KEI-J92-0502.R1 June 29, 1992

Paradiso Construction P.O. Box 1836 San Leandro, California 94577

Attention: Mr. Paul Paradiso

RE: Soil Sampling Report Alameda Electric 2420 Blanding Avenue Alameda, California

Dear Mr. Paradiso:

t

This report summarizes the soil sampling performed by Kaprealian Engineering, Inc. (KEI) at the referenced site. All work was performed in compliance with the guidelines established by the Regional Water Quality Control Board (RWQCB) and the Alameda County Health Care Services Agency (ACHCS).

The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies

Collection of soil samples from the fuel tank pit sidewalls, and from beneath the product dispenser and product piping

Collection of water samples from the fuel storage tank pit

Delivery of samples, including proper Chain of Custody documentation, to a certified analytical laboratory

Technical review and preparation of this report

SITE DESCRIPTION AND BACKGROUND

The subject site formerly contained two underground gasoline storage tanks. A Location Map and a Site Plan are attached to this report. No leaks or previous subsurface work performed at the site are known to KEI.

FIELD ACTIVITIES

KEI's field work was conducted on May 15, 1992, when two underground 1,000 gallon gasoline storage tanks were removed from the site. The tanks were made of steel and no apparent holes or cracks

KEI-J92-0502.R1 June 29, 1992 Page 2

were observed in the tanks. Mr. Kevin Tinsley of the ACHCS was present during tank removal and subsequent soil sampling. Mr. David Costa of the Alameda Fire Department was also present during tank removal.

Water was encountered in the fuel tank pit at a depth of approximately 6.5 feet below grade, thus prohibiting the collection of any soil samples from immediately beneath the tanks. Per the direction of Mr. Kevin Tinsley, five soil samples, labeled SW-1 through SW-5, were collected from the sidewalls of the fuel tank pit, each approximately six inches above the observed water table. samples, labeled D1 and P1, were collected from beneath the former product dispenser and the product piping, respectively, at depths of about 3 feet below grade. The undisturbed samples were collected from bulk material excavated by backhoe. were placed in clean, two-inch diameter brass tubes that were then sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a state-certified laboratory. sample point locations are as shown on the attached Site Plan. water samples, labeled W-1 and W-2, were collected from the fuel tank pit, each in four clean glass VOA vials with Teflon screw The water samples were stored and delivered as described caps. above.

REGIONAL GEOLOGY AND SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavation consisted primarily of clayey sandy silt. Ground water was encountered in the fuel tank pit at a depth of approximately 6.5 feet below grade.

ANALYTICAL RESULTS

All soil and water samples were analyzed by Sequoia Analytical Laboratory in Concord, California and were accompanied by properly executed Chain of Custody documentation. All samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030 in conjunction with modified 8015, benzene, toluene, xylenes, and ethylbenzene (BTX&E) by EPA method 8020, and organic lead by the DHS LUFT Manual method (12/87).

Analytical results of the soil samples collected from the sidewalls of the fuel tank pit, and from beneath the dispenser and product piping indicated non-detectable levels of TPH as gasoline, benzene, and organic lead for all samples, except for sample D1, which showed 1.3 ppm of TPH as gasoline. The results of the soil analyses are summarized in Table 1.

Analytical results of the water samples (W1 and W-2) collected from the fuel tank pit indicated non-detectable levels of TPH as

KEI-J92-0502.R1 June 29, 1992 Page 3

gasoline, BTX&E, and organic lead, except for 110 ppb of TPH as gasoline detected in sample W-2. The results of the water analyses are summarized in Table 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

DISTRIBUTION

A copy of this report should be sent to ACHCS, and to RWQCB, San Francisco Bay Region.

LIMITATIONS

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field work and laboratory analyses. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

KEI-J92-0502.R1 June 29, 1992 Page 4

Should you have any questions regarding this report, please feel free to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Hagop Kevork

Project Engineer

Joel G. Greger, C.E.G.

Senior Engineering Geologist

License No. 1633 Exp. Date 6/30/92

Timothy R. Ross Project Manager

/bp

Attachments: Tables 1 & 2

Location Map Site Plan

Laboratory Analyses

Chain of Custody documentation

KEI-J92-0502.R1 June 29, 1992

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Date</u>	Sample <u>Number</u>	Depth (feet)	TPH as <u>Gasoline</u>	<u>Benzene</u>	Toluene X		Ethyl- benzene	Organic <u>Lead</u>
5/15/92	SW1 SW2 SW3 SW4 SW5	6 6 6 6 3 3	ND ND ND ND ND	ND ND ND ND ND	ND 0.0094 ND ND ND 0.0057 0.0061	0.014 ND ND	ND O.0061 ND ND ND ND ND ND ND	ND ND ND ND ND
Detection Limits	on		1.0	0.0050	0.0050	0.0050	0.0050	0.050

ND = Non-detectable.

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

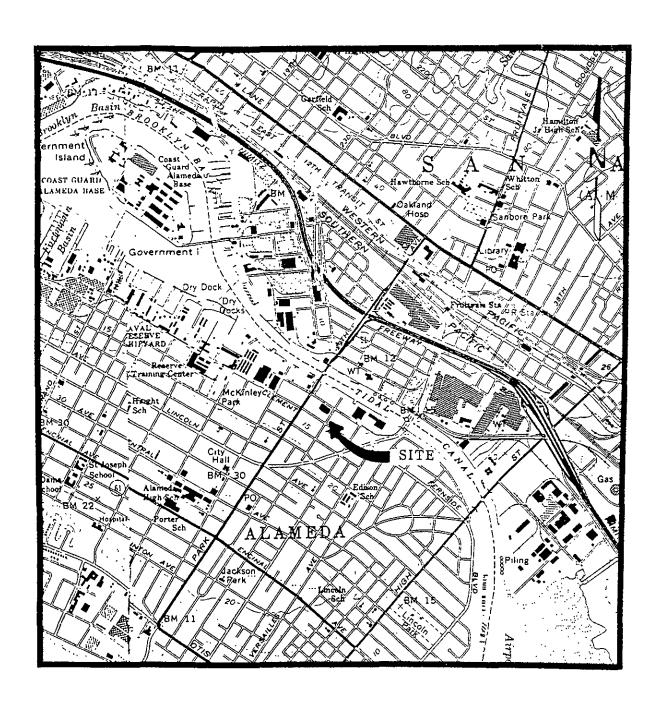
KEI-J92-0502.R1 June 29, 1992

TABLE 2
SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	Sample <u>Number</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	Ethyl- <u>benzene</u>	Organic Lead (ppm)
5/15/92	W-1 W-2	ND 110	ND ND	ND ND	ND ND	ИD	ND ND
Detecti Limits	on	30	0.30	0.30	0.30	0.30	0.050

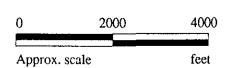
ND = Non-detectable.

Results in parts per billion (ppb), unless otherwise indicated.



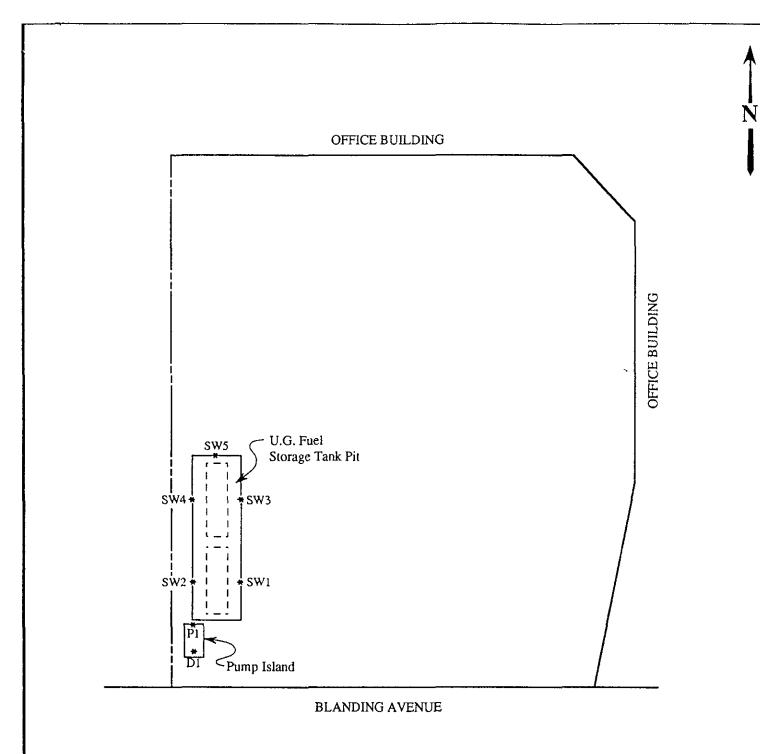
Base modified from 7.5 minute U.S.G.S.

Oakland East and West Quadrangles (both photorevised 1980)





ALAMEDA ELECTRIC 2420 BLANDING AVENUE ALAMEDA, CA LOCATION MAP



LEGEND

* Sample Point Location

NOT TO SCALE



ALAMEDA ELECTRIC 2420 BLANDING AVENUE ALAMEDA, CA SITE PLAN Kaprealian Engineering, Inc. 2401 Stanwell Drive, Suite 400

Client Project ID: Matrix Descript:

CRECONSISTENCE OF THE PROPERTY Soil Alameda

Sampled: May 15, 1992 Received: May 18, 1992

Concord, CA 94520

Analysis Method:

EPA 5030/8015/8020

Analyzed: 5/28 & 5/29/92 8

Attention: Mardo Kaprealian, P.E.

First Sample #:

205-0782

Reported: Jun 2, 1992 🖔 ad filikatangan kangangan dibini si kili mangkangan dang kangan kangangan kangan kangan kangan kangan kangan k

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)
205-0782	SW 1	N.D.	N.D.	N.D.	N.D.	N.D.
205-0783	SW 2	N.D.	N.D.	0.0094	0.0061	0.045
205-0784	SW 3	N.D.	N.D.	N.D.	N.D.	0.014
205-0785	SW 4	N.D.	N.D.	N.D.	N.D.	N.D.
205-0786	SW 5	N.D.	N.D.	N.D.	N.D.	N.D.

Method Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager

2050782.KEI <1>

Kaprealian Englineering, Inc. 2401 Stanwell Drive, Suite 400

Concord, CA 94520 Attention: Mardo Kaprealian, P.E.

Sample Descript: Analysis Method:

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave Sampled: Soil

California LUFT Manual, 12/87

May 15, 1992 Received: May 18, 1992

Extracted: May 22, 1992 May 22, 1992 ... Analyzed:

First Sample #: 205-0782

Reported: És et par et expressione et un ett en entre constant et de social apparation de de la constant de de la constant de la constan

Jun 2, 1992

ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/kg (ppm)
205-0782	SW 1	N.D.
205-0783	\$W 2	N.D.
205-0784	SW 3	N.D.
205-0785	SW 4	N.D.
205-0786	SW 5	N.D.

Detection Limits:	0.050		
	•.••		

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

SEQUOIA ANALYTICAL

Kaprealian Engineering, Inc. 2401 Stanwell Drive, Suite 400 Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda

Concord, CA 94520

Attention: Mardo Kapreailan, P.E. QC Sample Group: 2050782-786

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-				
	Benzene	Toluene	Benzene	Xylenes	Organic Lead		
<u> </u>							
	EPA	EPA	EPA	EPA			
Method:	8015/8020	8015/8020	8015/8020	8015/8020	LUFT		
Analyst:	J.F.	J.F.	J.F.	J.F.	K. Anderson	`	
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
Date Analyzed:	May 28, 1992	May 28, 1992			May 22, 1992		
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	205-0737		
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.		
Spike Conc.							
Added:	0.40	0.40	0.40	1.2	10		
Conc. Matrix							
Spike:	0.45	0.46	0.47	1.4	10		
Matrix Spike	1113	115	118	117	100		
% Recovery:	1113	115	110	117	100		
Conc. Matrix							
Spike Dup.:	0.45	0.46	0.47	1.4	9.9		
Matrix Spike							
Duplicate 20 December 20 Decem	440	445	110	447	00		
% Recovery:	113	115	118	117	99		
Relative							
% Difference:	0.0	0.0	0.0	0.0	1.0		

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

cott A. Chieffo Project Manager

% Recovery:	Conc. of M.S Conc. of Sample	x 100	
	Spike Conc. Added	•	
į			

Conc. of M.S. - Conc. of M.S.D. x 100 Relative % Difference: (Conc. of M.S. + Conc. of M.S.D.) / 2

2050782.KEL < 3

geri mesi da Kaprealian Engineering, Inc.

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda

P.O. Box 996

∄Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. And the various will be the relation of the control of the passes and the property of the passes of

QC Sample Group: 2050782-786

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

Reporting Units:

Date Analyzed:

Sample #:

Method: Analyst:

EPA 8015/8020 J.F. mg/kg

May 28, 1992

205-0782

8015/8020 J.F. mg/kg May 28, 1992

205-0783

EPA

EPA 8015/8020 J.F. mg/kg

205-0784

8015/8020 J.F. mg/kg

205-0785

EPA

8015/8020 J.F. mg/kg

205-0786

EPA

8015/8020 J.F. mg/kg

EPA

May 28, 1992 May 28, 1992 May 28, 1992 May 28, 1992 Matrix Blank

Surrogate

% Recovery:

102

103

100

100

100

100

SEQUOIA ANALYTICAL

Project Manager

% Recovery:

Conc. of M.S. - Conc. of Sample

x 100

Spike Conc. Added

(Conc. of M.S. + Conc. of M.S.D.) / 2

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D.

x 100

2050782.KEL < 4



CHAIN OF CUSTODY

SAMPLER	Cill			^		Si	ITE NAI	TE & ADDRESS	1.			ANALYSE	S REQUI	ESTED		TURN AROUND TIME:
WITNESSING AC			- (-1. (-1.	('ce v .aw (moder Electric - Paradiso cola - 2420 B (anding Avr			X III					LI Elalicitic			
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	СОМР	NO. OF CONT.	SAMPLI LOCATI		HUL	1377					REMARKS
SWI	5/15/13		/		١		١	Fuel Tou	K Pit	V	1					2050782
Sug			V		v'					V	V					783
Sw3			V		v'		1			V	V					784
SW4			V		V		١			V	/					785
SW5			V		V		1		<i>(</i>	V	V					786
			<u>-</u>													
<u> </u>						 (\bigvee^{ν}									
Relinquisfied	nosis	Market 1	5 j	ate/Tir	Am		<u> </u>	ed by: (Signature			for a	nal vs i :	: :			the laboratory accepting samples
Relinquished	by: (Sig	jnature)	D	ate/Tir	ne	'	Receive	ed by:(\$ignature	7 O	2. Will samples remain refrigerated until analyzed?						
Relinquished	by: (Sig	nature)	D	ate/Tir	ne	ı	Receive	ed by: (Signature	:)	3. Did any samples received for analysis have head space?						
Relinquished	by: (Sig	nature)	D	ate/Tir	ne	,	Receivo	ed by: (Signature	•)		4. h	lere san Signa	1	n approp	12	tainers and properly packaged?

organic lead on all sample. as per Haij

2401 Stanwell Drive, Suite 400 Cancord, California 91520 Tel 510 602 5100 - Eax 510 687 0602 Kaprealian Engineering, Inc. 2401 Stanwell Drive, Suite 400

Concord, CA 94520 Attention: Mardo Kaprealian, P.E.

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave

Sampled: Alameda

May 15, 1992

Matrix Descript: Analysis Method:

Soil

EPA 5030/8015/8020

Received: Analyzed:

May 18, 1992 5/28-5/29/92

First Sample #: TOWNS TO THE PROPERTY OF THE P

205-0777

Reported:

Jun 2, 1992

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)
205-0777	D1	1.3	N.D.	0.0057	N.D.	0.0073
205-0778	P1	N.D.	N.D.	0.0061	N.D.	0.014

Method Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Kaprealian Engineering, Inc. Client Project ID: 2401 Stanwell Drive, Suite 400

Concord, CA 94520 Attention: Mardo Kaprealian, P.E. Sample Descript:

Analysis Method:

First Sample #:

Alameda Electric-Paradiso,2420 Blanding Ave Soil

Alameda California LUFT Manual, 12/87

Sampled: May 15, 1992 Received: May 18, 1992;

Extracted: May 22, 1992 Analyzed: May 22, 1992

Reported: Jun 2, 1992; There was not an accomplete consists and the consists of the consist of the consist of the consist and the con

ORGANIC LEAD

205-0777

Sample Number	Sample Description	Sample Results mg/kg (ppm)
205-0777	ום	N.D.
205-0778	P1	N.D.

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

SEQUOIA ANALYTICAL

KAPREALIAN ENGINEERING

CHAIN OF CUSTODY

AMPLER	-lou's	1)	اء م	SITE NAME & ADDRESS ANALYSES REQUESTED TURN AROUND TIME: REGULAP				ANALYSES REQUESTED				TURN AROUND TIME: REGULAR	
ITHESSING A	GENCY		(f)	Cam Jam	e d	or ~	24	ectric-Paradiso 20 Blanding Ave	(p)	Ü Ü					
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	出山	BTX					REMARKS
DI	5/15/12		/		/		1	Beneath Dispenser Product Pipe Trench	/						2050777
PI	5/15/92		V		V		١	Product Pipe Trenck	V	V					V 778
				_											
							-								
· · · · · · · · · · · · · · · · · · ·															
									•						
									- 						
iel Inquished	by dsi	gnature)	5-	145	The stan		Regenv	ed by: Rignature)		for a	nalysis	:			y the laboratory accepting samples
tel inquished	 			ate/Tin			Receive	ed-by: (Signature)							analysis been stored in ice? ted until analyzed?
tetinquished	l by: (Si	gnature)	Di	ate/Tin	ne	1	Receive	ed by: (Signature)				•			analysis have head space?
telinquished	by: (Si	gnature)	Di	ate/Tin	ne		Receive	ed by: (Signature)		4. W	Signa		n appr	opriate c	ontainers and properly packaged? 5-/8-12 Title Date

organic lead on all samples in per Hair

2401 Stanwell Drive, Suite 400
Concord, California 94520
Tel 510 602 5100 Fax 510 687 (X02

2401 Stanwell Drive, Suite 400

Kaprealian Engineering, Inc. Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda

Concord, CA 94520

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050777-778 Trock of the termination of the contract of th

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-					
	Benzene	Toluene	Benzene	Xylenes	Organic Lead			
	EDA	EPA	EPA	EPA				
Method:	EPA 8015/8020	8015/8020	8015/8020	8015/8020	LUFT			
	•	•	J.F.	J.F.	K.Anderson	~		
Analyst:	J.F.	J.F.						
Reporting Units:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Date Analyzed:	May 28, 1992	May 28, 1992	•	-	May 22, 1992			
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	205-0737		1	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.			
Spike Conc.								
Added:	0.40	0.40	0.40	1.2	10			
Conc. Matrix								
Spike:	0.45	0.46	0.47	1.4	10			
Matrix Spike								
% Recovery:	113	115	118	117	100			
Cone Motely								
Conc. Matrix Spike Dup.:	0.45	0.46	0.47	1.4	9.9			
Matrix Spike								
Duplicate								
% Recovery:	113	115	118	117	99			
	v - -				•			
Relative								
% Difference:	0.0	0.0	0.0	0.0	1.0			

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

% Recovery:	Conc. of M.S Conc. of Sample	x 100	
_	Spike Conc. Added		
Relative % Difference:	Conc. of M.S Conc. of M.S.D.	x 100	
_	(Conc. of M.S. + Conc. of M.S.D.) / 2		20E0777 KEL - 25

Kaprealian Engineering, Inc.

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050777-778 ในมาการ (1775) - รามประกัจน์แลวมทั้ง พระการแบบและสินสันสายตามสามารถการทราบสามารถการทางสายสามารถสามารถสามารถสาย

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

Method:

Analyst:

Reporting Units:

Date Analyzed:

Sample #:

EPA 8015/8020

J.F. mg/Kg

5/28-5/29/92 205-0777

EPA

8015/8020 J.F. mg/Kg

5/28-5/29/92 205-0778

EPA 8015/8020

J.F. mg/Kg May 28, 1992

Blank

Surrogate

% Recovery:

110

100

100

SEQUOIA ANALYTICAL

% Recovery:

Conc. of M.S. - Conc. of Sample Spike Conc. Added

x 100

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2 x 100

Kaprealian Engineering, Inc. 2401 Stanwell Drive, Suite 400 Concord, CA 94520 Attention: Mardo Kaprealian, P.E.

Client Project ID: A Matrix Descript: Analysis Method:

Alameda Electric-Paradiso,2420 Blanding Ave Water

Alameda

May 15, 1992 Sampled: Received: May 18, 1992

Analyzed:

May 26, 1992

First Sample #: 205-0779 Anna or and table to be the interest of the experience of the product of the control of the product of the prod

Reported: Jun 2, 1992 oden**isuusuvava**aseenaameerk teelladio

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

EPA 5030/8015/8020

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons µg/L	Benzene µg/L	Toluene μg/L	Ethyl Benzene µg/L	Xylenes μg/L
205-0779	W-1	(ppb) N.D.	(ppb) N.D.	(ppb) N.D.	(ppb) N.D.	(ppb) N.D.
205-0780	W-2	110	N.D.	N.D.	N.D.	N.D.

.30	
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Project Manager

Kapreallan Engineering, Inc. Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave Sampled: May 15, 1992 2401 Stanwell Drive, Suite 400 Concord, CA 94520

Attention: Mardo Kaprealian, P.E.

Sample Descript: Analysis Method:

First Sample #:

Şoil California LUFT Manual, 12/87

Alameda

Received: May 18, 1992

Extracted: May 22, 1992 Analyzed: May 22, 1992

Jun 2, 1992 Reported:

ORGANIC LEAD

205-0779

Sample Number	Sample Description	Sample Results mg/kg (ppm)
205-0779	W-1	N.D.
205-0780	W-2	N.D.

ection Limits:	0.050	
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Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Kaprealian Engineering, Inc. 2401 Stanwell Drive, Suite 400

Client Project ID: Alameda Electric-Paradiso, 2420 Blanding Ave., Alameda

Concord, CA 94520

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050779-780 Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-				
	Benzene	Toluene	Benzene	Xylenes	Organic Lead		
	EPA	EPA	EPA	EPA			
Method:	8015/8020	8015/8020	8015/8020	8015/8020	LUFT		
Analyst:	J.Dinsay	J.Dinsay	J.Dinsay	J.Dinsay	K.Anderson	•	
Reporting Units:	ug/L	ug/L	ug/L	ug/L	mg/L	•	
Date Analyzed:	May 26, 1992	May 26, 1992			May 21, 1992		
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	205-0750		
αο σαπρι ο π .	PRINCIP DIGITA	MALIA DIAIIK	HUSSIA CHAIR	HIGHN DIGHT	200-01-00		
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.		
0							
Spike Conc.	40	4 M	40	00	40		
Added:	10	10	10	30	10		
Conc. Matrix							
Conc. Matrix Spike:	9.8	9.9	9.7	30	10		
ohike:	ə.o	9.9	Ð. <i>1</i>	JU	10		
Matric Caiba							
Matrix Spike	98	99	97	99	100		
% Recovery:	90	99	ម	33	100		
Conc. Matrix							
Spike Dup.:	10	10	10	30	10		
օիւռբ ուռի։:	i U	10	10	30	10		
Matrix Spike							
Duplicate							
% Recovery:	100	100	100	100	100	•	
		.00	.50		.00		
Relative							
% Difference:	2.0	1.0	3.0	1.3	0.0		
% Dilletelice:	2.0	1.0	3.0	1.3	0.0		

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

% Recovery:	Conc. of M.S Conc. of Sample Spike Conc. Added	x 100		
Relative % Difference:	Conc. of M.S Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100	2050779 KE! <3>	

Kapreallan Engineering, Inc. Cli

Client Project ID: Alameda Electric-Paradiso, 2420 Blanding Ave., Alameda

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050779-780

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

EPA

8015/8020

8015/8020

EPA 8015/8020

J.Dinsay

J.Dinsay ug/L

J.Dinsay

Reporting Units: Date Analyzed:

ug/L May 26, 1992

May 26, 1992

EPA

ug/L May 26, 1992

Sample #:

Method:

Analyst:

205-0779

205-0780

Blank

Surrogate

% Recovery:

93

90

108

SEQUOIA ANALYTICAL

Project Manager '

% Recovery:

Conc. of M.S. - Conc. of Sample

Spike Conc. Added

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2 x 100

x 100

2050779.KE!



CHAIN OF CUSTODY

SAMPLER	cerci			0	0	SI	ITE NAI	HE & ADDRESS			ANALYSE	S REQU	ESTED	· · · · · · · · · · · · · · · · · · ·		TURN AROUND TIME: REGULAR
WITNESSING A	GENCY		A	Car.	ne.	UU U -	24	ectric-Paradiso 20 Blanding Ave	9	1						
SAMPLE ID NO.	DATE	TIME		WATER			NO. OF	SAMPLING LOCATION	I de	8TX						REMARKS
W-1	5/15/92			v			4	Fuel Touk Pit	V	\ <u>\</u>	/					2050779AD J 780AD
W-2	5/15/92			V		V	4	Fuel Touk Pit	V	V	/					1 780AD
			_													
)				\ \	_								
ale linguished	S) sig	natured (0)	5-2	0:45	TAL	, ,	ece V	ed by: (Signature)		for	analysis	:		•		the laboratory accepting samples
Relinquished	by: (Sig	nature	Da	ate/Tin	ne	F	Receive	ed by: (Signature)				•				d until analyzed?
Relinquished	by: (Sig	nature)	Da	ate/lin	ne		Receive	ed by: (Signature)			-					alysis have head space?
Relinquished	by: (Sig	nature)	Da	ate/Tio	ne	F	Receive	ed by: (Signature)		4.	Signa	ples 1	n appr	opriat	F	tle Date

Organic lead on all samples as per Haig

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel \$10.602 \$100 Fax \$10.607 0602 Kaprealian Engineering, Inc. 2401 Stanwell Drive, Suite 400

Concord, CA 94520

Attention: Mardo Kaprealian, P.E. - Principalitan - Principal de la completa de la compressió de la completa del completa de la completa del completa de la completa del la completa del la completa del la completa del la completa de la completa del la c

Matrix Descript: Analysis Method:

First Sample #:

Client Project ID: Alameda Electric-Paradiso, 2420 Blanding Ave Soil

EPA 5030/8015/8020

May 15, 1992 Sampled: Received:

Alameda

May 18, 1992 8 Analyzed: 5/28 & 5/29/92

205-0782

Jun 2, 1992 Reported:

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)
205-0782	SW 1	N.D.	N.D.	N.D.	N.D.	N.D.
205-0783	SW 2	N.D.	N.D.	0.0094	0.0061	0.045
205-0784	SW 3	N.D.	N.D.	N.D.	N.D.	0.014
205-0785	SW 4	N.D.	N.D.	N.D.	N.D.	N.D.
205-0786	SW 5	N.D.	N.D.	N.D.	N.D.	N.D.

Method Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Kapreallan Engineering, Inc. 2401 Stanwell Drive, Suite 400 Concord, CA 94520

Attention: Mardo Kaprealian, P.E.

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave Sampled: May 15, 1992

Sample Descript: Analysis Method: Soil Alameda California LUFT Manual, 12/87

Received: Extracted: May 18, 1992 May 22, 1992

First Sample #:

205-0782

Analyzed: Reported:

May 22, 1992 Jun 2, 1992

ORGANIC LEAD

Barana dalah dalah dalah beradak beradak berampungkan beradak beradak beradak beradak beradak beradak beradak b

Sample Number	Sample Description	Sample Results mg/kg (ppm)
205-0782	SW 1	N.D.
205-0783	SW 2	N.D.
205-0784	SW 3	N.D.
205-0785	SW 4	N.D.
205-0786	SW 5	N.D.

Detection Limits: 0.050

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

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager

2050782.KEI <2>

Kapreallan Engineering, Inc. Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda 2401 Stanwell Drive, Suite 400

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050782-786 Angertage of the second commence of the commen

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-		, _V		
	Benzene	Toluene	Benzene	Xylenes	Organic Lead		
			FD.	ED.			
8.4 = ≥2= = =1.	EPA	EPA	EPA	EPA	LUFT		
Method:	8015/8020	8015/8020	8015/8020 J.F.	8015/8020 J.F.	LUF1 K. Anderson		
Analyst:	J.F.	J.F.					
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	`	
Date Analyzed:	May 28, 1992	May 28, 1992	•	-	May 22, 1992		
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	205-0737		
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.		
Spike Conc.							
Added:	0.40	0.40	0.40	1.2	10		
Conc. Matrix							
Spike:	0.45	0.46	0.47	1.4	10		
Matrix Spike							
% Recovery:	1113	115	118	117	100		
Conc. Matrix	A 4#	0.40	A 4~		0.0		
Spike Dup.:	0.45	0.46	0.47	1.4	9.9		
Matrix Spike							
Duplicate							
% Recovery:	113	115	118	117	99		
Datation							
Relative	0.0	0.0	0.0	0.0	4.0		
% Difference:	0.0	0.0	0.0	0.0	1.0		

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

% Recovery:	Conc. of M.S Conc. of Sample	x 100	
	Spike Conc. Added		
Relative % Difference:	Conc. of M.S Conc. of M.S.D.	x 100	
	(Conc. of M.S. + Conc. of M.S.D.) / 2		2050782.KEI <3>

Kaprealian Engineering, Inc.

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda

P.O. Box 996

Benicia, CA 94510

Benicia, CA 94510
Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050782-786 Reported: Jun 2, 1992 Attention: Mardo Kaprealian, P.E.

QUALITY CONTROL DATA REPORT

SURROGATE

EPA EPA EPA EPA EPA EPA Method: 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 8015/8020 Analyst: J.F. J.F. J.F. J.F. J.F. J.F. Reporting Units: mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Date Analyzed: May 28, 1992 Sample #: 205-0782 205-0783 205-0784 205-0785 205-0786 Matrix Blank

Surrogate

% Recovery: 102 103 100 100 100 100

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager % Recovery: Conc. of M.S. - Conc. of Sample

Spike Conc. Added

Conc. of M.S. - Conc. of M.S.D. x 100 Relative % Difference:

(Conc. of M.S. + Conc. of M.S.D.) / 2

2050782.KEL < 4

x 100



CHAIN OF CUSTODY

SAMPLER	(cei'ch		T_{α}			S	ITE NA	ME & ADDRESS			····	ANALYSE	S REQUE	STED	,	TURN AROUND TIME: REGULAR
WITHESSING A			(d. A(Cocu .aun	nec cctc	(ct t -	に 以 り	ectric - Paro 20 B (andi	ug Ave		X E	:				T/ETYCLE (1) C
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	СОНР	NO. OF CONT.	SAMPLING LOCATION		世上	スナン					REMARKS
Suil	5/15/92		/		l. /			Fuel Touk	P; t	V	V					2050782
Sirg			V		v'		1			V	V					783
Sw3			V		U					V	V					784
Sw4			V		V		1			V	/				_	785
SW5			ν		V		1	V		V	V					786
4	/\						<u></u>									
Relinquis fed	Ksig	gnature)	5 <u>~</u>	ate/Ti	me Am	`		ed by: (§ignature)			for a	analysis	:			the laboratory accepting samples
Relinquished	lby: (Sig	gnature)	D	ate/Ti	me	ſ	≀ece i v	ed by: -(\$ignature) (<u> </u>							d until analyzed?
Relinquished	by: (Sig	gnature)	D	ate/Tir	me	F	leceive	ed by: (Signature)								alysis have head space?
Relinquished	by: (Sig	gnature)	Di	ate/Tir	ne	F	leceive	ed by: (Signature)			4. i	Signa	4	appropr	- 12	tainers and properly packaged?

organic lead on all rample as per Haig

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel: 510 602 5100 - £ax: 510 687 0002 2401 Stanwell Drive, Suite 400

Matrix Descript:

Kaprealian Engineering, Inc. Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave Soil Alameda

Sampled: May 15, 1992 May 18, 1992 Received:

Concord, CA 94520 Attention: Mardo Kaprealian, P.E.

Analysis Method: First Sample #:

EPA 5030/8015/8020 205-0777

Analyzed: 5/28-5/29/92 Reported: Jun 2, 1992

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

na para na para

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)
205-0777	D1	1.3	N.D.	0.0057	N.D.	0.0073
205-0778	P1	N.D.	N.D.	0.0061	N.D.	0.014

Method Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050	l

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Kapreallan Engineering, Inc. Client Project ID: 2401 Stanwell Drive, Suite 400 Concord, CA 94520

Attention: Mardo Kaprealian, P.E.

Sample Descript: Analysis Method:

First Sample #:

Alameda Electric-Paradiso,2420 Blanding Ave Sampled: May 15, 1992

Alameda California LUFT Manual, 12/87

Received: May 18, 1992

Extracted: Analyzed:

May 22, 1992

Reported: and the contraction of the contr

May 22, 1992 Jun 2, 1992

ORGANIC LEAD

205-0777

Sample Number	Sample Description	Sample Results mg/kg (ppm)
205-0777	D1	N.D.
205-0778	P1	N.D.

Detection Limits: 0.050

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

SEQUOIA ANALYTICAL

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050777-778

Strate (1901) in Comparison and the comparison of the comparison o

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-				
	Benzene	Toluene	Benzene	Xylenes	Organic Lead		
	501	MD4	EPA	EPA			
Method:	EPA 8015/8020	EPA 8015/8020	8015/8020	8015/8020	LUFT		
Analyst:	J.F.	5015/8020 J.F.	30 15/8020 J.F.	J.F.	K,Anderson		
Reporting Units:	л.г. mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	`	
Date Analyzed:	May 28, 1992	May 28, 1992	-, -		May 22, 1992		
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	205-0737		
QO oampie #.	WISHIX DIGITA	WIAGIX DIAIR	IVIALLIA DIALIA	Many Dialiy	200-0757		
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.		
Spike Conc.							
Added:	0.40	0.40	0.40	1.2	10		
Conc. Matrix			0.47				
Spike:	0.45	0.46	0.47	1.4	10		
Madrin Crito							
Matrix Spike	113	115	118	117	100		
% Recovery:	110	115	110	117	100		
Conc. Matrix							
Spike Dup.:	0.45	0.46	0.47	1.4	9.9		
Matrix Spike							
Duplicate							
% Recovery:	113	115	118	117	99		
Relative							
% Difference:	0.0	0.0	0.0	0.0	1.0		

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

% Recovery:	Conc. of M.S Conc. of Sample	x 100	
	Spike Conc. Added		
Relative % Difference:	Conc. of M.S Conc. of M.S.D.	x 100	
	(Conc. of M.S. + Conc. of M.S.D.) / 2		2050777.KEL <3>

Kaprealian Engineering, Inc. Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. - days proposed and the posterior of the

QC Sample Group: 2050777-778

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

EPA

EPA

EPA

Method: Analyst:

8015/8020

8015/8020

8015/8020

Reporting Units:

J.F. mg/Kg

J.F. mg/Kg

J.F. mg/Kg

Date Analyzed:

5/28-5/29/92

5/28-5/29/92

May 28, 1992

Sample #:

205-0777

205-0778

Blank

Surrogate

% Recovery:

110

100

100

SEQUOIA ANALYTICAL

% Recovery:

Conc. of M.S. - Conc. of Sample Spike Conc. Added

x 100

Conc. of M.S. - Conc. of M.S.D.

x 100

Relative % Difference:

(Conc. of M.S. + Conc. of M.S.D.) / 2

KAPREALIAN ENGINEERING INCORPORATED.

CHAIN OF CUSTODY

SAMPLER	touig			n		S:	TE NAI	HE & ADDRESS			ANALYSE	S REQU	ESTED	·		TURN AROUND TIME: REGULAR	
WITHESSING AC	GENCY	<u>, </u>	[4.	Cem Cem	red ed	CC_	24	ectric-Paradiso 20 Blanding Ave	9-1	イメア						112() 42(112	
SAMPLE 1D NO.	DATE	TIME	SOIL	WATER	GRAB	СОНР		SAMPLING LOCATION	Hd上	87,			,			REMARKS	
DI	5/15/2	,	V		V		1	Beneath Dispenser	V	V	/					2050777 V 778	
PI	5/15/92		V		V		١	Product Pipe Trenck	V	V						√ 77°8	
									-								
			······································														
Rel Inquished	by dsig	inature)	5-0	te/Li	De July	[Regeliy	ed by: Signature)		for	analysis	:		•	-	he laboratory accepting samples	
Relinquished	X 671	<u> </u>	,	ote/Ti			Receive	ed by: (Signature)	\dashv	1.	Have all	sampt				alysis been stored in ice?	
Relinquished	by: (Sig	nature)	D.	ate/Ti	ne	1	Receive	ed by: (Signature)				1		_		lysis have head space?	
Relinquished	by: (Sig	nature)	Di	ate/Tir	ne	5	leceive	ed by: (Signature)		4. i	lere sam		n appr	opriat	<u> </u>	ainers and properly packaged? 5-/8-72 tle Date	

organic lead on all samples as per Haig

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel: 510 602 5100 - Eax. 510 687 0602 Kapreallan Engineering, Inc. 2401 Stanwell Drive, Suite 400

Client Project ID: Matrix Descript:

Alameda Electric-Paradiso,2420 Blanding Ave Water Alameda

Sampled: Received:

May 15, 1992 May 18, 1992

Concord, CA 94520

Analysis Method:

EPA 5030/8015/8020 Attention: Mardo Kaprealian, P.E. First Sample #: 205-0779 Reported: Jun 2, 1992

Analyzed:

May 26, 1992 Jun 2, 1992 @

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

Sample	Sample	Low/Medium B.P.	•		Ethyl	
Number	Description	Hydrocarbons μg/L (ppb)	Benzene μg/L (ppb)	Toluene μg/L (ppb)	Benzene μg/L (ppb)	Xylenes μg/L (ppb)
205-0779	W-1	N.D.	N.D.	N.D.	N.D.	N.D.
205-0780	W-2	110	N.D.	N.D.	N.D.	N.D.

Method Detection Limits:	30	0.30	0.30	0.30	0.30	
wethod Detection Limits:	30	0.30	0.30	0.30	0.30	

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Kaprealian Engineering, Inc. 2401 Stanwell Drive, Suite 400 Concord, CA 94520

Attention: Mardo Kaprealian, P.E.

Sample Descript:

Analysis Method:

First Sample #:

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave Sampled: May 15, 1992 Soil

California LUFT Manual, 12/87

Alameda

Received: May 18, 1992 Extracted: May 22, 1992

Analyzed: May 22, 1992 Jun 2, 1992 Reported:

ORGANIC LEAD

205-0779

Sample Number	Sample Description	Sample Results mg/kg (ppm)		
205-0779	W-1	N.D.		
205-0780	W-2	N.D.		

Detection Limits: 0.050

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

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager

2050779.KEI <2>

2401 Stanwell Drive, Suite 400

Kapreallan Engineering, Inc. Client Project ID: Alameda Electric-Paradiso, 2420 Blanding Ave., Alameda

Concord, CA 94520

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050779-780 Constitute of the contraction of

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-				
·	Benzene	Toluene	Benzene	Xylenes	Organic Lead		
	EPA	EPA	EPA	EPA			
Method:	8015/8020	8015/8020	8015/8020	8015/8020	LUFT		
Analyst:	J.Dinsay	J.Dinsay	J.Dinsay	J.Dinsay	K.Anderson		
Reporting Units:	ug/L	ug/L	ug/L	ug/L	mg/L	S	
Date Analyzed:	May 26, 1992	May 26, 1992			May 21, 1992		
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	205-0750		
до сатърго и с							
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.		
				•••			
Spike Conc.							
Added:	10	10	10	30	10		
	, ,						
Conc. Matrix							
Spike:	9.8	9.9	9.7	30	10		
Matrix Spike							
% Recovery:	98	99	97	99	100		
Conc. Matrix							
Spike Dup.:	10	10	10	30	10		
- -			•				
Matrix Spike							
Duplicate	400	400	400	400	100		
% Recovery:	100	100	100	100	100		
Relative	0.0	4.0	2.0	1.0	0.0		
% Difference:	2.0	1.0	3.0	1.3	0.0		

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

% Recovery: Conc. of M.S. - Conc. of Sample x 100 Spike Conc. Added Conc. of M.S. - Conc. of M.S.D. x 100 Relative % Difference: (Conc. of M.S. + Conc. of M.S.D.) / 2 2050779.KEL < 3>

Project Manager

Kaprealian Engineering, Inc. Client Project ID: Alameda Electric-Paradiso, 2420 Blanding Ave., Alameda

³P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 2050779-780 Harring and the commence of the composition of the

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

Method: Analyst:

EPA 8015/8020 J.Dinsay

EPA 8015/8020 J.Dinsay ug/L

EPA 8015/8020 J.Dinsay ug/L May 26, 1992

Reporting Units: Date Analyzed: Sample #:

ug/L May 26, 1992 205-0779

May 26, 1992 205-0780

Blank

Surrogate % Recovery:

93

90

108

SEQUOIA ANALYTICAL

Project Manager

% Recovery:

Conc. of M.S. - Conc. of Sample

x 100

Spike Conc. Added

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2 x 100

2050779.KEL < 4>

KAPREALIAN ENGINEERING INCORPORATED

CHAIN OF CUSTODY

SAMPLER	cepci			n		S I	TE NAI	HE & ADDRESS			ANALYSE	S REQU	ESTED		TURN AROUND TIME: REGULAR
WITNESSING A	GENCY		- (A A(Lar Lam	ne, red	da u -	. IIX - 24	ne a ADDRESS ectric - Paradiso 20 Blanding Ave	9-1	Ш					NEGUCATE.
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	1	BTX					REMARKS
W-1	5/15/92			V			4	Fuel Tauk Pit	W	V					2050779AD 1 780AD
W-2	5/15/42			v		V	4	Fuel Touk Pit	V	~					1 780AD
						-									
			1				\ .								
Pellinguished	Sig	nature)	5-9	re/Lia	AVL	, G	ecelye	ed by: (Signature)	-	for a	nalysis	:			by the Laboratory accepting samples
Relinquished	by: (Sig	inature)	Da	ste/Tin	ne	R	ece i ve	ed by: (Signature)	Have all samples received for analysis been stored in ice 2. Will samples remain refrigerated until analyzed?						
Relinquished	by: (Sig	nature)	Da	ste/lin	ne	R	eceive	ed by: (Signature)	3. Did any samples received for analysis have head space?					analysis have head space?	
Relinquished	by: (Sig	nature)	Da	nte/Tim	ne	R	eceive	ed by: (Signature)	4. Were samples in appropriate containers and properly packaged? Signature Title Date						FS 5489)

Organic lead on all samples us per Haig

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel. \$10 602 \$100 - Eux \$10 687 0602

KEI-J92-0502.R2 October 19, 1992

Paradiso Construction 2600 Williams Street P. O. Box 1836 San Leandro, California 94577

Attention: Mr. Paul Paradiso

RE: Stockpiled Soil Sampling for

Alameda Electric 2420 Blanding Avenue Alameda, California

Dear Mr. Paradiso:

This letter 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 May 15, 1992, soil samples from approximately 50 cubic yards of stockpiled soil that had been excavated from the unleaded fuel tank pit 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. All samples were analyzed at Sequoia Analytical Laboratory in Concord, California, and were accompanied by properly executed Chain of Custody documentation.

On August 26, 1992, soil samples from approximately 50 cubic yards of aerated stockpiled soil (previously sampled as Comp A) at the referenced site were collected to determine proper disposal of the soil. One composite soil sample (designated as Comp 1) was taken. Sample was collected and stored as described above.

Soil samples were analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline by the use of EPA method 5030 in conjunction with modified 8015, and benzene, toluene, xylenes and ethylbenzene by the use of EPA method 8020. In addition, sample Comp A was analyzed for organic lead by the use of the DHS LUFT method. Analytical results of the final composite

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October 19, 1992
Page 2

soil sample (Comp 1) indicated a non-detectable level of TPH as gasoline. 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 final composite soil sample, approximately 50 cubic yards of stockpiled soil, represented by samples Comp 1, were disposed of at Redwood Landfill (an approved Class III disposal site) by Conrad and Son Trucking of Escalon, California. However, prior to loading and off-hauling of the stockpiled soil, Kaprealian Engineering, Inc. recommended that if obvious isolated areas of contamination were detected within the stockpiled soil, those portions of the soil be separately stockpiled for further treatment and sampling.

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

υ<u>,</u>

Sincerely,

Kaprealian Engineering, Inc.

Corrina M. Mathews Technical Assistant

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Attachments: Table 1

Laboratory Analyses

matthews)

Chain of Custody documentation

KEI-J92-0502.R2
October 19, 1992

TABLE 1
SUMMARY OF LABORATORY ANALYSES

<u>Date</u>	<u>Sample</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	Ethyl- <u>benzene</u>
5/15/92	Comp A*	320	0.35	0.20	5.0	0.92
8/26/92	Comp 1**	ИД	ИД	ND.	ИД	ИD

- * Organic lead was non-detectable.
- ** The sample was extracted using the TCLP Zero Head Space Extraction method.

ND = Non-detectable.

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

Kaprealian Engineering, Inc. Client Project ID: Alameda Electric, 2420 Blanding Ave., Sampled: Aug 26, 1992 2401 Stanwell Drive, Suite 400

Concord, CA 94520

Sample Matrix:

TCLP Extract of Soil EPA 5030/8015/8020 Alameda

Received: Aug 27, 1992∄

Reported:

Sep 8, 1992

Attention: Mardo Kaprealian, P.E. First Sample #:

Analysis Method:

208-1116

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/L	Sample I.D. 208-1116 Comp 1	Sample I.D. Matrix Blank			
Purgeable Hydrocarbons	1.0	N.D.				
Benzene	0.010	N.D.			`	
Toluene	0.010	N.D.				
Ethyl Benzene	0.010	N.D.				
Total Xylenes	0.010	N.D.				
Chromatogram Pat	tern:					

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	9/1/92	9/1/92
Instrument Identification:	GCHP-3	GCHP-3
Surrogate Recovery, %: (QC Limits = 70-130%)	102	101

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

SEQUOIA ANALYTICAL

Scott A. Chieffo / **Project Manager**

2401 Stanwell Drive, Suite 400

Kaprealian Engineering, Inc. Client Project ID: Alameda Electric, 2420 Blanding Ave., Alameda

Concord, CA 94520

Attention: Mardo Kaprealian, P.E. QC Sample Group: 208-1116 Reported: Sep 8, 1992

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-	
	Benzene	Toluene	Benzene	Xylenes
	EPA	EPA	EPA	EPA
Method:	8015/8020	8015/8020	8015/8020	8015/8020
Analyst:	M. Nipp	M. Nipp	M. Nipp	M. Nipp
Reporting Units:	μg/L	μg/L	μg/L	μg/L
Date Analyzed:	Sep 1, 1992	Sep 1, 1992	Sep 1, 1992	Sep 1, 1992
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
QO bampie ».	Wallix Dalik	Madix Dialik	Madrix Dialik	MIGHTA DIGHTA
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc.				
Added:	10	10	10	30
,		. •		
Conc. Matrix				
Spike:	9.4	9.4	9.5	28
•				
Matrix Spike				
% Recovery:	94	94	95	93
Conc. Matrix				
Spike Dup.:	10	10	10	31
•				
Matrix Spike				
Duplicate				
% Recovery:	100	100	100	103
Relative			5.1	
% Difference:	6.2	6.2		10

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager

% Recovery:	Conc. of M.S Conc. of Sample Spike Conc. Added	x 100	····
Relative % Difference:	Conc. of M.S Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100	

2081116.KEI <2>



CHAIN OF CUSTODY

SAMPLER	STEV	'E	Δ	(0 00		SITE HAME & ADDRESS ELECTRIC ALAMEDA						γ	ANALYS	ES REQU	JESTED	····		TURN AROUND TIME:
WITHESSING A	11 THESSING AGENCY 2420								-	-074	4	176						<u>REGULAR</u>
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	СОМР	NO. OF CONT,		SAMPLING LOCATION		TPH	BT				-		REMARKS
Comp 1	8/26/9à		X			X	4	57	ock pill		X	X	2	208	311	16F	D.	TCLP
							_									,,		
						==-,												
						·												
Relinquished	by: (Sig	ınature)	D	ate/Ti	пе	, ,	Receive	ed by:	(Signature)			The	followi	ng MUS	I BE c	omplet	ed by	the laboratory accepting samples
STELD 8/26/92 9:25pm Relinquished by: (Signature) Date/Time Received by:					5 125	8/27/9			for analysis: 1. Have all samples received for analysis been stored in ice? 2. Will samples remain refrigerated until analyzed?									
Relinquished	by: (Sig	nature)	D	ate/Ti	ne	F	Receive	ed by:	(Signature)		3. Did any samples received for analysis have head space?					9		
Relinquished	by: (Sig	nature)	D	ate/Iii	ne	F	Receive	ed by:	(Signature)		4. Were samples in appropriate containers and properly packaged Signature 7 Title Date						:. S. 8/27/92	

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave Kaprealian Engineering, Inc. Sampled: May 15, 1992 Received: May 18, 1992. Sample Descript.: Soil, Comp A Alameda 2401 Stanwell Drive, Suite 400 EPA 5030/8015/8020 Analyzed: May 28, 1992 Concord, CA 94520 Analysis Method: Reported: Jun 2, 1992 Lab Number: 205-0781 Attention: Mardo Kaprealian, P.E. Least ocidentes. Con un accommissione expensivamente de contrata d

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

Analyte Method Detection Limit Sample Results mg/kg (ppm) mg/kg (ppm)

Low to Medium Boiling Point Hydrocarbons	्याङ्क
Bertzene 0.0050	4.000
Toluene	
Ethyl Benzene	,X,125 } \ \(\frac{1}{2}\)
Xylenes	135,000

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager Kaprealian Engineering, Inc. Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave Sampled: May 15, 1992 2401 Stanwell Drive, Suite 400 Soil Received: Sample Descript: May 15, 1992 Alameda Concord, CA 94520 Analysis Method: California LUFT Manual, 12/87 Extracted: May 22, 1992 §Attention: Mardo Kaprealian, P.E. First Sample #: 205-0781 Analyzed: May 22, 1992 Jun 2, 1992 Reported: lova, promeranjem postrema ancistom metalem metalem metalem de la destrema de la

ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/kg (ppm)
205-0781	Comp A	N.D.

Method Detection Limits: 0.050

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

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager

Kapreallan Engineering, Inc.
2401 Stanwell Drive, Suite 400
Concord, CA 94520
Attention: Mardo Kapreallan, P.E. QC Sample Group: 205-0781

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda
Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-			
	Benzene	Toluene	Benzene	Xylenes	Organic Lead	
	EPA	EPA	EPA	EPA		
Method:	8015/8020	8015/8020	8015/8020	8015/8020	LUFT	
Analyst:	J.F.	J.F.	JF.	J.F.	K. Anderson	
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	~
Date Analyzed:	May 28, 1992	May 28, 1992		•••	May 22, 1992	
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank	205-0737	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	
Spike Conc.						
Added:	0.40	0.40	0.40	1.2	10	
Conc. Matrix						
Spike:	0.45	0.46	0.47	1.4	10	
Matrix Spike						
% Recovery:	113	115	118	117	100	
Conc. Matrix						
Spike Dup.:	0.45	0.46	0.47	1.4	9.9	
Matrix Spike						
Duplicate % Recovery:	113	115	118	117	99	
•						
Relative	0.0	0.0	0.0	0.0	4.0	
% Difference:	0.0	0.0	0.0	0.0	1.0	

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

Project Manager

% Recovery:	Conc. of M.S Conc. of Sample	x 100			1
	Spike Conc. Added				
Relative % Difference:	Conc. of M.S Conc. of M.S.D.	x 100			
j	(Conc. of M.S. + Conc. of M.S.D.) / 2		 	_	

Kapreallan Engineering, Inc.

Client Project ID: Alameda Electric-Paradiso,2420 Blanding Ave., Alameda

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 205-0781

Amora, vir da la la company des lo Nambors de la constation de la constati

Reported: Jun 2, 1992

QUALITY CONTROL DATA REPORT

SURROGATE

EPA

8015/8020

EPA

Method: Analyst:

J.F.

8015/8020 J.F.

Reporting Units:

Date Analyzed:

mg/kg May 28, 1992 mg/kg

Sample #:

205-0781

May 28, 1992 Matrix Blank

Surrogate

% Recovery:

110

100

SEQUOIA ANALYTICAL

Scott A. Chieffo Project Manager % Recovery:

Conc. of M.S. - Conc. of Sample

x 100

Spike Conc. Added

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D. (Conc. of M.S. + Conc. of M.S.D.) / 2 x 100

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KAPREALIAN ENGINEERING INCORPORATED

CHAIN OF CUSTODY

SAMPLER	cuig		Al	niui	e d	si Or 1	TE HAP	ne & ADDRESS ctaic - Pour codiso	1	,	MALYSE	s requ	ESTED			TURN AROUND TIME: REGULAR
WITHESSING AC	GENCY		Al	ame	edo	<u> </u>	248	ctric-Paradiso 20 Blanding Ave	9+	メ				ł		
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	HOL	BTX						REMARKS
Comp A	5/15/92		V			V	4	STOCKPILE .	~							205078/AD
														-	<u> </u>	
		_														
															<u>.,</u>	
Relinquished Heal O	/ Kee	MOUR	\		t Tim	١	777	ed by: (fignature)		for a	nalysis	::				the laboratory accepting samples nalysis been stored in ice?
Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time Received by: (Signature)						ed by: (Signature)				7				d until shalyzed? alysis have head space?		
Relinquished by: (Signature) Date/Time						,	Received by: (Signature)				ere sam Ays Signa	\subseteq	n appr	opriat	\pm	tainers and properly packaged? 1 9 1 1 1 1 1 1 1 1

organic Isad on all samples

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel. 510.602 5100 Fax. 510.687.0602