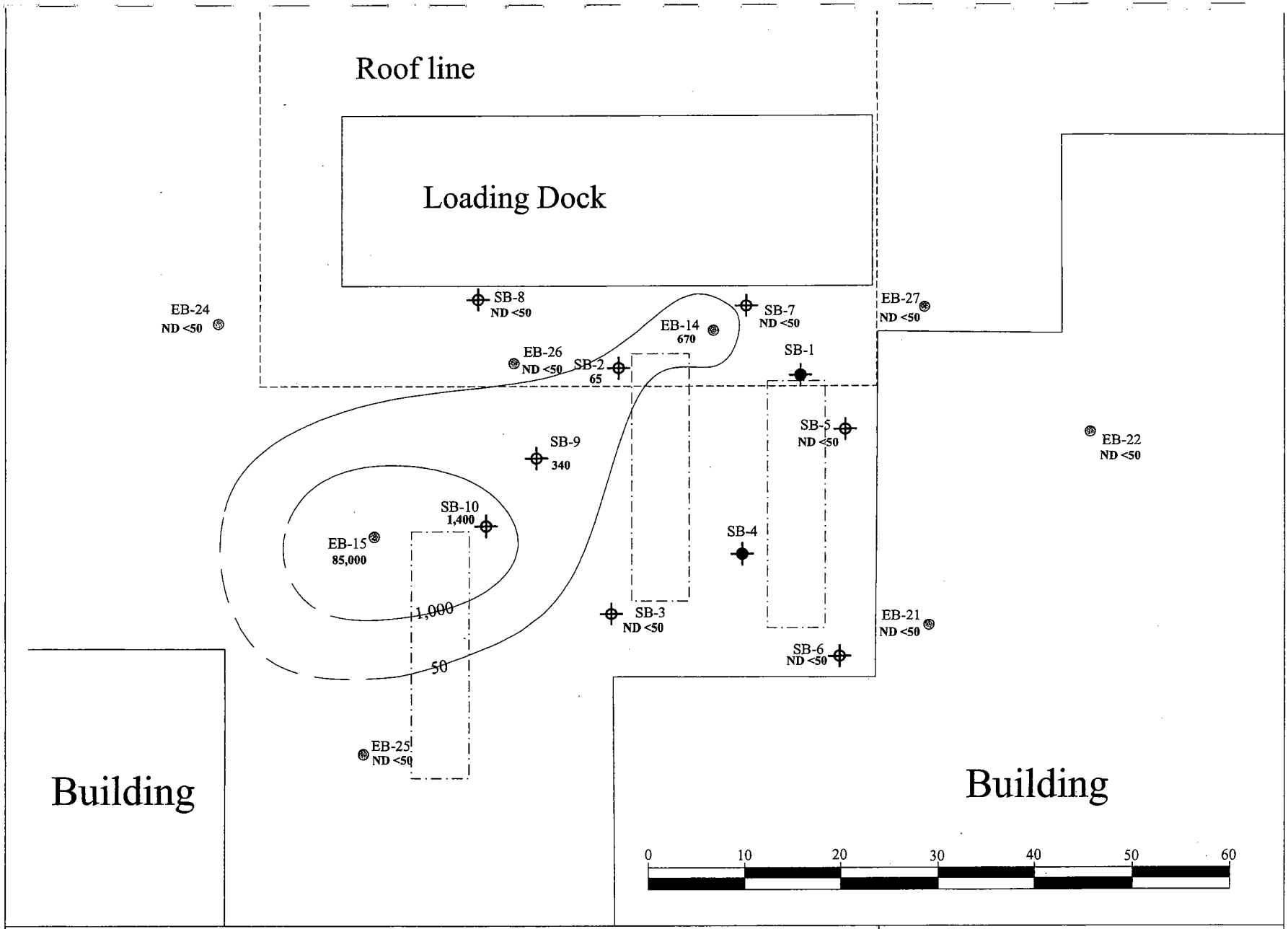
2500 CAMINO DIABLO, SUITE 100, WALNUT CREEKI, CA

BTEX Concentrations in Groundwater

1310 14th STREET
OAKLAND, CALIFORNIA

FIGURE 4
Project No. 12130



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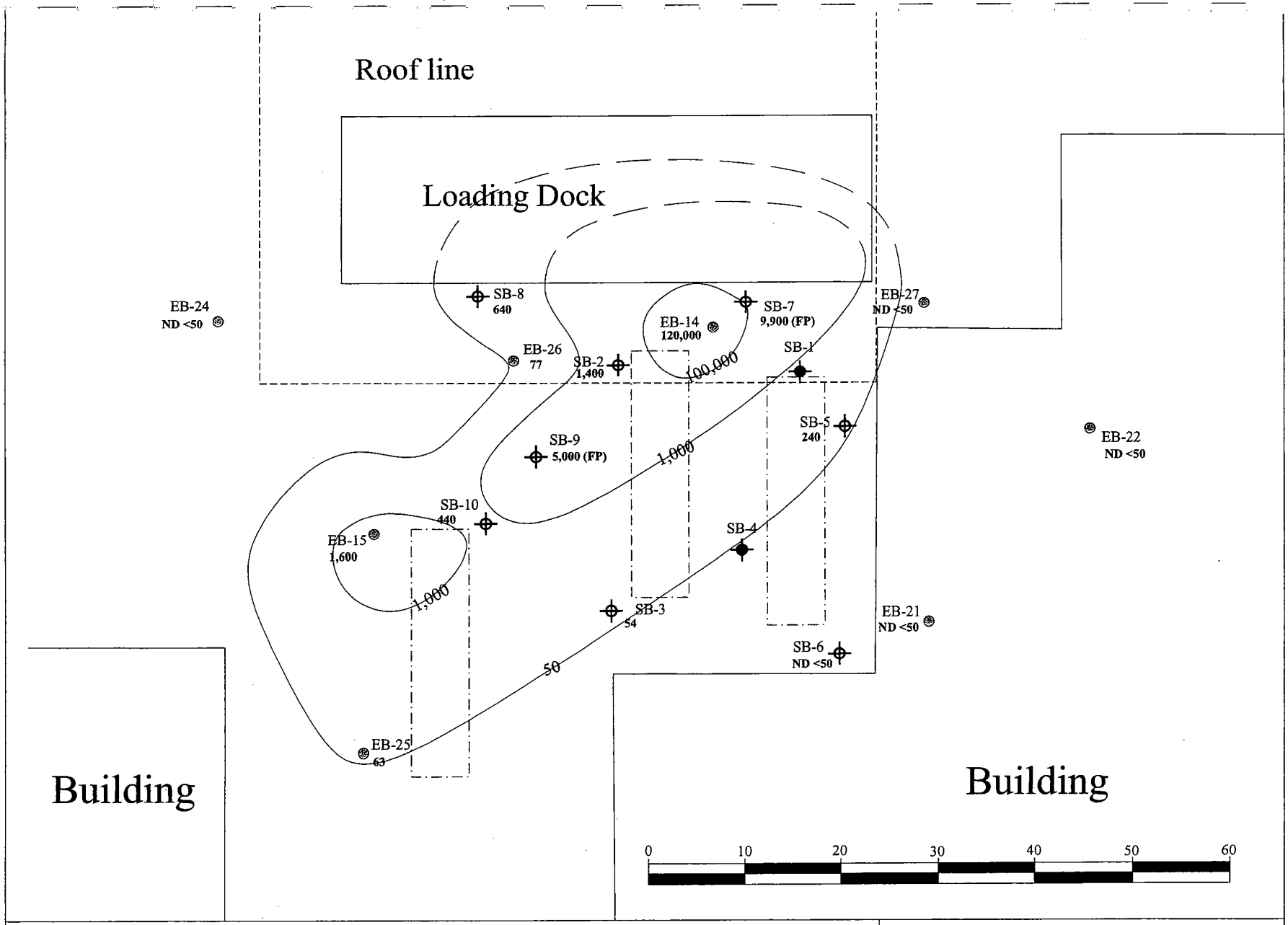
2500 CAMINO DIABLO, SUITE 100, WALNUT CREEKI, CA

TPH-g Isopleths in Groundwater

1310 14th STREET
OAKLAND, CALIFORNIA

FIGURE 5
Project No. 12130



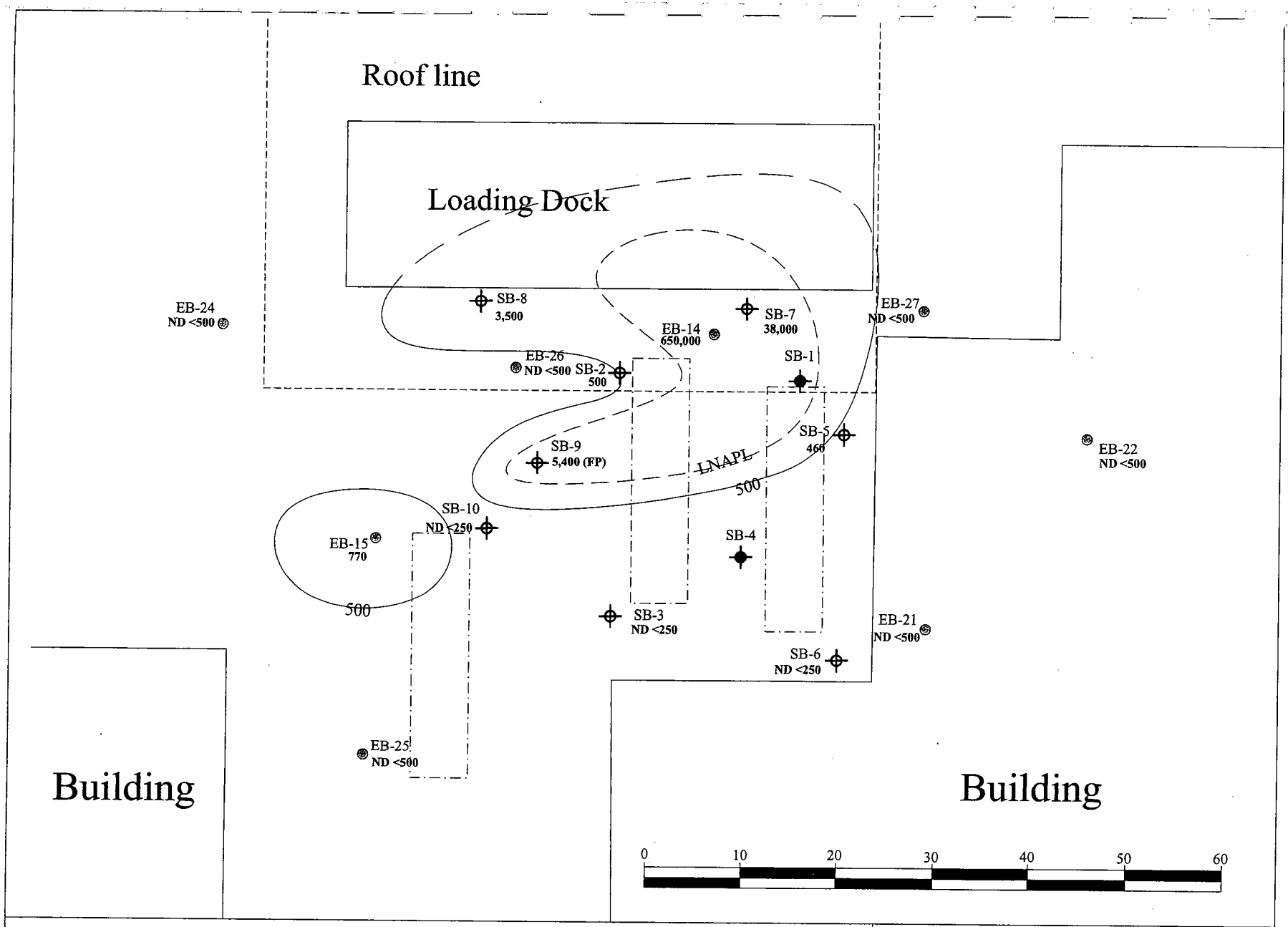
AEI CONSULTANTS

2500 CAMINO DIABLO, SUITE 100, WALNUT CREEKI, CA

TPH-d Groundwater Isopleths

1310 14th STREET
OAKLAND, CALIFORNIA

FIGURE 6
Project No. 12130



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2500 CAMINO DIABLO, SUITE 100, WALNUT CREEKI, CA

TPH-mo Concentrations in Groundwater

1310 14th STREET
OAKLAND, CALIFORNIA

FIGURE 7
Project No. 12130

TABLES

Table 1: Soil Analytical Data

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample ID	Sampling Date	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg
		(EPA method 8015C)			*(EPA method 8021B)*				
SB-1 & SB-1a	09/12/05	Shallow refusal, no soil samples			----	----	----	----	----
SB2-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB3-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-4 & SB-4a	09/12/05	Shallow refusal, no soil samples			----	----	----	----	----
SB5-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB6-10	09/12/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 7-10	09/29/05	ND<1.0	21	130	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 8-10	09/29/05	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 9-10	09/29/05	7.3	34	40	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB 10-10	09/29/05	1.5	ND<1.0	ND<5.0	ND<0.05	0.018	ND<0.005	0.11	0.016

TPH-g = Total petroleum hydrocarbons as gasoline
TPH-d = Total petroleum hydrocarbons as diesel
TPH-mo = Total petroleum hydrocarbons as motor oil
MTBE = methyl tertiary butyl ether
mg/kg = milligrams per kilogram

Table 2: Groundwater Analytical Data

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample ID	Sampling Date	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L
		(EPA method 8015C)			*(EPA method 8021B)*				
SB-1 & SB-1a	09/12/05	Shallow refusal, no water samples			----	----	----	----	----
SB-2-W19	09/12/05	65	1,400	500	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-3-W19	09/12/05	ND<50	54	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-4 & SB-4a	09/12/05	Shallow refusal, no water samples			----	----	----	----	----
SB-5-W19	09/12/05	ND<50	240	460	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-6-W19	09/12/05	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB 7- W	09/29/05	ND<50	9,900 [1]	38000	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-8 W	09/29/05	ND<50	640	350	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-9 W	09/29/05	340	5000 [1]	5400	ND<5.0	1.0	ND<0.5	ND<0.5	ND<0.5
SB-10 W	09/29/05	1400	440	ND<250	ND<5.0	2.3	0.87	130	18

1 = lighter than water immiscible sheen/product is present

TPH-g = Total petroleum hydrocarbons as gasoline
TPH-d = Total petroleum hydrocarbons as diesel
TPH-mo = Total petroleum hydrocarbons as motor oil
MTBE = methyl tertiary butyl ether
µg/L = micrograms per liter (ppb)

Table 3: Lowney Soil Analytical Data (2004)

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample ID	Sampling Date	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		(EPA method 8015C)			*(EPA method 8021B)*				
EB-14	02/10/04	2	3,700	21,000	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-15	02/10/04	610	230	300	ND<0.005	ND<0.005	ND<0.005	0.56	ND<0.005
EB-24	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-25	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-26	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
EB-27	02/17/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005

TPH-g = Total petroleum hydrocarbons as gasoline
TPH-d = Total petroleum hydrocarbons as diesel
TPH-mo = Total petroleum hydrocarbons as motor oil
MTBE = methyl tertiary butyl ether
µg/L = micrograms per liter (ppb)

Table 4: Lowney Groundwater Analytical Data (2004)

Hall Equities, 1310 14th Street (1310 16th Street) Oakland, CA

Sample ID	Sampling Date	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L
		(EPA method 8015C)			*(EPA method 8021B)*				
EB-14	02/10/04	670	120,000	650,000	ND<0.5	0.74	3.7	1.6	5.8
EB-15	02/10/04	85,000	1,600	770	ND<0.5	350	ND <100	450	ND <200
EB-21	02/12/04	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0
EB-22	02/12/04	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
EB-24	02/17/04	51	ND<50	ND<500	ND<5.0	0.70	ND<0.5	ND<0.5	ND<0.5
EB-25	02/17/04	ND<50	63	ND<500	ND<5.0	0.70	ND<0.5	ND<0.5	ND<0.5
EB-26	02/17/04	ND<50	77	ND<500	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
EB-27	02/17/04	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	0.54	ND<0.5

TPH-g = Total petroleum hydrocarbons as gasoline
TPH-d = Total petroleum hydrocarbons as diesel
TPH-mo = Total petroleum hydrocarbons as motor oil
MTBE = methyl tertiary butyl ether
µg/L = micrograms per liter (ppb)

APPENDIX A

Boring 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: 08/31/2005 By jamesy
Permits Issued: W2005-0847

Receipt Number: WR2005-2081
Permits Valid from 09/12/2005 to 10/01/2005

Application Id: 1125338878958
Site Location: 1310 16th Street (1310 14th)
Oakland, 64606

City of Project Site: Oakland

Project Start Date: 09/12/2005

Completion Date: 10/01/2005

Applicant: AEI Consultants - Robert Flory
2500 Camino Diablo, Ste 100, Walnut creek, CA 94597
Phone: 925-944-2899

Property Owner: Dennis Encinal 14th Street LLC
1855 Olympic Blvd, Ste 255, Walnut Creek, CA 94596
Phone: --

Client: Heather Hall Equities Group
1855 Olympic Blvd, Ste 250, Walnut Creek, CA 94596
Phone: 925-472-5626

Contact: Flory
Phone: 925-944-2899
Cell: 925-457-7517

Total Due: $200.00
Total Amount Paid: $200.00
Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 5 Boreholes
Driller: EnProb - Lic #: 777007 - Method: DP

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2005-0847	08/31/2005	12/11/2005	5	2.00 in.	12.00 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.

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. Applicant shall contact Johnson Tang for a inspection time at 510-670-6450 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.

4. 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.

APPENDIX B

Boring Logs

Project: Hall Equities
Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C
Project Number: 12130

Log of Boring SB-1

Sheet 1 of 1

Date(s) Drilled **September 12, 2005**	Logged By **Robert F. Flory**	Checked By **Jeremy A. Smith**
Drilling Method **Direct Push**	Drill Bit Size/Type	Total Depth of Borehole **3 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) **None**	Hammer Data
Borehole Backfill **Cement Slurry**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					SP		Concrete,	
						SP		Sand, white 10YR 8/1, fine grained, clean, loose sand, slightly moist	
						SP		Sand, very dark gray, 7.5YR 3/1, fine grained, clayey, moist	
								Sand, strong brown - brown 7.5YR 5/8 - 5/4, fine grained, clayey, moist	
								Refusal on concrete, bottom of boring	
	5								
	10								
	15								
	20								
	25								
	30								

Figure

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Project: Hall Equities Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C Project Number: 12130	**Log of Boring SB-2** Sheet 1 of 1

Date(s) Drilled **September 12, 2005**	Logged By **Robert F. Flory**	Checked By **Jeremy A. Smith**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **17 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **15.01 feet ATD, 9.7 feet after 2 hours**	Sampling Method(s) **Tube**	Hammer Data
Borehole Backfill **Cement Slurry**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					SP		Concrete,	
								Sand, dark yellowish brown 10YR 4/6, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
						SP		Sand, yellowish brown 10YR 5/6, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
	5		SB2-5			SP		Sand, dark gray 10YR 4/1, fine grained, slightly silty & clayey, moderately firm, slightly moist	
						SP		Sand, yellowish brown 10YR 5/6, fine grained, slightly silty & clayey, moderately firm, slightly moist	
						SP		Sand, dark gray 10YR 4/1, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
						SP		(after 2 hours) ▽	
	10		SB2-10					Sand, dark yellowish brown 10YR 4/6, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
			SB2-12					Sand, dark greenish gray - pale green 10GY 4/1-6/2, fine grained, slighly silty & clayey, loose - moderately firm, slightly moist	
	15		SB2-15					(ATD) ▽	
						SP		Sand, strong brown 7.5YR 5/8 - light olive brown 2.5Y 5/3 mottled, fine grained, slighly silty & clayey, moderately firm, wet	
								Bottom of Boring at 17 feet bgs	
	20								
	25								
	30								

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Figure

Project: Hall Equities
Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C
Project Number: 12130

Log of Boring SB-3

Sheet 1 of 1

Date(s) Drilled **September 12, 2005**	Logged By **Robert F. Flory**	Checked By **Jeremy A. Smith**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **14.5 feet ATD, 11.07 feet after 1 hour**	Sampling Method(s) **Tube**	Hammer Data
Borehole Backfill **Cement Slurry**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					SP		Concrete,	
								Sand, very dark grayish brown 10YR 3/2, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
						SP		Sand, dark grayish brown 10YR 3/3, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
						SP			
						SP		Sand, strong brown 7.5YR 5/8, fine grained, slightly clayey, moderately firm, slightly moiststst	
	5	☒	SB3-5					Sand, yellowish brown - dark yellowish brown 10YR 5/8-4/6, fine grained, slightly silty & clayey, moderately firm, slightly moist	
								Sand, dark greenish gray 10YR 4/1, fine grained, slightly silty & clayey, moderately firm, slightly moist	
	10		SB3-10			SP		Sand, dark greenish gray - greenish black 5G 4/1-2.5/1, fine grained, slighly silty & clayey, moderately firm, moist (after 1 hour) ▼	
								(ATD) ▽	
	15		SB2-15			SP		Sand, greenish gray - grayish green 5G 5/1-5/2 -, fine grained, slighly silty & clayey, moderately firm, wet	
						SP		Sand, yellow 10YR 7/8-6/6, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
	20							Bottom of Boring at 19 feet bgs	
	25								
	30								

Figure

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Project: Hall Equities Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C Project Number: 12130	**Log of Boring SB-4** Sheet 1 of 1

Date(s) Drilled **September 12, 2005**	Logged By **Robert F. Flory**	Checked By **Jeremy A. Smith**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **3 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured	Sampling Method(s) **None**	Hammer Data
Borehole Backfill **Cement Slurry**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					SP		Concrete,	
								Sand, grayish white, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
								Refusal on rusty steel, concrete filled UST?	
	5								
	10								
	15								
	20								
	25								
	30								

Figure

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Project: Hall Equities Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C Project Number: 12130	**Log of Boring SB-5** Sheet 1 of 1

Date(s) Drilled **September 12, 2005**	Logged By **Robert F. Flory**	Checked By **Jeremy A. Smith**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **Not Encountered ATD**	Sampling Method(s) **Tube**	Hammer Data
Borehole Backfill **Cement Slurry**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					SP		Concrete,	
								Sand, strong brown 7.5YR 5/8 - 4/6, fine grained, slightly silty & clayey, loose, slightly moist	
	5		SB2-5			SP		Sand, Strong brown 7.5YR 58-46 fine grained, slightly silty & clayey, soft - moderately firm, wet	
						SP		Sand, olive 5Y 4/6 - 2.5Y 6/4-5/4 mottled, fine grained, slightly silty & clayey, loderately firm, moist	
	10		SB2-10			SP		Sand, olive - dark greenish gray 5Y 4/3 - 10GY 4/1 - 5G 4/1, fine grained, slightly silty & clayey, moderately firm, moist	
			SB2-12						
	15		SB2-15			SP		Sand, olive - dark greenish gray 5Y 4/3 - 10GY 4/1 - 5G 4/1, fine grained, slightly silty & clayey, moderately firm, wet	
						SP		Sand, yellowish brown 10YR 5/4 with some strong brown 7.5YR 5/8 mottling, fine grained, slightly silty & clayey, moderately firm, wet	
						SP		Sand, yellowish brown 10YR 5/4 fine grained, slightly silty & clayey, moderately firm, wet	
	20							Bottom of Boring at 19 feet bgs	
	25								
	30								

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Figure

Project: Hall Equities Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C Project Number: 12130	**Log of Boring SB-6** Sheet 1 of 1

Date(s) Drilled **September 12, 2005**	Logged By **Robert F. Flory**	Checked By **Jeremy A. Smith**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **15.01 feet ATD, 9.7 feet after 2 hours**	Sampling Method(s) **Tube**	Hammer Data
Borehole Backfill **Cement Slurry**	Location	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0					SP		Concrete,	
								Sand, strong brown 7.5YR 5/8, fine grained, slightly silty & clayey, loose - moderately firm, slightly moist	
						SP		Sand, strong brown 7.5YR 4/6, fine grained, slightly silty & clayey, moderately firm, slightly moist	
	5		SB2-5						
						SP		Sand, strong brown 7.5YR 5/8, fine grained, slightly silty & clayey, loderately firm, moist	
						SP		Sand, brown 10YR 5/4, fine grained, slightly silty & clayey, moderately firm, moist (after 2 hours)	
	10		SB2-10						
			SB2-12			SP		Sand, brown 10YR 5/4, fine grained, slightly silty & clayey, moderately firm, wet	
						SP		Sand, yellowish brown 10YR 5/4 with some strong brown 7.5YR 5/8 mottling, fine grained, slightly silty & clayey, moderately firm, wet	
	15		SB2-15					(ATD)	
						SP		Sand, yellowish brown 10YR 5/4 with some strong brown 7.5YR 5/8 mottling, fine grained, slightly silty & clayey, moderately firm, wet	
						SP		Sand, yellowish brown 10YR 5/4, fine grained, slightly silty & clayey, moderately firm, wet	
	20							Bottom of Boring at 19 feet bgs	
	25								
	30								

Figure

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Project: Hall Equities Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C Project Number: 12130	**Log of Boring SB-7** Sheet 1 of 1

Date(s) Drilled **September 29, 2005**	Logged By **Ricky Bradford**	Checked By **Robert F. Flory**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **17.5 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **13.5 feet ATD, 9.9 feet after 2 hours**	Sampling Method(s) **None**	Well Permit
Borehole Backfill **Cement Slurry**	Location	

Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0					Concrete approx. 8" thick		
			SP		Sand, very dark grayish green GLEY1 3/5GY, fine grained, slightly silty & clayey, moderately firm, slightly moist		
			SP		Sand, yellowish borwn 10YR 5/6, fine grained, slightly silty & clayey, moderately firm, slightly moist	1.5	
5			SP		Sand, dark greenish grey GLEY1 4/5GY, fine grained, slightly silty & clayey, firm, moist	1.1	
10			SP		(after 2 hours) ▼ Sand, dark greenish grey GLEY1 4/5GY, fine grained, slightly silty & clayey, moderately firm, moist, slight oily odor	0.8	
			SP		(ATD) ▽ Sand, greenish grey GLEY1 5/5GY, fine grained, slightly silty & clayey, moderately firm, wet, slight oily odor		
15			SP		Sand, strong brown 7.5YR 5/6, fine grained, slightly silty & clayey, firm, wet		
					Bottom of Boring at 17.5 feet bgs		
20							

Figure

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Project: Hall Equities
Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C
Project Number: 12130

Log of Boring SB-8

Sheet 1 of 1

Date(s) Drilled **September 29, 2005**	Logged By **Ricky Bradford**	Checked By **Robert F. Flory**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **17.5 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **13.5 feet ATD, 10 feet after 2 hours**	Sampling Method(s) **None**	Well Permit.
Borehole Backfill **Cement Slurry**	Location	

Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0					Concrete approx. 8" thick		
			SP		Sand, very dark grayish green GLEY1 3/5GY, fine grained, slightly silty & clayey, moderately firm, slightly moist		
			SP		Sand, yellowish borwn 10YR 5/6, fine grained, slightly silty & clayey, moderately firm, slightly moist	1.5	
5			SP		Sand, dark greenish grey GLEY1 4/5GY, fine grained, slightly silty & clayey, firm, moist, slight decomposition odor	1.1	
10			SP		(after 2 hours) ▼ Sand, dark greenish grey GLEY1 4/5GY, fine grained, slightly silty & clayey, moderately firm, moist, slight decomposition odor	0.8	
			SP		(ATD) ▽ Sand, greenish grey GLEY1 5/5GY, fine grained, slightly silty & clayey, moderately firm, wet, slight decomposition odor		
15			SP		Sand, strong brown 7.5YR 5/6, fine grained, slightly silty & clayey, firm, wet		
					Bottom of Boring at 17.5 feet bgs		
20							

Figure

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Project: Hall Equities
Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C
Project Number: 12130

Log of Boring SB-9

Sheet 1 of 1

Date(s) Drilled **September 29, 2005**	Logged By **Ricky Bradford**	Checked By **Robert F. Flory**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **17 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **15.4 feet ATD, 10 feet after 2 hours**	Sampling Method(s) **None**	Well Permit.
Borehole Backfill **Cement Slurry**	Location	

Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0					Concrete approx. 8" thick		
			SP		Sand, dark grayish green GLEY1 4/5GY, fine grained, slightly silty & clayey, moderately firm, slightly moist		no petro odor
			SP		Sand, dark greenish grey GLEY1 4/5GY, fine grained, slightly silty & clayey, very firm, slightly moist	4.2	no petro odor
5							no petro odor
			SP		Sand, dark yellowish brown 10YR 4/6, fine grained, slightly silty & clayey, very firm, moist	39.5	slight petro odor
			SP		Sand, dark greenish grey GLEY1 4/5GY, fine grained, slightly silty & clayey, very firm, moist (after 2 hours) ▼	41	slight petro odor, free product observed bleeding from core sample
10			SP		Sand, dark greenish grey GLEY1 4/5GY, fine grained, slightly silty & clayey, moderately firm, wet, mottled w/ reddish yellow spots from 13' - 14'	8.5	no free product, petro odor diminishes, no petro odor
					(ATD) ▽		no petro odor
15							
					Bottom of Boring at 17 feet bgs		
20							

Figure

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Project: Hall Equities
Project Location: 1310 14th Ave, 1310 16th Ave, Oakland, C
Project Number: 12130

Log of Boring SB-10

Sheet 1 of 1

Date(s) Drilled **September 29, 2005**	Logged By **Ricky Bradford**	Checked By **Robert F. Flory**
Drilling Method **Direct Push**	Drill Bit Size/Type **2 inch**	Total Depth of Borehole **19.5 feet bgs**
Drill Rig Type **Geoprobe 5410**	Drilling Contractor **EnProb**	Approximate Surface Elevation
Groundwater Level and Date Measured **12 feet ATD, 10.9 feet after 2 hours**	Sampling Method(s) **None**	Well Permit.
Borehole Backfill **Cement Slurry**	Location	

Depth, feet	Sample Type	Sample Number	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	PID Reading, ppm	REMARKS AND OTHER TESTS
0					Concrete approx. 6" thick		
			SP		Non Native Sand, some gravel component, dark grayish green GLEY1 3/10Y, fine grained, moderately firm, slightly moist		slight petro odor
			SP		Non Native Sand, dark greenish grey GLEY1 3/10Y, fine grained, loose, slightly moist	202	
5			SP		Sand, dark yellowish brown 10YR 4/6, fine grained, slightly silty & clayey, very firm, moist	512	strong petro odor, visually stained soil
10			SP		Native sand, very dark greenish grey GLEY1 3/10GY, fine grained, firm, wet (after 2 hours) ▽	41	
			SP		(ATD) ▽	11.5	no petro odor
15			SP		Native sand, brown 10YR 4/3, fine grained, silty & clayey, very firm, wet		
20							

Figure

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APPENDIX C

Laboratory Analyses
With
Chain of Custody Documentation

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

AEI Consultants	Client Project ID: #12130; Hall Equities	Date Sampled: 09/12/05
2500 Camino Diablo, Ste. #200		Date Received: 09/13/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 09/13/05
	Client P.O.:	Date Analyzed: 09/14/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0509286

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	SB2-10	S	ND	ND	ND	ND	ND	ND	1	89
006A	SB3-10	S	ND	ND	ND	ND	ND	ND	1	90
009A	SB5-10	S	ND	ND	ND	ND	ND	ND	1	96
011A	SB6-10	S	ND	ND	ND	ND	ND	ND	1	96

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) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

_____Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #12130; Hall Equities	Date Sampled: 09/12/05
		Date Received: 09/13/05
	Client Contact: Robert Flory	Date Extracted: 09/13/05
	Client P.O.:	Date Analyzed: 09/14/05

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

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0509286

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0509286-002A	SB2-10	S	ND	ND	1	104
0509286-006A	SB3-10	S	ND	ND	1	103
0509286-009A	SB5-10	S	ND	ND	1	101
0509286-011A	SB6-10	S	ND	ND	1	104

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; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

_____Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0509286

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 17976 Spiked Sample ID: 0509285-001A

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	LCS / LCSD
TPH(btex)£	ND	0.60	109	106	2.92	109	108	0.686	70 - 130	70 - 130
MTBE	ND	0.10	94.3	91.1	3.53	96.3	89.5	7.35	70 - 130	70 - 130
Benzene	ND	0.10	91.1	89.3	1.97	94.2	89.3	5.35	70 - 130	70 - 130
Toluene	ND	0.10	90.3	88.5	1.94	93.6	88.6	5.43	70 - 130	70 - 130
Ethylbenzene	ND	0.10	93.9	92.3	1.72	95.2	92	3.50	70 - 130	70 - 130
Xylenes	ND	0.30	95	94.3	0.704	95	94	1.06	70 - 130	70 - 130
%SS:	103	0.10	102	100	2.18	102	101	0.985	70 - 130	70 - 130

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

NONE

BATCH 17976 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509286-002A	9/12/05 9:05 AM	9/13/05	9/14/05 9:02 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.

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 Certification No. 1644 _____QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0509286

EPA Method: SW8015C	Extraction: SW3550C				BatchID: 17991			Spiked Sample ID: 0509286-011a		
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	LCS / LCSD
TPH(d)	ND	20	94.9	93.4	1.59	104	104	0	70 - 130	70 - 130
%SS:	104	50	106	103	3.04	101	102	1.12	70 - 130	70 - 130

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

NONE

BATCH 17991 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509286-002A	9/12/05 9:05 AM	9/13/05	9/14/05 5:15 AM	0509286-006A	9/12/05 10:25 AM	9/13/05	9/14/05 6:23 AM
0509286-009A	9/12/05 11:50 AM	9/13/05	9/14/05 7:31 AM	0509286-011A	9/12/05 12:50 PM	9/13/05	9/14/05 8:40 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 Certification No. 1644 _____QA/QC Officer

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Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0509286

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 17992** **Spiked Sample ID: 0509286-011A**

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	LCS / LCSD
TPH(btex)£	ND	0.60	104	108	3.78	107	105	2.55	70 - 130	70 - 130
MTBE	ND	0.10	95	96	1.06	91.6	90.2	1.52	70 - 130	70 - 130
Benzene	ND	0.10	94	97.2	3.33	90.1	90.9	0.932	70 - 130	70 - 130
Toluene	ND	0.10	92.6	95.9	3.51	88.9	90.2	1.45	70 - 130	70 - 130
Ethylbenzene	ND	0.10	97.3	98.2	0.853	93.2	93.3	0.0857	70 - 130	70 - 130
Xylenes	ND	0.30	93	99.3	6.59	95	94.7	0.351	70 - 130	70 - 130
%SS:	96	0.10	105	104	0.957	101	103	1.96	70 - 130	70 - 130

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

NONE

BATCH 17992 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509286-006A	9/12/05 10:25 AM	9/13/05	9/14/05 9:32 PM	0509286-009A	9/12/05 11:50 AM	9/13/05	9/14/05 10:01 PM
0509286-011A	9/12/05 12:50 PM	9/13/05	9/14/05 10:31 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.

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 Certification No. 1644 _____QA/QC Officer

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0509286 **ClientID: AEL** **EDF: NO**

Requested TAT: 5 days

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

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: #12130; Hall Equities
PO:

Bill to:
Diane
All Environmental, Inc.
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Date Received: **09/13/2005**
Date Printed: **09/13/2005**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509286-002	SB2-10	Soil	9/12/05 9:05:00 AM	☐	A	A	A												
0509286-006	SB3-10	Soil	9/12/05 10:25:00	☐	A		A												
0509286-009	SB5-10	Soil	9/12/05 11:50:00	☐	A		A												
0509286-011	SB6-10	Soil	9/12/05 12:50:00	☐	A		A												

Test Legend:

1	G-MBTEX_S	2	PREDF REPORT	3	TPH(DMO)_S	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

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.

ael 0509286

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
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CHAIN OF CUSTODY RECORD

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

GeoTracker EDF ☒ PDF ☐ Excel ☒ Write On (DW) ☐

Report To: Robert Flory **Bill To:** Same

Company: AEI Consultants

2500 Camino Diablo, Suite 200
Walnut Creek, CA 94597 **E-Mail:** Rflory@aeiconsultants.com

Tel: (925) 944-2899, extension 1## **Fax:** (925) 944-2895

Project #: 12130 **Project Name:** Hall Equities

Project Location: 1310 14th 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
SB2-5		9/12/05	0857	1	2x5		X				✓			
SB2-10			0905	1			X				X			
SB2-12			0910	1			X				X			
SB2-15			0914	1			X				X			
SB3-5			1020	1			X				X			
SB3-10			1025	1			X				X			
SB3-15			1040	1			X				X			
SB5-5			1145	1			X				X			
SB5-10			1150	1			X				X			
SB6-5			1245	1			X				X			
SB6-10		↓	1250	1	↓		X							

Analysis Request	Other	Comments
BTEX & TPH as Gas (602/8020 + 8015)/MTBE; TPH as Diesel (8015); Total Petroleum Oil & Grease (5520 E&F/B&E); 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	Halogenated VOCs (8260B – 8010 Target List)	Filter Samples for Metals Analysis: Yes / No
X X		
X X		

Relinquished By:	Date:	Time:	Received By:
	9/13/05	11:15AM	
Relinquished By:	Date:	Time:	Received By:
	9/14/05	1PM	
Relinquished By:	Date:	Time:	Received By:

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

McCampbell Analytical, Inc.

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AEI Consultants	Client Project ID: #12130; Hall Equities	Date Sampled: 09/12/05
		Date Received: 09/13/05
2500 Camino Diablo, Ste. #200	Client Contact: Robert Flory	Date Extracted: 09/15/05-09/16/05
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 09/15/05-09/16/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0509268

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SB-2-W19	W	65,b,i	ND	ND	ND	ND	ND	1	108
002A	SB-3-W19	W	ND,i	ND	ND	ND	ND	ND	1	114
003A	SB-5-W19	W	ND,i	ND	ND	ND	ND	ND	1	111
004A	SB-6-W19	W	ND,i	ND	ND	ND	ND	ND	1	113

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.

DHS Certification No. 1644

_____Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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AEI Consultants	Client Project ID: #12130; Hall Equities	Date Sampled: 09/12/05
2500 Camino Diablo, Ste. #200		Date Received: 09/13/05
Walnut Creek, CA 94597	Client Contact Robert Flory	Date Extracted: 09/13/05
	Client P.O.	Date Analyzed: 09/13/05-09/14/

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

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0509268

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0509268-001B	SB-2-W19	W	1400,a,i	500	1	105
0509268-002B	SB-3-W19	W	54,b,i	ND	1	103
0509268-003B	SB-5-W19	W	240,g,b,i	460	1	102
0509268-004B	SB-6-W19	W	ND,i	ND	1	102

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	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 spirits; p) see Case Narrative.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509268

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 17962** **Spiked Sample ID: 0509259-011A**

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	LCS / LCSD
TPH(btex) £	ND	60	102	111	8.91	108	109	0.502	70 - 130	70 - 130
MTBE	ND	10	93.5	103	10.1	97.6	95.8	1.88	70 - 130	70 - 130
Benzene	ND	10	90.7	101	10.5	93.8	93.5	0.345	70 - 130	70 - 130
Toluene	ND	10	89.9	100	10.8	94.7	95.3	0.657	70 - 130	70 - 130
Ethylbenzene	ND	10	92	103	11.0	95.5	95.5	0	70 - 130	70 - 130
Xylenes	ND	30	87.7	103	16.4	95.7	99	3.42	70 - 130	70 - 130
%SS:	113	10	97	98	0.236	97	97	0	70 - 130	70 - 130

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

NONE

BATCH 17962 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509268-001A	9/12/05 9:50 AM	9/16/05	9/16/05 3:32 AM	0509268-002A	9/12/05 10:55 AM	9/15/05	9/15/05 6:58 AM
0509268-003A	9/12/05 12:00 PM	9/15/05	9/15/05 7:27 AM	0509268-004A	9/12/05 1:00 PM	9/15/05	9/15/05 7:57 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.

N/A = not applicable or 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 Certification No. 1644 _____QA/QC Officer

McCampbell Analytical, Inc.

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Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509268

EPA Method: SW8015C	Extraction: SW3510C			BatchID: 17977		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	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	98.4	99	0.575	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	102	103	0.943	N/A	70 - 130

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

NONE

BATCH 17977 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509268-001B	9/12/05 9:50 AM	9/13/05	9/13/05 11:45 PM	0509268-002B	9/12/05 10:55 AM	9/13/05	9/14/05 12:53 AM
0509268-003B	9/12/05 12:00 PM	9/13/05	9/14/05 2:02 AM	0509268-004B	9/12/05 1:00 PM	9/13/05	9/14/05 3:10 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.

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 Certification No. 1644 _____QA/QC Officer

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0509268 **ClientID: AEL** **EDF: NO**

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

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: #12130; Hall Equities
PO:

Bill to:
Diane
All Environmental, Inc.
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Requested TAT: 5 days

Date Received: **09/13/2005**
Date Printed: **09/13/2005**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509268-001	SB-2-W19	Water	9/12/05 9:50:00 AM	☐	A	A	B												
0509268-002	SB-3-W19	Water	9/12/05 10:55:00	☐	A		B												
0509268-003	SB-5-W19	Water	9/12/05 12:00:00	☐	A		B												
0509268-004	SB-6-W19	Water	9/12/05 1:00:00 PM	☐	A		B												

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3	TPH(DMO)_W	4		5	
6		7		8		9		10	
11		12		13		14		15	

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.

ORIG USC12169

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

GeoTracker EDF ☒ PDF ☐ Excel ☒ Write On (DW) ☐

Report To: Robert Flory	Bill To: Same
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: Rflory@aeiconsultants.com
Tel: (925) 944-2899, extension 1##	Fax: (925) 944-2895
Project #: 12130	Project Name: Hall Equities
Project Location: 1310 14th 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
+15 SB2-W19		9/13/19	0950	5	VOA vial	X					X			
+2 SB-3-W19			1055	4		X					X			
+45 SB-5-W19			1200	4		X					X			
+120 SB-6-W19			1300	4		X					X			

Analysis Request

BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015) Silica Gel Cleanup	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													
X	X													
X	X													
X	X													

Other: Halogenated VOCs (8260B – 8010 Target List)

Comments: Filter Samples for Metals Analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
	9/13/19		
Relinquished By:	Date: 9/14/19	Time: 11:15A	Received By:
Relinquished By:	Date:	Time:	Received By:

	VOAS	O&G	METALS	OTHER
PRESERVATION	✓			
APPROPRIATE	✓			
CONTAINERS				

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
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
Website: www.mccampbell.com E-mail: main@mccampbell.com

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #12130; Hall Equities	Date Sampled: 09/29/05
		Date Received: 09/29/05
	Client Contact Robert Flory	Date Extracted: 09/29/05
	Client P.O.	Date Analyzed: 09/29/05-09/30/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0509648

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	SB 7-10	S	ND	ND	ND	ND	ND	ND	1	96
004A	SB 8-10	S	ND	ND	ND	ND	ND	ND	1	91
007A	SB 9-10	S	7.3,g	ND	ND	ND	ND	0.013	1	85
009A	SB 10-10	S	1.5,a	ND	0.018	ND	0.11	0.016	1	98

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) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

_____Angela Rydelius, Lab Manager

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	Client P.O.	Date Analyzed: 09/29/05

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

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0509648

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0509648-002A	SB 7-10	S	21,g,b	130	1	89
0509648-004A	SB 8-10	S	ND	ND	1	93
0509648-007A	SB 9-10	S	34,g,b,d	40	1	94
0509648-009A	SB 10-10	S	ND	ND	1	100

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; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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AEI Consultants	Client Project ID: #12130; Hall Equities	Date Sampled: 09/29/05
2500 Camino Diablo, Ste. #200		Date Received: 09/29/05
Walnut Creek, CA 94597	Client Contact Robert Flory	Date Extracted: 09/30/05
	Client P.O.	Date Analyzed: 09/30/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0509647

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SB-7 Water	W	ND,h,i	ND	ND	ND	ND	ND	1	107
002A	SB-8 W	W	ND,i	ND	ND	ND	ND	ND	1	104
003A	SB-9 W	W	340,g,h,i	ND	1.0	ND	ND	ND	1	97
004A	SB-10 W	W	1400,a,i	ND	23	0.87	130	18	1	114

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.

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		Date Received: 09/29/05
	Client Contact Robert Flory	Date Extracted: 09/29/05
	Client P.O.	Date Analyzed: 09/29/05

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

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0509647

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0509647-001B	SB-7 Water	W	9900,g,b,h,i	38,000	10	89
0509647-002B	SB-8 W	W	640,c,i	350	1	88
0509647-003B	SB-9 W	W	5000,g,b,d,f,h,i	5400	1	104
0509647-004B	SB-10 W	W	440,d,b,i	ND	1	118

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	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.

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McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0509648 **ClientID: AEL** **EDF: YES**

Requested TAT: 1 day

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

TEL: (925) 283-6000
FAX: (925) 283-6121
ProjectNo: #12130; Hall Equities
PO:

Bill to
Diane
All Environmental, Inc.
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Date Received: **09/29/2005**
Date Printed: **09/30/2005**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509648-002	SB 7-10	Soil	09/29/05 8:50:00	☐	A	A	A												
0509648-004	SB 8-10	Soil	09/29/05 9:55:00	☐	A		A												
0509648-007	SB 9-10	Soil	09/29/05 11:25:00	☐	A		A												
0509648-009	SB 10-10	Soil	09/29/05 12:55:00	☐	A		A												

Test Legend:

1	G-MBTEX_S	2	PREDF REPORT	3	TPH(DMO)_S	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Rosa 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.

aei 0509648

RUSH!

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

GeoTracker EDF ☒ PDF ☒ Excel ☒ Write On (DW) ☐

Report To: Robert Flory **Bill To:** Same

Company: AEI Consultants

2500 Camino Diablo, Suite 200
Walnut Creek, CA 94597 **E-Mail:** [redacted]

Tel: (925) 944-2899, extension 1## **Fax:** (925) 944-2895

Project #: 12130 **Project Name:** Hall Equities

Project Location: 1310 14th 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	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	Halogenated VOCs (8260B – 8010 Target List)
5																														
SB 7-7.5		9/29/05	0840																											
SB7-10		9/29/05	0850												X	X														
SB8-7			0950																											
SB8-10			0957												X	X														
SB9-3			1100																											
SB9-7			1105																											
SB9-10			1127												X	X														
SB10-4			1240																											
SB-10-10			1055												X	X														

Relinquished By:	Date:	Time:	Received By:
	9/29/05	1600	
Relinquished By:	Date:	Time:	Received By:
	9/29/05	1617	
Relinquished By:	Date:	Time:	Received By:

Filter Samples for Metals Analysis: Yes / No

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