



KAPREALIAN ENGINEERING, INC.

Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676-9100 (707) 746-6915

KEI-J88-1110
December 6, 1988

Paradiso Construction
P.O. Box 6397
Oakland, CA 94603

Attention: Mr. Paul Paradiso

RE: Stockpiled Soil Sampling for
Berkeley Farms
23555 Saklan
Hayward, California

Dear Mr. Paradiso:

This letter report summarizes the results of the stockpiled soil sampling and laboratory analyses for the referenced site. The soil analyses were conducted to comply with the County Health Department requirements for proper disposal of contaminated soil.

On November 7, 1988, soil samples from approximately 130 cubic yards of stockpiled soil at the referenced site were collected to determine proper disposal of the stockpile. Two composite soil samples (designated as Comp 1 and Comp 2) were taken. Each composite sample consisted of four individual grab samples taken at various locations and depths ranging from one to two feet. The samples were collected in 2" by 4", clean brass tubes, which were then sealed with aluminum foil, plastic caps and tape, and placed in a cooled ice chest for subsequent delivery to a certified laboratory for analysis. All samples were taken to Sequoia Analytical Laboratory in Redwood City, California and were accompanied by properly executed Chain of Custody documentation. Sample locations are as shown on the attached Site Plan.

The composite samples were analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline using EPA method 5030 or 3810 in conjunction with modified 8015, TPH as diesel using EPA method 3550 in conjunction with modified 8015, benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA methods 5030 and 8020. The results of the soil analyses showed concentrations of TPH as gasoline as 57 ppm for Comp 1 and 1.4 ppm for Comp 2. TPH as diesel concentrations are 140 ppm for Comp 1 and 9.0 ppm for Comp 2. Copies of the laboratory analyses, and the Chain of Custody forms are attached to this report.

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December 6, 1988
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The TPH levels in the soil exceed the action limits set by the Regional Water Quality Control Board (RWQCB).

Should you have any questions on this report, please do not hesitate to contact me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.



Gary S. Johnson
Registered Geologist

License No. 4315
Exp. Date 6/30/90

Attachments: Laboratory Results
Chain of Custody



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9222 • FAX (415) 364-9233

Kaprealian Engineering, Inc.
P.O. Box 913
Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.

Date Sampled: 11/07/88
Date Received: 11/08/88
Date Analyzed: 11/21/88
Date Reported: 11/28/88

Project: Berkeley Farms, Hayward

TOTAL PETROLEUM HYDROCARBONS

<u>Sample Number</u>	<u>Sample Description</u> Soil	<u>Detection Limit</u> ppm	<u>High Boiling Point Hydrocarbons</u> ppm
8110906	Composite 1	1.0	140
8110907	Composite 2	1.0	9.0

Method of Analysis: EPA 3550/8015

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9222 • FAX (415) 364-9233

Kaprealian Engineering, Inc.
P.O. Box 913
Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.

Date Sampled: 11/07/88
Date Received: 11/08/88
Date Analyzed: 11/20/88
Date Reported: 11/28/88

Project: Berkeley Farms, Hayward

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION

<u>Sample</u> <u>Number</u>	<u>Sample</u> <u>Description</u> Soil	Low to Medium Boiling Point <u>Hydrocarbons</u> ppm	<u>Benzene</u> ppm	<u>Toluene</u> ppm	Ethyl <u>Benzene</u> ppm	<u>Xylenes</u> ppm
8110906	Composite 1	57	N.D.	N.D.	N.D.	N.D.
8110907	Composite 2	1.4	N.D.	N.D.	N.D.	N.D.

Detection Limits: 1.0 0.05 0.1 0.1 0.1

Method of Analysis: EPA 5030 or 3810/8015/8020

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-8100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: Jean Semansky DATE/TIME OF COLLECTION: 11-7-88
(signature) KEI

TURN AROUND TIME: 10 DAYS
~~Report~~
~~By 11/12/88~~

SAMPLE DESCRIPTION AND PROJECT NUMBER:

Berkeley Farms
Hayward

<u>SAMPLE #</u>	<u>ANALYSES</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u>Comp 1</u>	<u>TPH (D+G) BTXE</u>	<u>Comp 95</u>	<u>4</u>	<u>S</u>
<u>Comp 2</u>	<u>TPH (D+G) BTXE</u>	<u>Comp 95</u>	<u>4</u>	<u>S</u>

RELINQUISHED BY* Jean Semansky TIME/DATE 11/7/88
KEI 9:07

RECEIVED BY* William Truckay TIME/DATE 11/8/88 0907

2. William Truckay 11/8/88 10:50

Ron Offler 11/8/88 10:50 AM

3.

4.

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: Jean Semansky (signature) KEI DATE/TIME OF COLLECTION: 11-7-88 TURN AROUND TIME: 18 DAYS
~~By Regatta~~
~~By 11/10/88~~

SAMPLE DESCRIPTION AND PROJECT NUMBER: Berkeley Farms
Hayward

<u>SAMPLE #</u>	<u>ANALYSES</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u>Comp 1</u>	<u>TPH (D+G) BTXE</u>	<u>Comp 95</u>	<u>4</u>	<u>S</u>
<u>Comp 2</u>	<u>TPH (D+G) BTXE</u>	<u>Comp 95</u>	<u>4</u>	<u>S</u>

<u>RELINQUISHED BY*</u>	<u>TIME/DATE</u>	<u>RECEIVED BY*</u>	<u>TIME/DATE</u>
<u>1. Jean Semansky</u> <u>KEI</u>	<u>11/7/88</u> <u>7:07</u>	<u>William Straka</u>	<u>11/2/88 0907</u>
<u>2.</u>			
<u>3.</u>			
<u>4.</u>			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____