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January 10, 1997
Project No. 1515

#1650

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: 807 75th Avenue, Oakland, California

Dear Mr. Chan:

This letter is a proposed workplan for your review and approval for the soil and groundwater investigation to be performed at the above referenced site. All Environmental, Inc. (AEI) is providing environmental engineering consulting and construction services to Mr. Alan Kanady of Omega Termite, and is submitting this letter on his behalf.

A previous workplan was submitted and approved by your office on November 7, 1996. The workplan described the excavation and remediation of petroleum impacted soil generated from the tank removal and additional excavation activities.

As you are aware, Mr. Kanady is applying for the California State Reimbursement Fund. In order to comply with Fund requirements, AEI is proposing to perform a Phase II Subsurface Investigation to define the extent of petroleum impacted soil. The investigation will also include groundwater collection and sampling. The following workplan describes the proposed Phase II Subsurface Investigation.

Site Description and Background

In September 15, 1996, three gasoline underground storage tanks (USTs) were removed from the property (Ref. - Underground Storage Tank Removal Final Report, October 10, 1996). The tanks consisted of one 500 gallon, one 1,000 gallon and one 8,000 gallon UST. The previous locations of the tanks are shown in Figure 1.

Soil samples were collected from beneath the 500 gallon and 1,000 gallon gasoline USTs and from the three sidewalls of the 8,000 gallon UST excavation. Concentrations of total petroleum hydrocarbons (TPH) as gasoline were present in the soil beneath the 500 gallon UST at concentrations of 4,300 ppm. Minor concentrations (41 ppm) of TPH as gasoline were present beneath the 1,000 gallon UST. Concentrations of TPH as gasoline above 100 ppm were present in the western and northwestern sidewall samples (see attached figure).

Groundwater was encountered during the excavation of the 8,000 gallon UST. A grab groundwater sample collected from the excavation indicated significant concentrations of petroleum hydrocarbon contaminants within the groundwater.

Scope of Work

AEI proposes to advance six soil borings (BH-1, BH-2, BH-3, BH-4, BH-5 and BH-6) to a depth of approximately 12 feet below ground surface (bgs) or until first groundwater, whichever is encountered first. Groundwater is expected at approximately 11 feet bgs. The soil borings will be advanced with a Geoprobe drilling in the locations shown on the attached site plan.

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Lafayette, CA 94549
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Fax: (510) 283-6121

Sacramento Office:

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The soil borings will be logged on-site by a professional geologist using the Unified Soil Classification System. Undisturbed soil samples will be collected at 3 feet bgs and then at 5 foot intervals, starting at 5 feet bgs. The samples will be collected for visual classification and chemical analysis in 7/8-inch acrylic liners. One soil sample from each boring will be analyzed at a state certified laboratory. The soil samples selected for chemical testing will be determined by the geologist on-site at the time of sampling. Soil samples obtained during drilling will be screened in the field via sensory perceptions and portable organic vapor meter.

All soil samples will be secured using teflon tape and caps. All samples will be put on ice and transported, under chain of custody procedures to McCampbell Analytical, Inc. of Pacheco, California. Soil samples will be analyzed for TPH as gasoline, benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tert-butyl ether (MTBE) and lead.

Grab groundwater samples will be collected from soil borings BH-1, BH-4 and BH-6 to assess potential groundwater contamination down-gradient from the former tanks. Groundwater beneath the site is assumed to flow to the southwest based upon the topography of the site. Groundwater samples will be collected from the borings with a pre-cleaned stainless steel bailer. Groundwater will be placed in voas and placed on ice for transport to McCampbell Analytical, Inc. The groundwater samples will be analyzed for TPH as gasoline, BTEX, and MTBE.

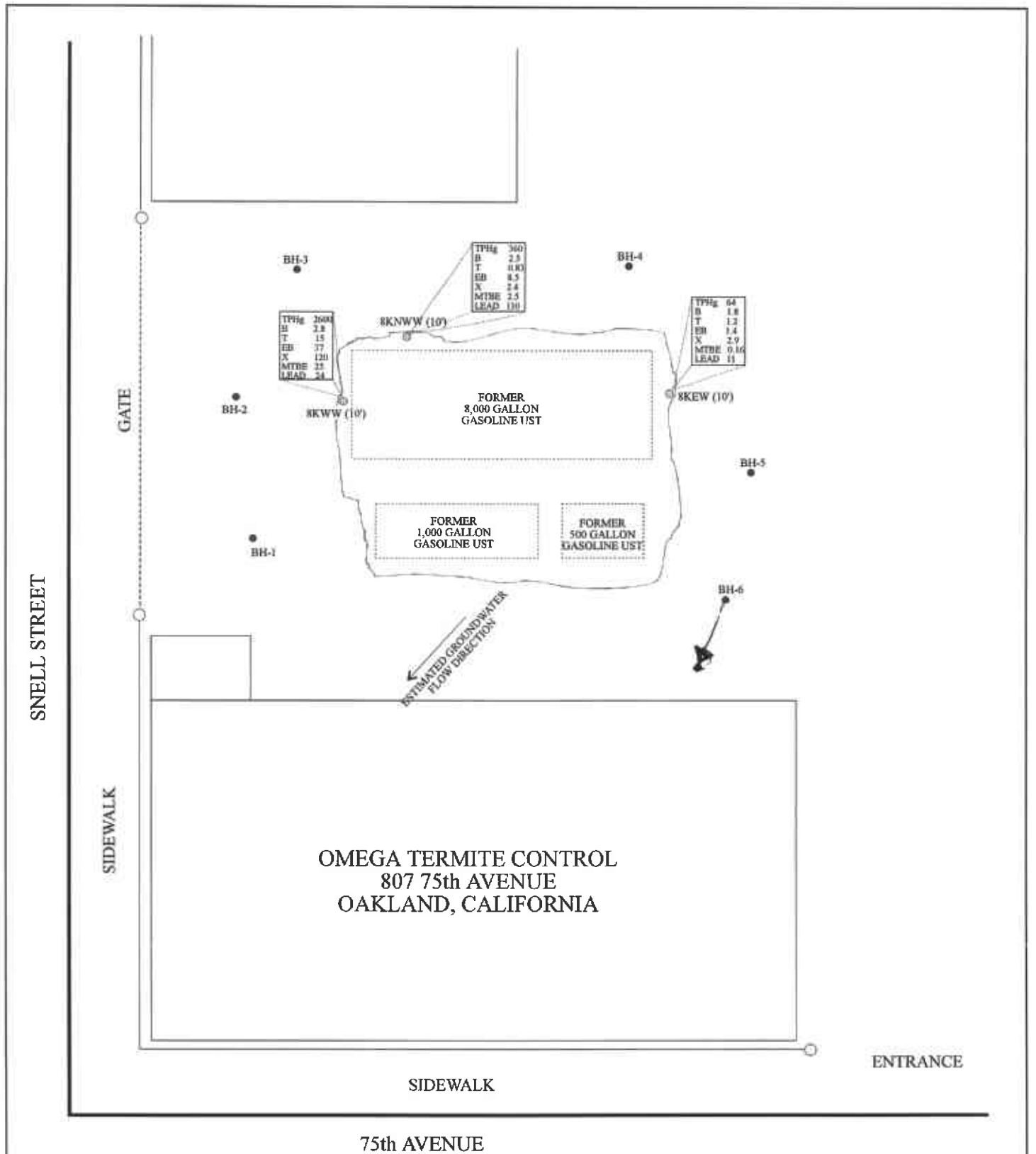
Minimal cuttings are expected to be generated from the drilling. Any soil cuttings will be stored on-site with the stockpiled soil generated from the tank removals. On-site treatment or off-site disposal of contaminated drill cuttings is not a part of this work scope. It is likely that the soil will be treated on-site and reused as backfill material.

AEI requests your approval to proceed with this project. AEI is eager to complete this work as soon as possible. Please let me know if you need additional information and please do not hesitate to call me at (510) 283-6000 if you have any questions.

Sincerely,
ALL ENVIRONMENTAL, INC.


Jennifer Anderson
Project Manager

Attachment



← TO SAN LEANDRO AVENUE

© SIDEWALK SOIL SAMPLES ANALYZED SEPTEMBER 15, 1996
● PROPOSED SOIL BORING LOCATIONS

ALL ENVIRONMENTAL, INC.
3364 MT. DIABLO BOULEVARD, LAFAYETTE

SCALE: 1 IN = 10 FT	APPROVED BY: CH	DRAWN BY: J. S. ANDERSON
DATE: 10 JANUARY 97		REVISED: J.S. ANDERSON

SAMPLE LOCATION MAP

807 75th AVENUE
OAKLAND, CALIFORNIA

DRAWING NUMBER:
FIGURE 1