

Consulting Engineers
P. O. BOX 913
BENICIA, CA 94510
(415) 676 · 9100 (707) 746 · 6915

KEI-J88-1109.R2 February 9, 1989

Mr. Chester Clark 521 Triller Lane Grants Pass, Oregon 97527

RE: Stockpiled Soil Sampling for Clark's Building Materials

23040 Clawiter Road Hayward, California ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS

Dear Mr. Clark:

This letter report summarizes the results of the stockpiled soil sampling and laboratory analyses for the referenced site. The soil analyses were conducted to comply with the County Health Department requirements to determine proper disposal of contaminated soil.

On December 16, 1988, a soil sample from approximately 50 cubic yards of stockpiled soil at the referenced site was collected to determine proper disposal of Stockpile #3 (Site Plan). One composite soil sample (designated as Comp 1) was taken. This composite sample consisted of four individual grab samples taken at various locations and depths ranging from one to two feet. The sample was collected in 2" by 4", 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 composited and analyzed at Sequoia Analytical Laboratory of Redwood City, California, and was accompanied by properly executed Chain of Custody documentation. Sample locations are as shown on the attached Site Plan.

On January 18, 1989, an additional soil sample from approximately 35 cubic yards of stockpiled soil at the referenced site was collected to determine proper disposal of Stockpile #1 (Site Plan). This composite sample (designated as Comp 2) also consisted of four individual grab samples taken at various locations and depths ranging from one to two feet. The sample was taken and handled as described above.

Both composite samples were analyzed to determine concentrations of total petroleum hydrocarbon (TPH) as gasoline using EPA method 5030 or 3810 in conjunction with modified 8015, TPH as diesel using EPA method 3550 in conjunction with modified 8015, benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA methods 5030 and 8020. The results of the soil analyses for Comp 1 showed the

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concentration of TPH as gasoline at 120 ppm and the concentration of TPH as diesel at 140 ppm. Comp 2 had 7.2 ppm TPH as diesel with all other constituents non-detectable. The results are summarized below. Copies of the laboratory analyses, and the Chain of Custody forms are attached to this report.

<u>Sample</u>	TPH as <u>Diesel</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	Ethyl- benzene
Comp 1	140	120	0.093	0.13	2.6	0.36
Comp 2	7.2	ND	ND	ND	ND	ND

Stkpl.#3 Stkpl.#1

Based on the analytical results and Regional Water Quality Control Board (RWQCB) guidelines, KEI recommends the following: The soil from Stockpile #2 (as stated in KEI's January 10, 1989 report) needs to be treated or disposed of at a Class I disposal site. The soil from Stockpile #1 (represented by Comp 2) can be disposed of at an approved Class III disposal site. The soil from Stockpile #3 (represented by sample Comp 1) can be treated and resampled for disposal of at a Class III site.

A copy of this report should be sent to Mr. Thomas F. Peacock of the Alameda County Health Agency, and to the RWQCB, Bay Area Region.

Gloral . 4320

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

Sincerely,

Kaprealian Engineering, Inc.

Hay S. Johnson
Gary S. Johnson

Registered Geologist

Mrs Kyzh

Mardo Kaprealian

President

License No. 4315 Exp. Date 6/30/90

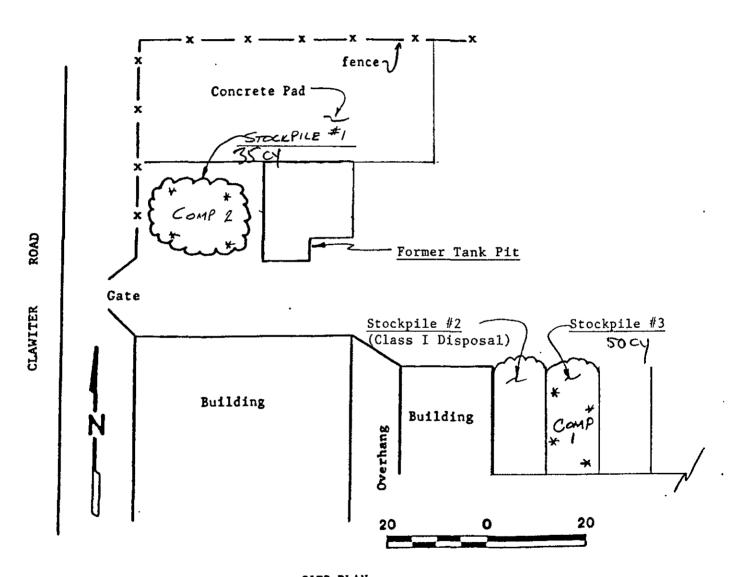
Attachment: Site Plan

Laboratory Results

Chain of Custody documentation



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SITE PLAN

★ Soil Sample Location

Clark's Building Materials 23040 Clawiter Road Hayward, California

Kaprealian Engineering, Inc. Client Project ID: Clark's Building Materials, Hayward Sampled: Jan 18, 1989 P.O. Box 913 Matrix Descript: Soil, Composite #2 Received: Jan 18, 1989 Benicia, CA 94510 Analysis Method: EPA 3550/8015 Analyzed: Jan 31, 1989 Attention: Mardo Kaprealian, P.E. First Sample #: 901-1797 Feb 3, 1989 Reported: ologi 1970 to 7040 bola lalakiktimi abrista inganasa katalahan ababahan bulukturka katalah

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)	
901-1797	Composite #2	7.2	

Det€	ecti	on	Li	imi	its:
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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.

SEQUOIA ANALYTICAL

Arthur G. Burton Laboratory Director

Talitatia vilkorararakan kerengin permengan kerengan kerengan kerengan kerengan belangan berangan kerengan beberakan Kaprealian Engineering, Inc. Client Project ID: Clark's Building Materials, Hayward Sampled: Jan 18, 1989 P.O. Box 913 Sample Descript.: Soil, Composite #2 Received: Jan 18, 1989 Benicia, CA 94510 Analysis Method: EPA 5030 or 3810 and 8015/8020 Analyzed: Jan 31, 1989 Attention: Mardo Kaprealian, P.E. Lab Number: 901-1797 Reported: Feb 3, 1989

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

Analyte	Detection Limit mg/kg (ppm)		Sample Results mg/kg (ppm)
Low to Medium Boiling Point Hydrocarbons	1.0	***************************************	N.D.
Benzene		************	N.D.
Toluene	0.1	***********	N.D.
Ethyl Benzene	0.1	*************	N.D.
Xylenes	0.1	*************	N.D.

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton Laboratory Director



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CHAIN OF CUSTODY

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(signature)	110/0/	TIME: <u>/ 3</u>	days ragul
SAMPLER: DATE/TIME OF COLLECTION: Collection: AND PROJECT NUMBER:	ark's B	viloling M 30	laterials
SAMPLE # ANALYSES COUP'2" TPHG & D	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/ WATER
BIXE			
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3.			
4.			
* STATE AFFILIATION NEXT TO SIGNAREMARKS:	ATURE		

e Drive • Redwood City, CA 94063

• FAX (415) 364-9233

D: RW.lohnston. Clark's Rock, Hayward Sampled; Dec 16, 1988. Client Project ID: R.W.Johnston, Clark's Rock, Hayward

Matrix Descript:

Soil

Dec 20, 1988 Received:

Analysis Method: EPA 3550/8015 First Sample #:

812-2309

Analyzed:

Reported:

Jan 9, 1989

Jan 10, 1989:

Sampled:

Received:

Analyzed:

Reported:

(EPA 8015/8020)

Sample Results mg/kg (ppm)

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Light Present Production Talend Profession

Dec 16, 1988

Dec 20, 1988

Jan 9, 1989

Jan 10, 1989

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L PETROLEUM FUEL HYDROCARBONS (EPA 8015)

High B.P. Hydrocarbons mg/kg (ppm)

120

1.0

jantitated against a diesel fuel standard. sent above the stated limit of detection.



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CHAIN OF CUSTODY

SAMPLER! Bush COLLECTION: /		TURN #	ROUND (ر
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AND PROJECT NUMBER:	Plawter	J-Ha	yward	
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SAMPLE # ANALYSES	COMP.	CONTAIN		
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REMARKS:				



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CHAIN OF CUSTODY

SAMPLER: BUSINESTIME OF COLLECTION: 12	2-16-88	TURN ARO	Molar
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AND PROJECT NUMBER:	lawiter	- Haye	val
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Comp 1 TPHG & BTXE; TPH-D		2	
			
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REMARKS:	·		