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

KEI-J89-0111.R4
March 28, 1989

Unocal Corporation
2175 N. California Blvd., Suite 650
Walnut Creek, CA 94569

Attention: Mr. Tim Ross

RE: Stockpiled Soil Sampling for
Unocal Service Station #5487
28250 Hesperian Blvd.
Hayward, 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 February 1, 1989, soil samples from approximately 350 cubic yards of stockpiled soil at the referenced site were collected to determine proper disposal of the stockpile. Seven composite soil samples (designated as Comp A, Comp B, Comp C, Comp D, Comp E, Comp F and Comp G) 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" 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. All samples were analyzed at 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, 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 ranging from 1.2 ppm to 38 ppm. 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 50 ppm, the soil may be disposed of at an approved Class III disposal site (based on Regional Water Quality Control Board guidelines).

A copy of this report should be sent to the Regional Water Quality Control Board, San Francisco Bay Region, and to the Hayward Fire Department to the attention of Mr. Hugh Murphy.

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

Christina L. Lecce

Mardo Kaprealian
President

cc: Tim Dahl, Gettler-Ryan
Donna Ballard, Redwood Sanitary Landfill

Attachments: Table 1
Laboratory Results
Chain of Custody documentation

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TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Results in ppm)
(Samples collected on February 1, 1989)

Sample	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethyl-benzene
Comp A	5.4	ND	0.17	0.16	0.61
Comp B	32	0.40	0.44	0.52	2.9
Comp C	38	0.068	0.22	0.291	2.7
Comp D	22	0.082	0.77	0.49	2.7
Comp E	1.2	ND	ND	ND	ND
Comp F	30	0.33	1.2	0.83	5.3
Comp G	3.9	ND	0.1	0.1	0.51

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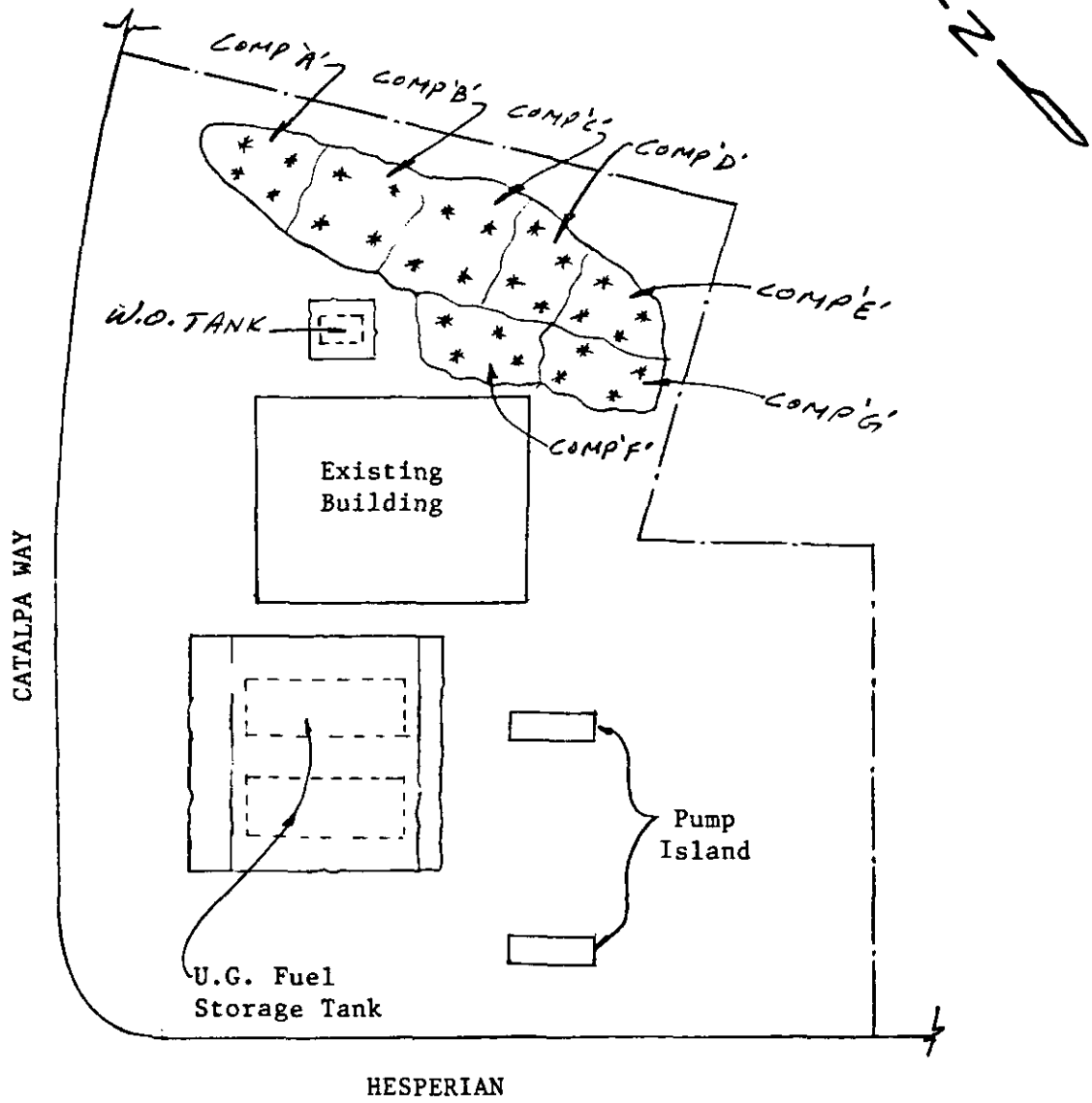

SITE PLAN
n.t.s.

Unocal Service Station #5487
28250 Hesperian
Hayward, California

* Soil Sample Location

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

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, Hayward, Hesperian/Catalpa	Sampled:	Feb 1, 1989
P.O. Box 913	Matrix Descript:	Soil	Received:	Feb 2, 1989
Benicia, CA 94510	Analysis Method:	EPA 5030 or 3810/8015/8020	Analyzed:	Feb 2, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #:	902-0067	Reported:	Feb 3, 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)
902-0070	Composite A	5.4	N.D.	0.17	0.16	0.61
902-0071	Composite B	32	0.4	0.44	0.52	2.9
902-0072	Composite C	38	0.068	0.22	0.29	2.7
902-0073	Composite D	22	0.082	0.77	0.49	2.7
902-0074	Composite E	1.2	N.D.	N.D.	N.D.	N.D.
902-0075	Composite F	30	0.33	1.2	0.83	5.3
902-0076	Composite G	3.9	N.D.	0.1	0.1	0.51
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

Arthur G. Burton
Laboratory Director

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CHAIN OF CUSTODY

SAMPLER: R. M. Bradish (signature) DATE/TIME OF COLLECTION: 2-1-89 TURN AROUND TIME: 24 HR

SAMPLE DESCRIPTION AND PROJECT NUMBER: Unocal - Hayward
Hesperian & Catalpa

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/ WATER
Comp A	TPH-G & BTXE	C	2	S
" B	" "	C	2	S
" C	" "	C	2	S
" D	" "	C	2	S
" E	" "	C	2	S
" F	" "	C	2	S
" G	" "	C	2	S

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. R. M. Bradish	2-2-89 0910	Tim McLain	2/2/89 910
2. Tim McLain	2-2-89 1030	[signature]	2/2/89 10:35
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: