



SEQUOIA ANALYTICAL

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

89 DEC 20 PM 3:49

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th/San Leandro	Sampled: Dec 11, 1989
P.O. Box 996	Sample Descript: Soil, Composite A	Received: Dec 11, 1989
Benicia, CA 94510	Analysis Method: California LUFT Manual, 12/87	Extracted: Dec 12, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #: 912-1169 A-B	Analyzed: Dec 12, 1989
		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>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
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Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th/San Leandro	Sampled: Dec 11, 1989
P.O. Box 996	Matrix Descript: Soil	Received: Dec 11, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Dec 12, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #: 912-1169 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)
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
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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.

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Project Manager



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Kaprealian Engineering, Inc.	Client Project ID:	Unocal, Oakland, 66th/San Leandro	Sampled:	Dec 11, 1989
P.O. Box 996	Matrix Descript:	Soil	Received:	Dec 11, 1989
Benicia, CA 94510	Analysis Method:	EPA 5030/8015/8020	Analyzed:	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
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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



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER JOE/KEI		SITE NAME & ADDRESS Unocal / Oakland 66th / San Leandro				ANALYSES REQUESTED TPHG, BTXE Organic Lead				TURN AROUND TIME: 24 hrs.
WITNESSING AGENCY										
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	NO. OF CONT.	SAMPLING LOCATION			REMARKS
Comp. A	12/11/89	AFTERNOON	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	Stockpile	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" B	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" C	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" D	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" E	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" F	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" G	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" H	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
" I	"		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Relinquished by: (Signature) [Signature]		Date/Time 12/11/89		Received by: (Signature)		The following MUST BE completed by the laboratory accepting samples for analysis: 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)						
Relinquished by: (Signature)		Date/Time		Received by: (Signature)						
Relinquished by: (Signature)		Date/Time		Received by: (Signature)						
		12/11 6:50pm		Brandie Oh		[Signature]		10pm		12/11
						Signature		Title		Date



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER SOE/KEI		SITE NAME & ADDRESS Unocal / Oakland 66th / San Leandro					ANALYSES REQUESTED			TURN AROUND TIME: 24 hrs	
WITNESSING AGENCY							TRIG, BTXC				
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	NO. OF CONT.	SAMPLING LOCATION			REMARKS	
Comp J	12/11/89		"			2	Stockpile	✓		<p><u>Please Note:</u> Please put a hold (only) on Comp. O until further directed by KEI's Dick Bradish project coordinator.</p>	
" K	"	RETURN	"			"	"	✓			
" L	"		"			"	"	✓			
" M	"		"			"	"	✓			
" N	"		"			"	"	✓			
" O	"		"	"	"	"	"	"	✓		hold -
" P	"		"	"			"	"	✓		
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? _____ yes _____ 2. Will samples remain refrigerated until analyzed? _____ yes _____ 3. Did any samples received for analysis have head space? _____ no _____ 4. Were samples in appropriate containers and properly packaged? _____ yes _____				
Relinquished by: (Signature)		Date/Time		Received by: (Signature)							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)							
		12/11 6:50 pm.		Blender Au		BLW		log-in		12/11	
						Signature		Title		Date	



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89 DEC 20 PM 3: 49

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th @ San Leandro	Sampled: Dec 5, 1989
P.O. Box 996	Sample Descript.: Water, W1	Received: Dec 5, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/ 8015/8020	Analyzed: Dec 7, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 912-0375 C-D	Reported: Dec 7, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Low to Medium Boiling Point Hydrocarbons.....	150.0	7,900
Benzene.....	1.5	850
Toluene.....	1.5	150
Ethyl Benzene.....	1.5	N.D.
Xylenes.....	1.5	720

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. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Project Manager



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Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th @ San Leandro	Sampled: Dec 5, 1989
P.O. Box 996	Sample Descript: Water, W1	Received: Dec 5, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8010	Analyzed: Dec 6, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 912-0375 A-B	Reported: Dec 7, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane.....	1.0	N.D.
Bromoform.....	1.0	N.D.
Bromomethane.....	1.0	N.D.
Carbon tetrachloride.....	1.0	N.D.
Chlorobenzene.....	1.0	N.D.
Chloroethane.....	5.0	N.D.
2-Chloroethylvinyl ether.....	1.0	N.D.
Chloroform.....	0.5	N.D.
Chloromethane.....	0.5	N.D.
Dibromochloromethane.....	0.5	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,1-Dichloroethane.....	0.5	N.D.
1,2-Dichloroethane.....	0.5	N.D.
1,1-Dichloroethene.....	1.0	N.D.
Total 1,2-Dichloroethene.....	1.0	N.D.
1,2-Dichloropropane.....	0.5	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	2.0	N.D.
1,1,2,2-Tetrachloroethane.....	0.5	N.D.
Tetrachloroethene.....	0.5	N.D.
1,1,1-Trichloroethane.....	0.5	N.D.
1,1,2-Trichloroethane.....	0.5	N.D.
Trichloroethene.....	0.5	N.D.
Trichlorofluoromethane.....	1.0	N.D.
Vinyl chloride.....	2.0	N.D.

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

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89 DEC 20 PM 3:49

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th/San Leandro	Sampled: Nov 29, 1989
P.O. Box 913	Matrix Descript: Soil	Received: Nov 29, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Nov 30, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #: 911-3711	Reported: Dec 1, 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)
911-3711	SW1	1.6	N.D.	N.D.	N.D.	N.D.
911-3712	SW2	3.8	N.D.	N.D.	N.D.	N.D.
911-3713	SW3	5.6	N.D.	N.D.	0.42	2.3
911-3714	SW4	32	1.2	N.D.	2.1	1.0
911-3715	SW5	4.8	0.20	N.D.	N.D.	0.11
911-3716	SW6	N.D.	N.D.	N.D.	N.D.	N.D.
911-3717	P1	15	0.086	N.D.	0.18	8.5

Detection Limits:	1.0	0.05	0.1	0.1	0.1
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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
Belinda C. Vega
Project Manager

Please Note:
Amended Report dated: 12/8/89



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER		SITE NAME & ADDRESS							ANALYSES REQUESTED		TURN AROUND TIME:
Dick Bradish		Unocal - Oakland 66th + San Leandro									24hrs
WITNESSING AGENCY Alameda County Health Agency											
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-G	BTXE	REMARKS
SW1	11/29		X		X		1	Fuel Tank Sidewall	✓	✓	9113711
SW2	11/29		X		X		1	"	✓	✓	12
SW3	11/29		X		X		1	"	✓	✓	13
SW4	11/29		X		X		1	"	✓	✓	14
SW5	11/29		X		X		1	"	✓	✓	15
SW6	11/29		X		X		1	"	✓	✓	16
PI	11/29		X		X		1	Pipe Trench	✓	✓	17

Relinquished by: (Signature) <i>R.M. Bradish</i>	Date/Time 11-29-89 1605	Received by: (Signature) <i>Ben Roman</i>	The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <u>YES</u> 2. Will samples remain refrigerated until analyzed? <u>YES</u> 3. Did any samples received for analysis have head space? <u>NO</u> 4. Were samples in appropriate containers and properly packaged? <u>YES</u>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature) <i>J. Pravek</i>	Date/Time 11-29-89 5:56p	Received by: (Signature) <i>Paul ...</i>	
			Signature: <i>[Signature]</i> Title: <i>[Signature]</i> Date: 11-29-89



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89 DEC 20 PM 3:19

Kaprealian Engineering, Inc.	Client Project ID:	Unocal, Oakland, 66th/San Leandro	Sampled:	Nov 29, 1989
P.O. Box 996	Sample Descript:	Soil, SWA	Received:	relogged 12/8
Benicia, CA 94510			Extracted:	Dec 8, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number:	911-3725	Analyzed:	Dec 8, 1989
			Reported:	Dec 11, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.5	N.D.
Chromium.....	0.5	20
Lead.....	0.5	7.5
Zinc.....	0.5	65

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

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Belinda C. Vega
Project Manager



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Kapreallan Engineering, Inc.
P.O. Box 996
Benicia, CA 94510
Attention: Mardo Kapreallan, P.E.

Client Project ID: Unocal, Oakland, 66th/San Leandro
Sample Descript: Soil, SWB
Lab Number: 911-3726

Sampled: Nov 29, 1989
Received: relogged 12/8
Extracted: Dec 8, 1989
Analyzed: Dec 8, 1989
Reported: Dec 11, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.5	N.D.
Chromium.....	0.5	20
Lead.....	0.5	5.9
Zinc.....	0.5	44

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

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Project Manager



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Kaprealian Engineering, Inc.
P.O. Box 996
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, Oakland, 66th/San Leandro
Sample Descript: Soil, WO1
Lab Number: 911-3727

Sampled: Nov 29, 1989
Received: relogged 12/8
Extracted: Dec 8, 1989
Analyzed: Dec 8, 1989
Reported: Dec 11, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium.....	0.5	N.D.
Chromium.....	0.5	15
Lead.....	0.5	5.0
Zinc.....	0.5	39

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

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Project Manager



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Kaprealian Engineering, Inc.	Client Project ID:	Unocal, Oakland, 66th/San Leandro	Sampled:	Nov 29, 1989
P.O. Box 996	Matrix Descript:	Soil	Received:	Nov 29, 1989
Benicia, CA 94510	Analysis Method:	EPA 5030/8015/8020	Analyzed:	Nov 30, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #:	911-3725	Reported:	Dec 1, 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)
911-3725	SWA	2.1	N.D.	N.D.	N.D.	N.D.
911-3726	SWB	3.9	N.D.	N.D.	N.D.	N.D.
911-3727	WO1	1.6	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
Belinda C. Vega
Project Manager

9113725.KEI <4>



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Kaprealian Engineering, Inc.	Client Project ID:	Unocal, Oakland, 66th/San Leandro	Sampled:	Nov 29, 1989
P.O. Box 996	Matrix Descript:	Soil	Received:	Nov 29, 1989
Benicia, CA 94510	Analysis Method:	EPA 3550/8015	Extracted:	Nov 30, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #:	911-3725	Analyzed:	Nov 30, 1989
			Reported:	Dec 1, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
911-3725	SWA	N.D.
911-3726	SWB	N.D.
911-3727	WO1	N.D.

Detection Limits: 1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager

9113725.KEI <5>



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Kapreallan Engineering, Inc. P.O. Box 996 Benicia, CA 94510 Attention: Mardo Kapreallan, P.E.	Client Project ID: Unocal, Oakland, 66th/San Leandro Matrix Descript: Soil Analysis Method: SM 503 D&E (Gravimetric) First Sample #: 911-3725	Sampled: Nov 29, 1989 Received: Nov 29, 1989 Extracted: Dec 1, 1989 Analyzed: Dec 1, 1989 Reported: Dec 1, 1989
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TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
911-3725	SWA	< 50
911-3726	SWB	< 50
911-3727	WO1	< 50

Detection Limits:	30.0
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Analytes reported as N.D. were not present above the stated limit of detection.

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9113725.KEI <6>



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Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th/San Leandro	Sampled: Nov 29, 1989
P.O. Box 996	Sample Descript: Soil, SWA	Received: Nov 29, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8010	Analyzed: Nov 30, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 911-3725	Reported: Dec 1, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	25.0	N.D.
2-Chloroethylvinyl ether.....	5.0	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	5.0	N.D.
Dibromochloromethane.....	5.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
Total 1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	10.0	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10.0	N.D.

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

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Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th/San Leandro	Sampled: Nov 29, 1989
P.O. Box 996	Sample Descript: Soil, SWB	Received: Nov 29, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8010	Analyzed: Nov 30, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 911-3726	Reported: Dec 1, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	25.0	N.D.
2-Chloroethylvinyl ether.....	5.0	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	5.0	N.D.
Dibromochloromethane.....	5.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
Total 1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	10.0	N.D.
1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10.0	N.D.

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

SEQUOIA ANALYTICAL

Belinda C. Vega
Project Manager



SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 66th/San Leandro	Sampled: Nov 29, 1989
P.O. Box 996	Sample Descript: Soil, WO1	Received: Nov 29, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8010	Analyzed: Nov 30, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 911-3727	Reported: Dec 1, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	25.0	N.D.
2-Chloroethylvinyl ether.....	5.0	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	5.0	N.D.
Dibromochloromethane.....	5.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
Total 1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	10.0	N.D.
1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10.0	N.D.

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

SEQUOIA ANALYTICAL

Belinda C. Vega
Project Manager



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER <i>Dick Bradish</i>		SITE NAME & ADDRESS <i>Unocal - Oakland 66th & San Leandro</i>			ANALYSES REQUESTED					TURN AROUND TIME: <i>24hrs</i>
WITNESSING AGENCY <i>Alameda City Health Agency</i>					TPH-G, BTXE	TPH-D	TOG (SO3D+E)	8010	Co. Cr. Pb. Zn.	

SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	NO. OF COMP CONT.	SAMPLING LOCATION	TPH-G, BTXE	TPH-D	TOG (SO3D+E)	8010	Co. Cr. Pb. Zn.	REMARKS
SWA	11/29		X		X	1	W.O. Tank Pit Sidewall	✓	✓	✓	✓	✓	9113725
SWA	11/29		X		X	1	"	✓	✓	✓	✓	✓	26
W01	11/29		X		X	1	W.O. Tank Pit	✓	✓	✓	✓	✓	27

Relinquished by: (Signature) <i>E.M. Bradish</i>	Date/Time <i>11/29/89 1605</i>	Received by: (Signature) <i>Ben Porcusk</i>	The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <i>YES</i> 2. Will samples remain refrigerated until analyzed? <i>YES</i> 3. Did any samples received for analysis have head space? <i>NO</i> 4. Were samples in appropriate containers and properly packaged? <i>YES</i>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature) <i>awc</i>	Date/Time <i>11-29-89 5:50 pm</i>	Received by: (Signature) <i>Paul [Signature]</i>	Signature <i>[Signature]</i> Title <i>[Signature]</i> Date <i>11-29-89</i>