

Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581

> KEI-J88-1203.R3 January 23, 1990

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

Attention: Mr. Tim Ross

RE: Stockpiled Soil Sampling for Unocal Service Station #3135

845 - 66th Avenue Oakland, California

Dear Mr. Ross:

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 December 11, 1989, soil samples from approximately 750 cubic yards of stockpiled soil (excavated from the fuel tank pit) at the referenced site were collected to determine proper disposal of the soil. Fifteen composite soil samples (designated as Comp A, Comp B, Comp C, Comp D, Comp E, Comp F, Comp G, Comp H, Comp I, Comp J, Comp K, Comp L, Comp M, Comp N and Comp P) 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 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. Sample locations are as shown on the attached Site Plan, Figure 1.

On December 29, 1989, soil samples from approximately 150 cubic yards of additional stockpiled soil (excavated from piping trenches) at the referenced site were collected to determine proper disposal of the soil. Three composite soil samples, labeled Comp AA, Comp BB and Comp CC, were taken and handled as described above. Sample locations are as shown on the attached Site Plan, Figure 2.

On January 10, 1990, soil samples from approximately 100 cubic yards of additional stockpiled soil (excavated from piping trenches) at the referenced site were collected again to determine the appropriate disposition. Two composite soil samples, labeled Comp DD and Comp EE, were taken and handled as described

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above. Sample point locations are as shown on the attached Site Plan, Figure 3.

All samples were analyzed at Sequoia Analytical in Redwood City, California, and were accompanied by properly executed Chain of Custody documentation. The composite samples were analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline using EPA method 5030 in conjunction with modified 8015; and benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA method 8020. In addition composite sample Comp A was analyzed for Organic Lead using the California LUFT manual method. Analyses of the samples showed TPH as gasoline ranging from non-detectable to 50 ppm for all samples except Comp AA and Comp DD. Both of these were 130 ppm. Organic lead for Comp A was non-detectable. Analytical results are summarized in Table 1. Copies of the laboratory analyses, and the Chain of Custody documentation are attached to this report.

Based on TPH levels in the stockpiled soil of less than 100 ppm, the soil except that represented by samples Comp AA and Comp DD can be disposed of at an approved Class III disposal site (based on Regional Water Quality Control Board guidelines). 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. Soil represented by samples Comp AA and Comp DD should be retained on-site for aeration and resampling prior to disposal.

DISTRIBUTION

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

KEI-J88-1203.R3
January 23, 1990
Page 3

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

Sincerely,

Kaprealian Engineering, Inc.

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Christina L. Lecce

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Attachments: Table 1

Site Plan, Figures 1, 2 & 3

Laboratory Results

Chain of Custody documentation

TABLE 1
SUMMARY OF LABORATORY ANALYSES

(Results in ppm)
(Samples collected on December 11 and 29, 1989, and January 10, 1990)

<u>Sample</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	Ethyl- <u>benzene</u>
<u>Dampro</u>	<u>Juboi ino</u>	<u> </u>			<u> </u>
Comp A*	40	ND	ND	1.1	ND
Comp B	49	ND	ИD	0.70	ND
Comp C	40	ND	ND	0.63	ND
Comp D	1.6	ND	ND	ND	ND
Comp E	ND	ND	ND	ND	ND
Comp F	33	ND	ND	0.75	ND
Comp G	50	ИD	ND	5.5	ND
Comp H	24	ND	ND	0.62	ND
Comp I	1.4	ND	ND	ND	ND
Comp J	5.9	ND	ND	ND	ND
Comp K	1.5	ND	ND	ND	ND
Comp L	ND	ND	ND	ND	ND
Comp M	ND	ND	ND	ND	ND
Comp N	ND	ND	ND	ND	ND
Comp P	49	ND	ND	2.5	0.11
Comp AA	130	0.23	2.1	22	0.73
Comp BB	32	0.16	0.17	3.8	0.13
Comp CC	ND	ND	ND	ND	ND
Comp DD	130	0.06	4.7	42	6.6
Comp EE	7.6	ND	ND	0.67	0.10
Detection					
Limits	1.0	0.05	0.1	0.1	0.1

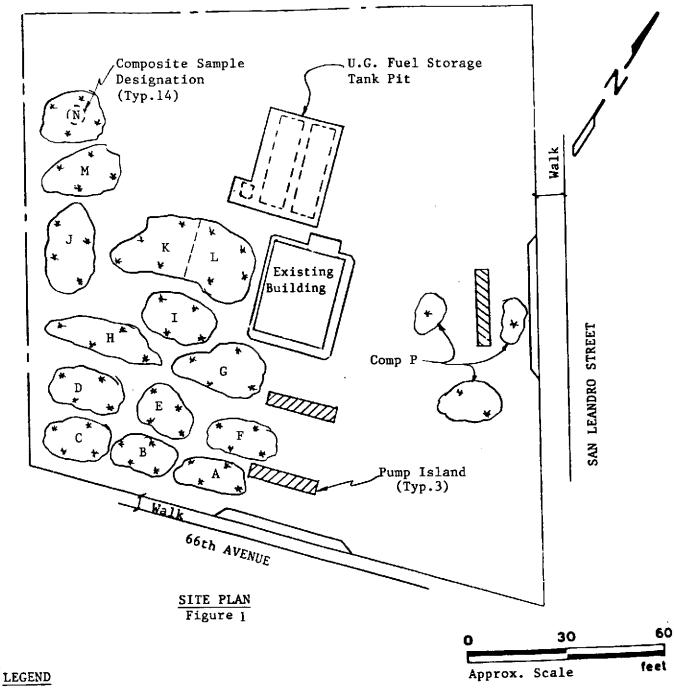
ND = Non-detectable.

^{*} Organic Lead for this sample was non-detectable.



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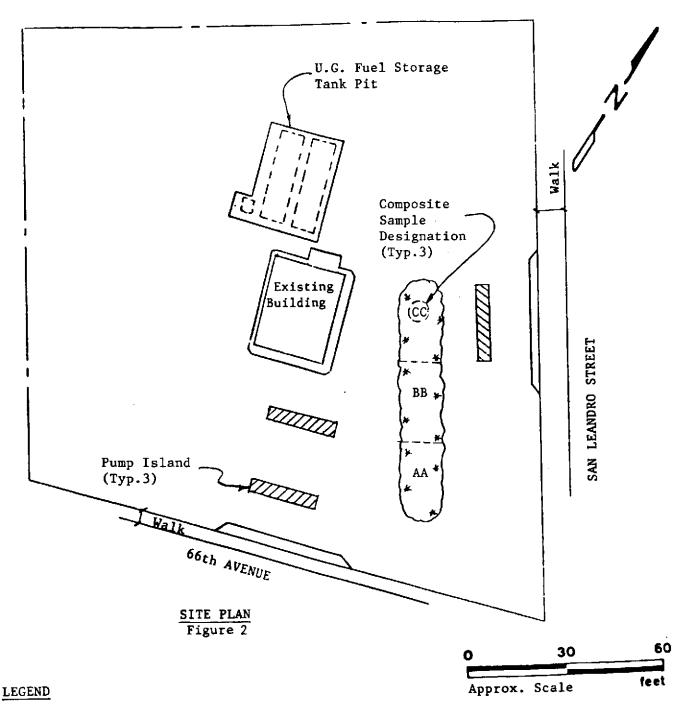
* Sample Point Location

Unocal SS #3135 845 66th AVENUE OAKLAND, CALIFORNIA



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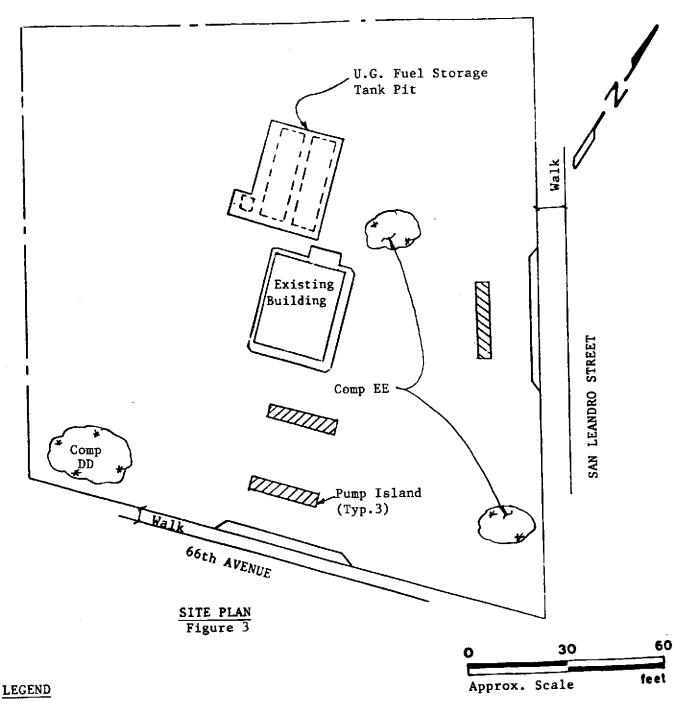
* Sample Point Location

Unocal SS #3135 845 66th AVENUE OAKLAND, CALIFORNIA



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PO: BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581



* Sample Point Location

Unocal SS #3135 845 66th AVENUE OAKLAND, CALIFORNIA



P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID: Matrix Descript:

Unocal, Oakland, 66th/San Leandro

Soil

EPA 5030/8015/8020 Analysis Method: First Sample #:

912-1169 A-B

Sampled:

Dec 11, 1989

Received: Analyzed: Reported: Dec 11, 1989 Dec 12, 1989 Dec 13, 1989

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)	
9121169 A-B	Composite A	40	N.D.	N.D.	N.D.	1.1	
9121170 A-B	Composite B	49	N.D.	N.D.	N.D.	0.70	
9121171 A-B	Composite C	40	N.D.	N.D.	N.D.	0.63	
9121172 A-B	Composite D	1.6	N.D.	N.D.	N.D.	N.D.	
9121173 A-B	Composite E	N.D.	N.D.	N.D.	N.D.	N.D.	
9121174 A-B	Composite F	33	N.D.	N.D.	N.D.	0.75	
9121175 A-B	Composite G	50	N.D.	N.D.	N.D.	5.5	
9121176 A-B	Composite H	24	N.D.	N.D.	N.D.	0.62	
9121177 A-B	Composite I	1.4	N.D.	N.D.	N.D.	N.D.	
9121178 A-B	Composite J	5.9	N.D.	N.D.	N.D.	N.D.	
Detection Limits	:	1.0	0.05	0.1	0.1	0.1	

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

9121169.KEI <2>



P.O. Box 996

Benicia, CA 94510

Client Project ID:

Unocal, Oakland, 66th/San Leandro

Sampled:

Dec 11, 1989

Matrix Descript: Analysis Method:

Soil

EPA 5030/8015/8020

Received: Analyzed: Dec 11, 1989 Dec 12, 1989

Attention: Mardo Kaprealian, P.E.

First Sample #:

912-1179 A-B Reported:

Dec 13, 1989

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)
912-1179	Composite K	1.5	N.D.	N.D.	N.D.	N.D.
912-1180	Composite L	N.D.	N.D.	N.D.	N.D.	N.D.
912-1181	Composite M	N.D.	N.D.	N.D.	N.D.	N.D.
912-1182	Composite N	N.D.	N.D.	N.D.	N.D.	N.D.
912-1183	Composite P	49	N.D.	N.D.	0.11	2.5

Detection Limits:	1.0	0.05	0.1	0.1	0.1	
1						

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



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

Kaprealian Engineering, Inc.

P.Ó. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID: Sample Descript:

Unocal, Oakland, 66th/San Leandro

Soil, Composite A

Analysis Method: First Sample #:

California LUFT Manual, 12/87

912-1169 A-B Sampled:

Dec 11, 1989

Dec 11, 1989 Dec 12, 1989 Received: Extracted: Dec 12, 1989 Analyzed:

Reported: Dec 13, 1989

ORGANIC LEAD

Sample Number

Sample Description Sample Results

mg/kg (ppm)

9121169 A-B

Composite A

N.D.

Detection Limits:

0.05

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

SEQUOIA ANALYTICAL

Belinda C. Vega Project Manager

9121169.KEI < 1>

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KAPREALIAN ENGINEERING, INC.

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Client Project ID:

Unocal, Oakland, 66th/San Leandro

Sampled: Dec 29, 1989

P.O. Box 996

Benicia, CA 94510

Matrix Descript: Analysis Method: Soil EPA 5030/8015/8020 Received: Analyzed: Jan 3, 1990 Jan 3, 1990

Attention: Mardo Kaprealian, P.E.

First Sample #:

A-B 001-0079

Reported:

Jan 4, 1990

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)
0010079 A-B	Composite AA	130	0.23	2.1	0.73	22
0010080 A-B	Composite BB	32	0.16	0.17	0.13	3.8
0010081 A-B	Composite CC	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	1.0	0.05	0.1	0.1	0.1	
1						

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



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P.O. Box 996

Benicia, CA 94510

Client Project ID:

Unocal, Oakland, 66th/San Leandro

Sampled:

Jan 10, 1990

Matrix Descript: Analysis Method:

Soil

EPA 5030/8015/8020

Received: Analyzed: Jan 11, 1990 Jan 11, 1990

Attention: Mardo Kaprealian, P.E.

First Sample #:

001-1126

Reported:

Jan 12, 1990

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)
0011126 A-B	Composite DD	130	0.060	4.7	6.6	42
0011127 A-B	Composite EE	7.6	N.D.	N.D.	0.10	0.67

Detection Limits:	1.0	0.05	0.1	0.1	0.1	

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



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