ALL ENVIRONMENTAL, INC.

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#568

FAX TRANSMITTAL SHEET

TO: Barney Chan

FAX NUMBER: 537-9335

FROM: Bryan Campbell, Project Geologist

MESSAGE: Letter regarding backfilling at:

625 Hegenberger Rd
Oakland CA.

DATE: SEP 17 1996 **No. of Pages (Including cover page):** 5

AEI

ALL ENVIRONMENTAL, INC.
Environmental Engineering & Construction

September 17, 1996
AEI Project No. 96-B016

Mr. Barney Chan, Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Rm. 250
Alameda, CA 94502-6577

Subject: **Soil Remediation**
625 Hegenberger Road, Oakland, California

probably high

8 x 200 cy ?

Dear Mr. Chan:

The following letter is an update on the current remedial efforts at the above referenced job site. Between April 8 and April 11, 1996, approximately 1,600 cubic yards of native soil and surface cover were excavated from three areas of the site. Most of the excavated soil was stockpiled to the west of the former building creating a total of eight piles on site. The on-site aeration procedure progressed as outlined in AEI's workplan entitled "Soil Remediation Workplan" dated March 20, 1996. Soil from Piles #2 and #4 was spread and used as backfill material on July 11, 1996 as proposed in AEI's letter dated July 10, 1996. **On July 26, 1996 the waste oil pit stockpiles, Piles #5 and #8, were hauled off-site for disposal at the Bay Area Soil Landfill in Richmond. Piles #5 and #8 contained a total of approximately 6 cubic yards of soil.**

~ 600 cy

Baseline sampling results for Piles #3, #6, and #7, encompassing approximately 500 cubic yards of soil, are listed in Table 1. Piles #6 and #7 contain soil from the current excavation activities and Pile #3 contains soil excavated during the removal of three underground storage tanks and related structures in October, 1993. The samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) (EPA method (5030/8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) (EPA method 8020/602). The soil from Piles #3, #6 and #7 was spread into the 180' X 150' aeration cell and aerated in accordance with Bay Area Air Quality Management District (BAAQMD) Regulation 8 Rule 40. AEI tilled the soil biweekly for eight weeks. An Organic Vapor Monitor (OVM) was used to measure vapor concentrations around the perimeter and to measure the progress of the soil remediation.

Confirmation soil samples were taken on September 9, 1996, in accordance with EPA's "Test Methods for Evaluating Solid Waste (SW-846)." The initial number of soil samples collected was based on the recommendations of AEI's workplan which states that one confirmation

sample would be collected for every 50 cubic yards of aerated soil. A total of 10 samples were collected from random locations within the aeration cell at least six inches below the surface and were sent to American Analytics in Chatsworth for analysis. Results of this analysis are listed in Table 2. Only one sample (9) of the 10 samples collected contained detectable concentrations of any of the tested contaminants.

The conditions of SW-846 requires statistical analyses of sample data to ensure the 90% confidence interval has been reached. Since almost all of the samples did not contain contaminant concentrations above the detection limit, calculating the standard deviation and confidence interval for this data set would be meaningless.

As most of the sample results were below the detection limits, the remedial goals of the workplan have clearly been met. AEI recommends that the remediated soil be reused and placed back into the excavation from which it came.

Please do not hesitate to contact Joseph P. Derhake at (310) 328-8878 if you have any questions.

Sincerely,
ALL ENVIRONMENTAL, INC.

Bryan Campbell
Project Geologist

Joseph P. Derhake
Project Manager

CC: James Graeb, Diversified Investment Management Group, 400 Oyster Point Boulevard, Suite 415, South San Francisco, CA 94080

Table 1: Summary of Baseline Samples Prior to Treatment

Sample Number	Pile	Sample Date	TPHg mg/kg	Benz. mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Xylenes mg/kg
OSP-1	#3	4/9/96	<1	<0.005	<0.005	<0.005	<0.01
OSP-2	#3	4/9/96	1.9	0.050	0.12	0.062	0.34
OSP-3	#3	4/9/96	<1	<0.005	<0.005	<0.005	<0.01
OSP-4	#3	4/9/96	<1	<0.005	<0.005	<0.005	<0.01
OSP-5	#3	4/9/96	<1	<0.005	<0.005	<0.005	<0.01
OSP-6	#3	4/9/96	<1	<0.005	<0.005	<0.005	<0.01
Comp P6-C14	#6	5/8/96	<1	<0.005	<0.005	<0.005	<0.01
Comp P6-C15	#6	5/8/96	<1	<0.005	<0.005	<0.005	<0.01
Comp P6-C16	#6	5/8/96	<1	<0.005	<0.005	<0.005	<0.01
Comp P6-C17	#6	5/8/96	<1	<0.005	<0.005	<0.005	<0.01
Comp P6-C18	#6	5/8/96	<1	<0.005	<0.005	<0.005	<0.01
Comp P7-C1	#7	7/16/96	<1	<0.005	<0.005	<0.005	<0.01
Comp P7-C2	#7	7/16/96	<1	<0.005	<0.005	<0.005	<0.01

mg/kg = ppm
NA = Not Analyzed
OSP-1 = Sample #1 from previous excavation
COMP P6C14 = Composite sample from Pile #6, Cell #14

Table 2: Summary of Confirmation Samples After Treatment

Sample Number	Sample Date	TPHg mg/kg	Benz. mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Xylenes mg/kg
1	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
2	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
3	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
4	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
5	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
6	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
7	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
8	9/5/96	<1	<0.005	<0.005	<0.005	<0.01
9	9/5/96	<1	<0.005	<0.005	<0.005	0.010
10	9/5/96	<1	<0.005	<0.005	<0.005	<0.01

mg/kg = ppm
1 = Sample #1 of Random Sampling