

680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834 (415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedissian

Client Project ID: Unocal #3135, 845 66th Ave., Oakland

Matrix: Solid

QC Sample Group: 404-0160

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

RECEIVED

3:41 pm, May 13, 2009

Environmental Health

ANALYTE

Lead

Alameda County

Method: Analyst: EPA 6010

J. Dinsay

MS/MSD

Batch#:

4031417

Date Prepared:

4/6/94

Date Analyzed:

4/6/94

Instrument I.D.#: Conc. Spiked:

Liberty 100 50 mg/kg

Matrix Spike

% Recovery:

95

Matrix Spike Duplicate %

Recovery:

89

Relative %

Difference:

6.5

LCS Batch#:

BLK040694

Date Prepared:

4/6/94

Date Analyzed:

4/6/94

Instrument I.D.#:

Liberty 100

LCS %

Recovery:

90

% Recovery

Control Limits:

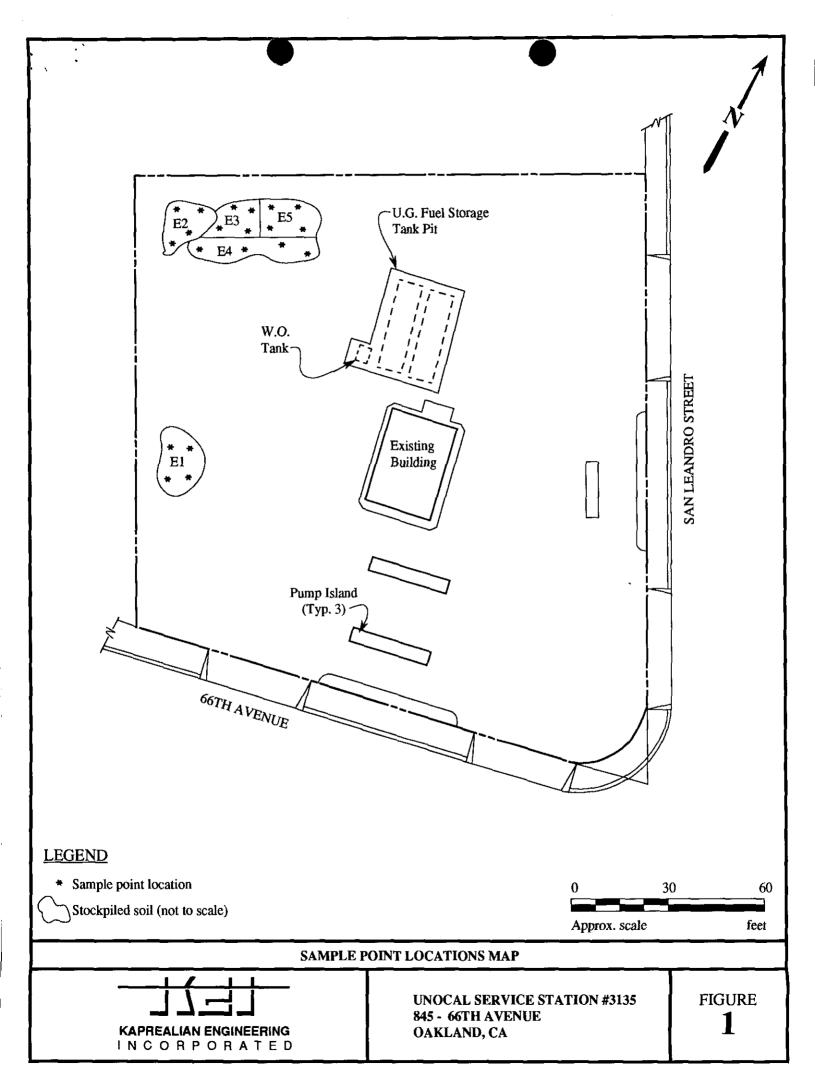
75-125

SEQUOIA ANALYTICAL

Alan B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

4040160.KEI <2>





Redwood City, CA 94063

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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedissian

Client Project ID: Sample Matrix:

Unocal #3135, 845 66th Ave., Oakland

Soil EPA 5030/8015/8020

Analysis Method: First Sample #: 403-1415

Sampled: Received:

Mar 30, 1994 Mar 30, 1994

Reported: Apr 4, 1994

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 403-1415 Comp. A	Sample I.D. Method Blank		
Purgeable Hydrocarbons	1.0	170			-
Benzene	0.005	N.D.			
Toluene	0.005	0.48		•	
Ethyl Benzene	0.005	0.098			
Total Xylenes	0.005	4.8			
Chromatogram Pat	tern:	Gasoline			

Quality Control Data

Report Limit Multiplication Factor:	50	1.0
Date Analyzed:	3/30/94	3/30/94
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	88	106

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271



Redwood City, CA 94063 Sacramento, CA 95834

415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Descript: Analysis for:

First Sample #:

Unocal #3135, 845 66th Ave., Oakland

STLC Extract of Soil STLC Lead 403-1415

Sampled: Received: Extracted: Mar 30, 1994 Mar 30, 1994 Apr 1, 1994

Analyzed: Reported:

Apr 4, 1994 Apr 4, 1994

LABORATORY ANALYSIS FOR:

STLC Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
403-1415	Comp. A	0.050	51

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

SEQUOIA ANALYTICAL, #1271



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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedissian

Client Project ID: Sample Descript:

Lab Number:

Unocal #3135, 845 66th Ave., Oakland Soil, Comp. A

403-1415

Sampled: Received: Mar 30, 1994 Mar 30, 1994

Analyzed:

3/31 & 4/4/94

Reported:

Apr 4, 1994

CORROSIVITY AND IGNITABILITY

Analyte	Detection Limit	Sample Results		
Corrosivity:	N.A.		7.7	
Ignitability: Flashpoint (Pensky-Martens), °C	N.A.		> 100 °C	

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

SEQUOIA ANALYTICAL, #1276



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Descript: Soil, Comp. A

Unocal #3135, 845 66th Ave., Oakland

Sampled: Received: Mar 30, 1994 Mar 30, 1994

Apr 4-5, 1994

Lab Number:

403-1415

Analyzed: Reported: Apr 5, 1994

REACTIVITY

Analyte	Detection Limit		Sample Results
Reactivity:			
Sulfide, mg/kg	10	***************************************	N.D.
Cyanide, mg/kg	0.50	,	N.D.
Reaction with water	N.A.	***************************************	Negative

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

SEQUOIA ANALYTICAL, #1210



Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedissian

Client Project ID: Unocal #3135, 845 66th Ave., Oakland

QC Sample Group: 403-1415

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

ANALYTE Benzen Method: EPA 802 Analyst: J. Fonted	0 EPA 8020	Ethyl Benzene EPA 8020	Xylenes EPA 8020	STLC Lead	
		EPA 8020	EPA 8020		
			EPA 8020	EDA 7400	
Analyst: J. Fonted	ha J. Fontecha			EPA 7420	
		ı J. Fontecha	J. Fontecha	K.V.S.	
			· · ·	 -	
MS/MSD					
Batch#: BLK0330	94 BLK033094	BLK033094	BLK033094	4031415	
But Bush and			- 1 1- 1		
Date Prepared: 3/30/9		3/30/94	3/30/94	4/1/94	
Date Analyzed: 3/30/9		3/30/94	3/30/94	4/4/94	
Instrument I.D.#: HP-4	HP-4	HP-4	HP-4	SpectrAA-20	
Conc. Spiked: 0.40 mg/	kg 0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	40 mg/L	
Matrix Spike					
% Recovery: 100	98	98	98	107	
% necovery. 100	90	90	96	107	
Matrix Spike					
Duplicate %					
Recovery: 105	100	100	103	109	
110001019.	100	100	100	103	
Relative %					
Difference: 4.9	2.0	2.0	4.9	1.9	
LCS Batch#: 2LCS033	94 2LCS033094	4 2LCS033094	2LCS033094	BLK040194	
Date Prepared: 3/30/9	3/30/94	3/30/94	3/30/94	4/1/94	
Date Analyzed: 3/30/9		3/30/94	3/30/94	4/4/94	
Instrument I.D.#: HP-4	HP-4	HP-4	HP-4	SpectrAA-20	
1.00 -:					
LCS %					
Recovery: 93	94	95	96	87	
% Recovery					
Control Limits: 55-145	47-149	47-155	56-140	75-125	

SEQUOIA ANALYTICAL, #1271

∆Alan B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID: Matrix:

Attention: Avo Avedissian

QC Sample Group: 403-1415

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Ignitability	Corrosivity
9 0 a Alba a alba	ED1 4040	EDA ODAE
Method:	EPA 1010	EPA 9045
Analyst:	S. Phillips	M. Nguyen

Date Analyzed:

4/4/94

3/31/94

Sample #:

Xylene;

4031415

Flashpoint = 29 °C

Sample

Concentration:

25

7.7

Sample

Duplicate Concentration:

25

7.6

% RPD:

0.0

1.3

% RPD:

Control Limits:

0-30

0-30

SEQUOIA ANALYTICAL, #1271



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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400

Concord, CA 94520 Attention: Avo Avedissian

Unocal #3135, 845 66th Ave., Oakland Client Project ID:

Matrix:

QC Sample Group: 403-1415

Reported:

Apr 7, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Reactive	Reactive
	Cyanide	Sulfide
Method:	SW 846	SW 846
Analyst:	Heider/Wang	P. Penner

Date Analyzed:

4/4/94

4/5/94

Sample #:

9404016-1

9404016-1

Sample

Concentration:

N.D.

N.D.

Sample

Duplicate Concentration:

N.D.

N.D.

% RPD:

0.0

0.0

% RPD:

Control Limits:

±20

± 20

SEQUOIA ANALYTICAL, #1210

Project Mánagér

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- D 819 Striker Ave., Suite 8 Sacramento, CA 95834 (916) 921-9600
- Q 1900 Bates Ave., Suite LM Concord, CA 94520 (510) 686-9600
- ☐ 18939 120th Ave., N.E., Suite 101 Bothell, WA 98011 (206) 481-9200
- ☐ East 11115 Montgomery, Suite B Spokane, WA 99206 (509) 924-9200
- ☐ 15055 S.W. Sequoia Pkwy, Suite 110 Portland, OR 97222 (503) 624-9800

Company Name: Ko	prealian	Engin	cerir	19 /nc	,	Project	Name:	8	45-	- 66	th 1	9ve	. (),	aklou	nal	Ca	٦
Address: 240/ 5						JNOCA								<u>~/\ {\\ \</u>	· ,		
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Telephone: 510 -								135	5				· -	<u> </u>			_
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1. Comp. A	3/30/94	Soil	4	Brass tube	5	V	V	V	V						403	1415 A	Ī
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Relinquished By:		_	Date	:	Time:	Rece	eived E	Bv Lab	:				Date:		Time:		_
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680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian Client Project ID: Unocal #3135, 845 66th Ave., Oakland Sample Descript: Soil Lead First Sample #: 404-0160

Sampled: Apr 6, 1994
Received: Apr 6, 1994
Extracted: Apr 6, 1994
Analyzed: Apr 6, 1994
Reported: Apr 7, 1994

LABORATORY ANALYSIS FOR:

Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
404-0160	E1	1.0	58
404-0161	E2	1.0	61
404-0162	E3,E4,E5	1.0	79

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

SEQUOIA ANALYTICAL, #1271

KEI-P88-1203.R16 April 21, 1994

TABLE 2
SUMMARY OF LABORATORY ANALYSES
SOIL

Sample	Total <u>Lead</u>
E1	58
E2	61
E3, E4, E5	79

Additional analytical: Composite sample E12345, STLC lead = 3.1.

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

UNOCAL @

- ☐ 680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600
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Company Name:	20.500/10	~ E	-1001	46C 51W	<u> </u>	Inc-P	roject 1	Name	: 8	45	66	He !	Juc		0	· buds	
Address: 2401	Struwe		· ·		2,		NOCA	L Pro		anager							
City: Comore	011			Zip Code:	745	30						-					
Telephone: 510-C			FAX #:5	10-68	₹ -0	6025	ite #:	31	35	>					•		
Report To:		Sample									dard)	Leve	——- el B	<u> </u>	Level C	C Level	DI
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Time: 🛄 5 Wo		24 Hours				🔲 Was	_	ter .	/5/	/ /	7	/	7	/ /	/	///	
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Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	S	boratory ample #	1/3	27								Comme	ents
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2. EZ	4/6/94 11:15		2	``(01611	· C									Composi	
3. F3	4/6/94 11:30		2	**	V	0162AF	c -										
4. E4	4/6/94 11:45		2	15			v									> GMPCS	ITE
5. ES	4/6/94 12:0	<u> </u>	2	`(رن										
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Relinquished By:	-Jol 6.	Nels	Date	:4/6/94	Time	: 14:48	Rece	eived	Ву:					Date:		Time:	
Relinquished By: Date: Time:						:	: Received By:						Date: Time:				
Relinquished By: Date: Time:					:						Time: 2:45	pm					
Were Samples Receiv	ed in Good Cond	ition? X	es 🔾 No	Sa	mples	on Ice?	Yes	O No	Met	hod of	Shipn	nent				Page <u></u> of	<u> </u>
To be completed upon 1) Were the anal 2) Was the repor	yses requested o	n the Cha															
Approved by:				Signature:					_Com	npany:						Date:	[



Redwood City, CA 94063

Lead

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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Unocal #3135, 845 66th Ave., Oakland Sample Descript: STLC Extract of Soil

Analysis for: First Sample #:

Lead

#4040160

Apr 6, 1994 Sampled: Relogged: Apr 12, 1994 Extracted: Apr 12, 1994

Analyzed: Apr 15, 1994 Reported: Apr 15, 1994

LABORATORY ANALYSIS FOR:

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
4040160-162	E(1-5)	0.050	3.1

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

SEQUOIA ANALYTICAL, #1271



Redwood City, CA 94063

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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedissian

Client Project ID: Unocal #3135, 845 66th Ave., Oakland

Matrix: STLC Extract of Soil

QC Sample Group:

Reported:

Apr 15, 1994

QUALITY CONTROL DATA REPORT

ANALYTE Lead Method: **EPA 7470** Analyst: K.V.S.

MS/MSD

Batch#:

4040462

Date Prepared:

4/12/94

Date Analyzed: Instrument I.D.#:

4/15/94 SpectrAA-20

Conc. Spiked:

30 mg/L

Matrix Spike

% Recovery:

104

Matrix Spike **Duplicate %**

Recovery:

102

Relative %

Difference:

1..9

LCS Batch#:

BLK041294

Date Prepared:

4/12/94

Date Analyzed:

4/15/94

Instrument I.D.#:

SpectrAA-20

LCS %

Recovery:

81

% Recovery

Control Limits:

B. Kemp Project Manager 75-125

Please Note:

SEQUOIA ANALYTICAL. #1271

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA/UNOCAL ANALYTICAL RELOG SHEET

PROJECT ID: PROJ. MANAGER: DATE REC'D: 以し	MNOCAZ # 3135	DATE RELOG: DATE DUE: DATE SAMP: T.A.T	4-12-94 4-15-94 4-6-94 724
	e status to:	īme:	
CHANGE ANALYS Add Analyses: Cancel Analyses			
Sample Number 4040160 161 110.2	Analyses Composite	FOR TLC Ph	
SAMPLES ON HOLD Add an Sample description	alyses		
Client Authorization (F Project Manager	Person/Date/filme) WYTRI (Please submit to sample control wit	th a copy of the COC &	log-in sheets)
1) Were the analys		nd time?YesN	No If no, what analyses are still needed of If no, what was the turnaround time? Rev2.0.ADS mpany:

UNOCAL @

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U East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9269 ↔ DI ↔ CI 15055 S.W. Sequola Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9806 ◎ DI ◎

Company Name:	20 rec/10	~ E	2: 2:	165 6171	<i>V</i>	vС - Р	roject N	łame:	81	1.5	66	m	120		<u>O°'</u>	6/00)√6 3>6 3>6
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City: Comoun				Zip Code: ^C	ીપકરૂ	0						·					n Ti	טינו טינו
Telephone: 510 - 6			FAX#S	10-68	7-06	ᢗᠴᢄ	te #:	<u>31</u>	3 <u>\$</u>	>								Client
Report To:		Sample	r:			Q	C Data	: U l	_evel A	(Stand	ard) (1 Leve	el B	QL	evel C	<u> </u>	evel D គឺ	∴ Be
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Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	San	oratory nple #	1/5	<u> </u>								Co	ក្តា mments ប	aaa 3333
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KEI-P88-1203.R16 April 21, 1994

Unocal Corporation 2000 Crow Canyon Place, Suite 400 P.O. Box 5155 San Ramon, California 94583

Attention: Mr. Tim Howard

RE: Stockpiled Soil Sampling for Unocal Service Station #3135

845 - 66th Avenue Oakland, California

FILE # 3/35 SS BP_	_
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Dear Mr. Howard:

This report summarizes the analytical results of the composite soil samples that were collected from the stockpiled soil at the referenced site. The soil analyses were conducted to comply with the local regulatory agency requirements for proper disposal of potentially contaminated soil.

On March 30, 1994, soil samples from approximately 100 cubic yards of stockpiled soil that had been excavated from the pump islands were collected to determine proper disposal of the soil. One composite soil sample (designated as Comp A) was taken. The composite sample consisted of four individual grab samples taken at various locations and at depths of approximately 2 feet into the stockpile. The individual samples were subsequently composited as one sample by the lab. 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. The sample was analyzed at Sequoia Analytical Laboratory in Concord, California, and was accompanied by properly executed Chain of Custody documentation.

On April 6, 1994, Kaprealian Engineering, Inc. (KEI) returned to the site to collect soil samples from approximately 100 cubic yards of stockpiled soil. Five composite samples (designated as E1, E2, E3, E4, and E5) were collected and stored as described above. The composite soil sample E3, E4, and E5 were further composited as one sample by the lab per the landfill requirements. Sample point locations are as shown on the attached Site Plan, Figure 1.

Soil samples were analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, and benzene, toluene, ethylbenzene, and xylenes by EPA method 8020, reactivity, ignitability, and corrosivity. In

KEI-P88-1203.R16 April 22, 1994 Page 2

addition, samples E1, E2, and E345 were analyzed for total lead. In addition, E1, E2, and E345 were composited as one sample by the lab and analyzed for lead by the use of soluble threshold limit concentrations (STLC) waste extraction test per the requirements of the landfill for disposal. Results of the soil analyses are summarized in Table 1. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

Based on the analytical results of the soil samples, approximately 100 cubic yards of stockpiled soil were profiled for disposal to Forward Landfill in Stockton, California (an approved Class II/III disposal and treatment facility). On April 13, 1994, Dillard Trucking of Byron, California, relocated 144 cubic yards of soil from the site to Forward Landfill where the soil was stockpiled until further analytical results (STLC lead) were received. The actual transported soil was 44 cubic yards over our original estimation.

Should you have any questions on this report, please do not hesitate to contact me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Nayiri Kaloustian

Technical Assistant

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Attachments: Tables 1 & 2

Site Plan - Figure 1 Laboratory Analyses

Chain of Custody documentation

KEI-P88-1203.R16 April 21, 1994

TABLE 1

SUMMARY OF LABORATORY ANALYSES SOIL

<u>Date</u>	Sample	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	Xylenes
3/30/94	Comp A*	170	ND	0.48	0.098	4.8

* Additional analytical: Corrosivity = 7.7, Ignitability = >100°C, Reactivity = ND.

ND = Non-detectable.

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