



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94610

(707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581

90 MAR 29 PM 1:36

*Composite stockpile
sampling =*

March 21, 1990

Virtually NO

Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

RE: Unocal Service Station #3135
845 - 66th Avenue
Oakland, California 621

Gentlemen:

Per the request of Mr. Ron Bock of Unocal Corporation, enclosed please find our report dated March 19, 1990, for the above referenced site.

Should you have any questions, please feel free to call our office at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Judy A. Dewey

jad\82

Enclosure

cc: Ron Bock, Unocal Corporation



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KEI-J88-1203.R6
March 19, 1990

Unocal Corporation
2175 N. California Blvd., #650
Walnut Creek, CA 94596

Attention: Mr. Ron Bock

RE: Stockpiled Soil Sampling for
Unocal Service Station #3135
845 - 66th Avenue
Oakland, California

Dear Mr. Bock:

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 February 13, 1990, soil samples from approximately 100 cubic yards of aerated stockpiled soil at the referenced site were collected to determine proper disposal of the soil. Two composite soil samples (designated as Comp 3 and Comp 4) were taken. Each composite sample consisted of four individual grab samples taken at various locations and depths ranging from 1 to 2 feet. The samples were collected in two-inch diameter, 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. Both samples were analyzed at Sequoia Analytical 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 in conjunction with modified 8015, benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA method 8020. The results of the soil analyses showed concentrations of TPH as gasoline at 1.0 ppm for Comp 3 and non-detectable for Comp 4. Analytical results are summarized in Table 1. Copies of the laboratory analyses, and the Chain of Custody documentation are attached to this report.

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March 19, 1990
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Based on TPH levels in the stockpiled soil of less than 10 ppm, the soil can be disposed of at an approved Class III disposal site. However, KEI recommends that during disposal, when obvious isolated high contamination is detected within the stockpiled soil, that portion of the soil be separately stockpiled for further sampling and treatment.

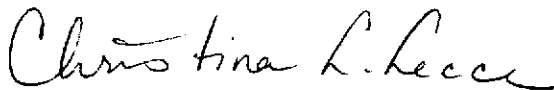
DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services, and to the Regional Water Quality Control Board (RWQCB), San Francisco Bay Region.

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

Sincerely,

Kaprealian Engineering, Inc.



Christina L. Lecce

c11

Attachments: Table 1
Site Plan
Laboratory Results
Chain of Custody documentation

KEI-J88-1203.R6
March 19, 1990

TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Samples collected on February 13, 1990)

<u>Sample</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
Comp A	1.0	ND	ND	ND	ND
Comp B	ND	ND	ND	ND	ND
Detection Limits	1.0	0.05	0.1	0.1	0.1

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

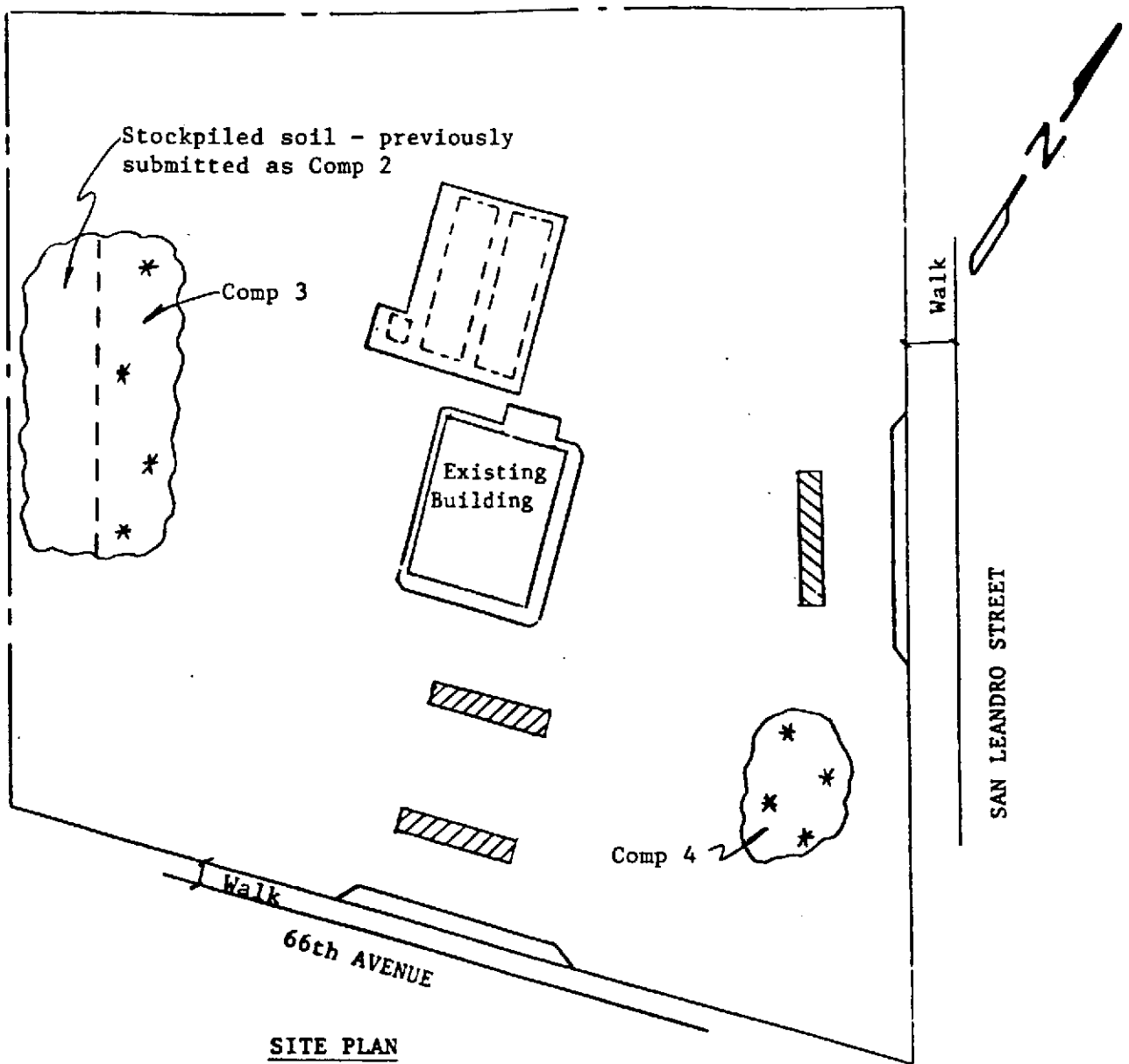


KAPREALIAN ENGINEERING, INC.

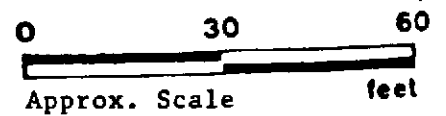
Consulting Engineers

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SITE PLAN
Figure



LEGEND

* Sample Point Location

Unocal SS #3135
845 66th AVENUE
OAKLAND, CALIFORNIA



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc. P.O. Box 996 Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.	Client Project ID: Unocal, Oakland, San Leandro/66th Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 002-1790 A-B	Sampled: Feb 13, 1990 Received: Feb 14, 1990 Analyzed: Feb 14, 1990 Reported: Feb 14, 1990
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TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
0021790 A-B	Composite 3	1.0	N.D.	N.D.	N.D.	N.D.
0021791 A-B	Composite 4	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	1.0	0.050	0.10	0.10	0.10
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
Project Manager

21790.KEI <1>



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER HAGOP		SITE NAME & ADDRESS						ANALYSES REQUESTED				TURN AROUND TIME:	
WITNESSING AGENCY		Unocal - Oakland - San Leandro St/66 th Ave						TPH-G BTXE				24 Hrs Priority: needed by 9:30 am 2/15/90	
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	NO. OF COMP. CONT.	SAMPLING LOCATION	TPH-G	BTXE	REMARKS			
Comp 3	2/13/90		✓			2	stockpile	✓	✓	0021790			
Comp 4	2/13/90		✓			2	stockpile	✓	✓	0021791			
Relinquished by: (Signature)			Date/Time			Received by: (Signature)			The following MUST BE completed by the laboratory accepting samples for analysis:				
<i>Haejop Revork</i>			2/14/90 8:15			<i>John Selbach</i>			1. Have all samples received for analysis been stored in ice? _____ 2. Will samples remain refrigerated until analyzed? _____ 3. Did any samples received for analysis have head space? _____ 4. Were samples in appropriate containers and properly packaged? _____				
Relinquished by: (Signature)			Date/Time			Received by: (Signature)			Signature _____ Title _____ Date _____				
Relinquished by: (Signature)			Date/Time			Received by: (Signature)							
Relinquished by: (Signature)			Date/Time			Received by: (Signature)			<i>Victoria Herrera</i> 2/14/90 10:00 AM				