

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

KEI-J88-1206.R1 January 11, 1989

Mobil Oil Corporation P.O. Box 127 Richmond, CA 94804

Attention: Mr. Steve Pao

RE: Soil Sampling Report

Mobil Service Station #10-KNK

7197 Village Parkway Dublin, California

Dear Mr. Pao:

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 Agency (ACHA).

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

Coordination with regulatory agencies.

Collection of samples of native soil from beneath the tank.

Collection of stockpile samples of soil excavated from the tank pit during tank removal.

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

Technical review of laboratory analyses and preparation of this report.

SITE DESCRIPTION AND BACKGROUND

The subject site is presently used as a gasoline station. Site vicinity and site descriptions are shown on the attached sketches. No leaks or previous subsurface work performed at the site are known to KEI.

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FIELD ACTIVITIES

KEI's field work was conducted on December 7, 1988. On this date, one underground storage tank was removed from the site.

The tank consisted of a 280 gallon waste oil tank. The tank was made of steel and several small holes up to 3/8" diameter were observed. Mr. Dennis Byrne of the ACHA and Mr. Tom Hathcox of the Dublin/San Ramon Fire District were present for the tank removal.

One soil sample, labeled WO-1(10), was taken of the native soil from beneath the tank at a depth of about ten feet. One soil sample, labeled WO-2(18), was collected from the native soil beneath the tank at a depth of 18 feet. The samples were collected from bulk material excavated by backhoe. The samples were placed in clean, 2" diameter brass tubes, sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a certified laboratory. Sample locations are as shown on the attached Site Plan, Figure 1.

Also on December 7, 1988, two composite soil samples, labeled Comp A and Comp B, were collected from approximately 50 cubic yards of soil stockpiled on site. The soil was generated during tank excavation and removal. Each composite consisted of four individual grab samples taken at various locations and depths ranging from one to two feet and composited as one sample by the lab. These samples were also handled and stored as described above. The location of composite samples Comp A and Comp B are shown on the Site Plan, Figure 1.

KEI returned to the site on December 15, 1988 during the additional excavation of soil required by ACHA to define the lateral extent of contamination. Four sidewall samples, labeled SW-1, SW-2, SW-3 and SW-4, were taken at a depth of ten feet. Samples were handled and stored as described above. Sample locations are shown on the Site Plan, Figure 2, attached. Soil was excavated from one to six feet laterally into the tank pit sidewalls from grade to a depth of 11 feet. The excavated soil was stockpiled on-site.

KEI again returned to the site on December 20, 1988, for additional lateral excavation of soil in the area of sample point SW-3. An additional three feet of soil was excavated from the sidewall, and one sidewall sample, labeled SW-3A, was taken at a depth of ten feet. This sample was also handled and stored as described above.

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SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavation consisted primarily of clay.

ANALYTICAL RESULTS

All tank pit and stockpile samples were analyzed by Sequoia Analytical Laboratory of Redwood City, California and were accompanied by properly executed Chain of Custody forms. All soil samples were analyzed for total petroleum hydrocarbon (TPH) as diesel using EPA method 3550/8015, and total oil and grease (TOG). In addition, the two tank bottom samples, labeled WO-1(10) and WO-2(18) were analyzed for EPA 8010/8020 constituents.

Soil sample analyses from the waste oil tank pit indicate levels of TPH as diesel ranging from 2.5 to 20 ppm. TOG ranged from 2.5 to 550 ppm for the samples taken once tank pit excavation was completed.

Composite stockpile soil sample analyses for Comp A and Comp B indicated levels of TPH as diesel ranging from 1.6 to 35 ppm with TOG ranging from 6.8 to 17 ppm. These stockpiles have been consolidated since sampling.

The analytical results for all samples are summarized in Table 1. Copies of the laboratory analyses and the Chain of Custody forms are attached to this report.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results, the stockpile represented by samples Comp A and Comp B is considered non-hazardous by the RWQCB and may be disposed of at a Class III landfill. We recommend that the balance of the soil (250 cu.yds.) stockpiled on site be disposed of at a Class I landfill.

In accordance with the guidelines established by the RWQCB, further investigation is necessary at the site because of the level of contamination found in the soil. To comply with the requirements of the RWQCB and the Alameda County Health Agency, KEI recommends the installation of three monitoring wells at the site to begin to define the extent of the contamination, to determine the ground water gradient, and to determine if the ground water has been impacted. KEI's proposal for this work is attached for your review and consideration.

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

LIMITATIONS

The results of this study are based on the data obtained from the field and laboratory investigations. 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.

Should you have any questions regarding this report, please feel free to call me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Richard M. Bradish

Staff Engineer

Gary S. Johnson

Registered Geologist

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

RMB: jad

cc: David Noe, Mobil

Attachments: Table 1

Location Map

Site Plan, Figure 1 and 2

Laboratory Analyses Chain of Custody forms

1. Bradish

Proposal

KEI-J88-1206.R1 January 11, 1989

TABLE 1
SUMMARY OF LABORATORY ANALYSES
(Results in ppm)

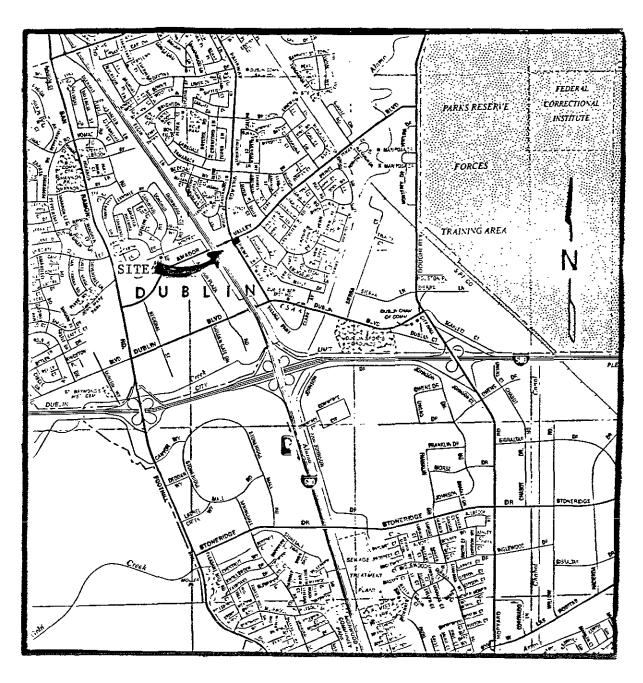
<u>Sample</u>	Depth (feet)	TPH as <u>Diesel</u>	Total Oil & Grease	<u>Benzene</u>	<u>Toluene</u>	Xylenes	Ethyl- <u>benzene</u>
WO-1(10)	* 10	13	550	ND	0.015	0.110	0.055
WO-2(18)	* 18	18	110	ND	ND	ND	ND
SW-1	10	4.0	60				
SW-2	10	2.5	79				
SW-3	10	20	1100				
SW-4	10	ND	68				
SW-3A	10	6.0	2.5				
Comp A		35	17				
Comp B		1.6	6.8				

ND = Non-detectable

^{*}All EPA 8010 and 8020 constituents were not detectable except as noted.



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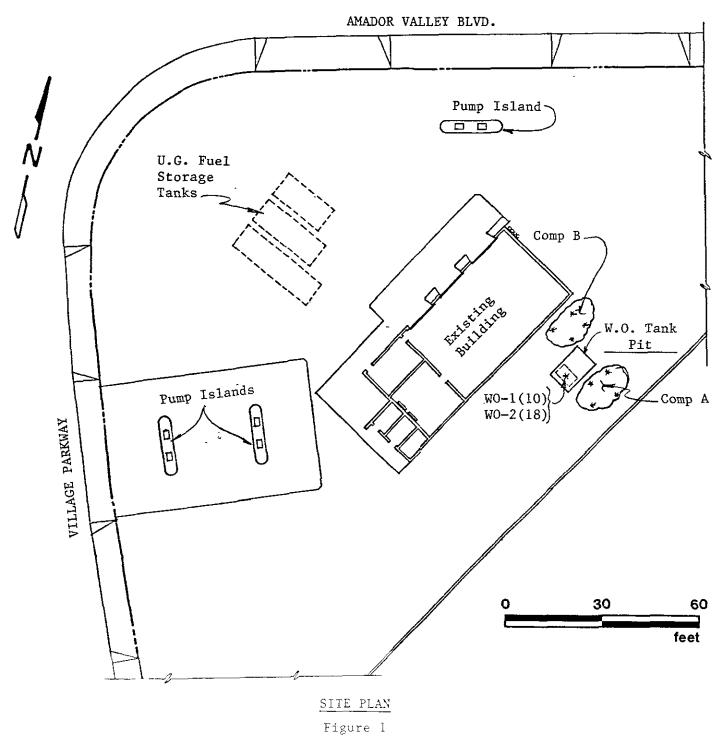


LOCATION MAP

Mobil Service Station #10-KNE 7197 Village Parkway Dublin, California

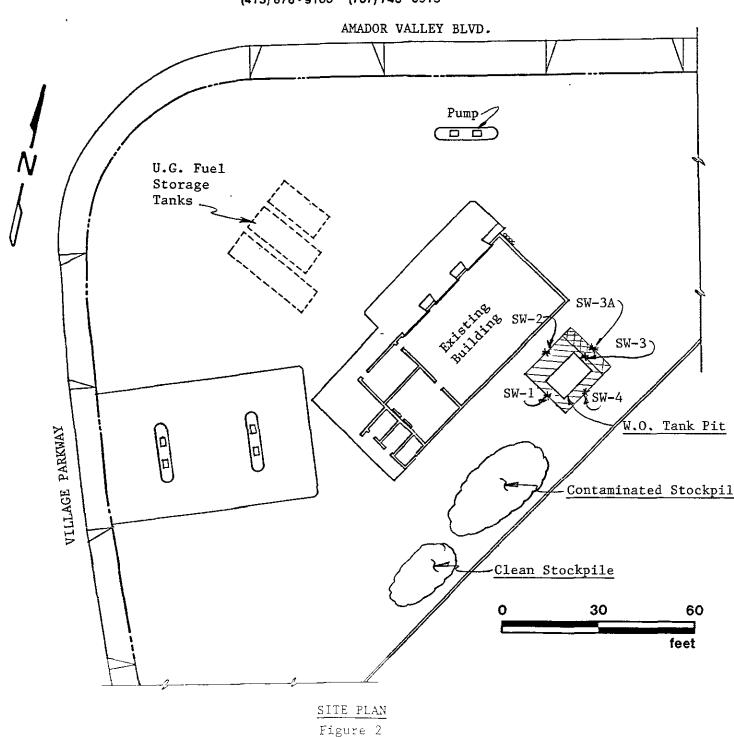


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₹ Sample Point Location

Lateral Area Excavated 12/15/88

Lateral Area Excavated 12/20/88

Mobil Service Station #10-KNK 7197 Village Parkway Dublin, California

(2) 1944年200日 (23:40-1955) 李野(20:5) 20:100000 (145.5) 李田(16:5) 1 oran da en appleat de constant de c Client Project ID: Mobil, Dublin, Village/Amador Valley Dec 8, 1988 Sampled: Kaprealian Engineering, Inc. Matrix Descript: Soil Received: Dec 8, 1988 P.O. Box 913 Benicia, CA 94510 Analysis Method: EPA 3550/8015 Analyzed: Dec 21, 1988 Dec 22, 1988⁵ First Sample #: 812-0639 Reported: Attention: Mardo Kaprealian, P.E. รับสรโรคสบริเศษใต้ เปลาสรีให้เหลียสหราชในตามสังเราที่สด สโรโรโมสติก จากสามพิสธิบัติสักษาโดย เป็นสำนักสามพิธานา

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-0639	Composite A	35
812-0640	Composite B	1.6

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

SEQUOIA ANALYTICAL

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Mobil, Dublin, Village/Amador Valley Kaprealian Engineering, Inc. Client Project ID: Sampled: Dec 8, 1988 P.O. Box 913 Matrix Descript: Received: Dec 8, 1988 Benicia, CA 94510 Analysis Method: EPA 418.1 (I.R. with clean-up) Extracted: Dec 14, 1988 Attention: Mardo Kaprealian, P.E. First Sample #: 812-0639 Analyzed: Dec 14, 1988 Reported: Dec 22, 1988

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0639	Composite A	17
812-0640	Composite B	6.8

	_	 		 -		•	 	
Detection Limits:		1.0						

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

SEQUOIA ANALYTICAL

Arthur G Burton Laboratory Director 

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

SAMPLER: Javy Storro- COLLECTION: (signature)	12/7/88 1:30 TURN AROUND TIME: 10 days Oublin - Village Parkuny 3 Randor
SAMPLE # ANALYSES COMP A TPHD, TOG COMP B IPHD, TOG	GRAB OR NUMBER OF SOIL/ COMP. CONTAINERS WATER /
1. May from 5:00 12/1/86	RECEIVED BY* TIME/DATE 12-7 5:00
3. 4.	
* STATE AFFILIATION NEXT TO SIG	NATURE

Kaprealian Engineering, Inc. P.O. Box 913

P.O. Box 913 Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Mobil, Dublin, Village/Amador Valley

Matrix Descript: So

Analysis Method: First Sample #:

EPA 413.1 (Gravimetric)

812-2141

Sampled:

Dec 20, 1988

Received:

Dec 21, 1988 Dec 21, 1988

Extracted: Analyzed:

Dec 21, 1988:

Reported: Dec 22, 1988

TOTAL RECOVERABLE OIL & GREASE

Sample Number

Sample Description Oil & Grease

mg/kg (ppm)

812-2141

SW-3A

6.0

Detection Limits:

30.0

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

SEQUOIA ANALYTICAL

Arthur G Burton Laboratory Director

8122141 KE(<1>

Kaprealian Engineering, Inc. P.O. Box 913

Client Project ID: Matrix Descript:

Mobil, Dublin, Village/Amador Valley

Sampled: Dec 20, 1988 Received: Dec 21, 1988

Benicia, CA 94510

Analysis Method:

EPA 3550/8015

Dec 21, 1988 Analyzed:

Attention: Mardo Kaprealian, P.E. Bana**aranan kerberba**n keralah keralah keratan berkerak banan keralah keralah keralah kerada berangan berangan b

DEPRESENTED AS EMPLISORS AND AT

First Sample #: 812-2141 Reported: Dec 22, 1988

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-2141	SW-3A	2.5

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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Kaprealian Engineering, Inc.

P.O. Box 913

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

andre de la compresa Client Project ID: Mobil, Dublin, Village/Amador Valley

Matrix Descript:

Soil

First Sample #:

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Analysis Method: EPA 413.1 (Gravimetric)

812-1813

Sampled: Dec 15, 1988

Received: Relogged 12/29

Extracted: Analyzed:

Dec 30, 1988 Dec 30, 1988

Reported: Jan 3, 1989 78 ×88 986 60

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
812-1813	SW-1	N.D.
812-1814	SW-2	N.D.
812-1815	SW-3	N.D.
812-1816	SW-4	70

Detection Limits:

30.0

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

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O. (7 •					
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(signature)			1-32-3			,
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		3550	GRAB OR	NUMBER OF	SOIL/	
SAMPLE #	<u>ANALYSES</u>	·	COMP.	CONTAINERS	WATER	
<u>SW-1</u>	TPH-D	, TOG(50304	E) G			212
SW-2	<u>u</u>	ч	<u> </u>		<u> </u>	914
SW-3	u	ч	<u> </u>		_5_1	519
5W-4	<u> </u>	ч	<u> </u>		51	916
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3. On 1/2	de	12-16.88 10:20 KM	Blift	4	12/14/78	
4.				,		
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REMARKS: \	70 Cha	regl.				

and beautions are considered by the contract contract for the contract of the Client Project ID: Mobil, Dublin, Village/Amador Valley Kaprealian Engineering, Inc. Sampled: Dec 20, 1988 P.O. Box 913 Matrix Descript: Soil Received: Dec 21, 1988 Analysis Method: EPA 413.1 (Gravimetric) Extracted: Dec 21, 1988 Benicia, CA 94510 First Sample #: Dec 21, 1988 Attention: Mardo Kaprealian, P.E. 812-2141 Analyzed: Reported: Dec 22, 1988

TOTAL RECOVERABLE OIL & GREASE

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Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
812-2141	SW-3A	N.D.

Detection Limits: 30.0

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

SEQUOIA ANALYTICAL



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(415) 676 - 9100 (707) 746 - 6915

SAMPLER: Brace of	DATE/TIME OF COLLECTION: <u>//</u>	-70-80	TURN ARC	OUND HO
(signature)		<u> </u>		
SAMPLE DESCRIPTION AND PROJECT NUMBER:	Mobil		bline_	740
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SAMPLE # ANALYSE	s	GRAB OR COMP.	NUMBER OF CONTAINER	soil/
SUL-3A TPH-D;T	04(503DLE)	<u>_</u>		
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	, <u>, , , , , , , , , , , , , , , , , , </u>			
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2. Pour theope	11:15	Mult 1.	M	8:30 Am 10-21.0 11:15 12/21/88
3.				
4.				
* STATE AFFILIATIO	NEXT TO SIGNA	TURE		
REMARKS:				



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

SAMPLER: State of TURN AROUND TIME: 24 He (signature)
SAMPLE DESCRIPTION AND PROJECT NUMBER: Village Place of amader Valley Box
GRAB OR NUMBER OF SOIL/ SAMPLE # ANALYSES COMP. CONTAINERS WATER SW-3A TPH-D; TOG(SO3DE) G S
1. Received by* TIME/DATE 8:30 1. Received by* TIME/DATE 8:30 8:30 8:30 8:30 8:30 8:30 8:30 9:30 8:30 9:30 9:30 9:30
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4.
* STATE AFFILIATION NEXT TO SIGNATURE

Kaprealian Engineering, Inc.

HEIMBERGEM GRESTEMBY WENTER -

P.O. Box 913

Benicia, CA 94510

Client Project ID:

DESCRIPTION OF THE DESCRIPTION OF THE PROPERTY AND A SECOND OF A S Mobil, Dublin, Village/Amador Valley

Sampled: December 15, 1988

Matrix Description: Method of Analysis:

EPA 3550/8015

Received: December 16, 1988: Analyzed: December 19, 1988

Attention: Mardo Kaprealian, P.E.

First Sample Number: 812-1813

Reported: December 19, 1988 Otarini en ing kalangan da alamang kalangan kalang ang kalang kalang kalang kalang kalang kalang kalang kalang

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-1813	SW-1	4.0
812-1814	SW-2	2.5
812-1815	SW-3	20
812-1816	SW-4	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.

SEQUOIA ANALYTICAL

» Kaprealian Engineering, Inc.

P.O. Box 913

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. First Sample Number: 812-1813

Client Project ID:

 $\mathcal{L}(\overline{\mathcal{R}}_{\mathcal{A}}^{\mathbf{k}}, \overline{\mathcal{L}}_{\mathcal{A}}^{\mathbf{k}}, \overline{\mathcal{L}}_{\mathcal{A}}^$ Mobil, Dublin, Village/Amador Valley

> Matrix Description: Soil

Method of Analysis:

EPA 413.2 (I.R.)

Sampled: December 15, 1988

Received: December 16, 1988 Extracted: December 19, 1988

Analyzed: December 19, 1988

Reported: official confidence and the properties of the confidence of the co

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
812-1813	SW-1	60
812-1814	SW-2	79
812-1815	SW-3	1,100
812-1816	SW-4	68

Detection Limits:

1.0

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

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(415) 676-9100 (707) 746-6915

SAMPLER:		ATE/TIME OF DLLECTION: 12	-15-28	TURN AROU	IND 4HR
(signature SAMPLE DES AND PROJEC	CRIPTION	Mobil Villag	2 - Dub e & an	len cador Vo	lley
SAMPLE #	ANALYSES		GRAB OR COMP.	NUMBER OF CONTAINERS	
<u>Sul - I</u>	TPH-D	, TOG(503D	#E) 9		<u>_S_</u>
<u>Sul-Z</u>	<u> </u>	ч	<u> </u>		<u>_S_</u>
SW-3	<u> </u>	ч	9		_2_
5W-4	<u> </u>	ч 	<u> </u>		
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			,		
RELINOUISH	ED BY*	TIME/DATE	RECEIV	ED BY*	TIME/DATE
1. K.M.	/ Sacrial	12/15/88 5:00 pm	Hay S.J.	finer-	12/15/88 5:09pm
2. Hay S.	Shar	12/11/00 8:23 am	Don M.	chel	8:35 A.n. 12-16:88
3.				_	
4.					
* STATE A	FFILIATION	NEXT TO SIGN	ATURE		
REMARKS:					



Consulting Engineers
P. O. BOX \$13
BENICIA, CA 94510
(415) 676 - 9100 (707) 746 - 6915

SAMPLER: COLLECTION: COLLECTION: COLLECTION: Mobile Mand PROJECT NUMBER: Villa	2-15-80 TURN AROUND L-Dublin ge & amadon Valley
3550 SAMPLE # ANALYSES SW-1 TPH-D; TOG(502 SW-2 4 SW-3 4 SW-4	GRAB OR NUMBER OF SOIL/ COMP. CONTAINERS WATER S 18 G S 3 G S 3 G S 19
1. Seadersh 5:00 pm 2. fay & flurar 8.23 am 3. Con Males 10:20 pm	Hay S. Johnson 5:000000 8:35 Am.
* STATE AFFILIATION NEXT TO S	IGNATURE

Kaprealian Engineering, Inc.

P.O. Box 913

Benicia, CA 94510

Matrix Description:

Client Project ID: Mobil, Dublin, Valley Pkwy/Amador Valley

Method of Analysis: EPA 3550/8015 Attention: Mardo Kaprealian, P.E. First Sample Number: 812-0637

Sampled: December 7, 1988

Received: December 8, 1988;

Analyzed: December 15, 1988 Reported: December 15, 1988

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-0637	WO1 (10)	13

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

SEQUOIA ANALYTICAL

Kaprealian Engineering, Inc.

P.O. Box 913

Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.

Client Project ID: Matrix Description:

Goduseryngeryreelsyngrocieen ocken opeikel ningestyngeriet in de in de galeberg ock of the stalle ei

Mobil, Dublin, Village Pkwy/Amador Valley

Soil

Method of Analysis:

EPA 418.1 (I.R. with clean-up)

First Sample Number: 812-0637

CONSCIPENDA A CASSOMO DO DEMOSAMA DE POLAS ESPAÑA DE OCORDA DE CONTROLES DE POLACIONA DE POLACIONA DE POLACIONA DE LA CONTROLES DE LA CONTROLES DE POLACIONA DE LA CONTROLES D December 7, 1988 Sampled: Received: December 8, 1988

Extracted: December 14, 1988 Analyzed: December 14, 1988

Reported: December 15, 1988 al en elakurak ban bermen bilan b

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0637	WO1 (10)	550

Detection Limits:

1.0

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

SEQUOIA ANALYTICAL

(aprealian Engineering, Inc. Client Project ID: Mobil, Dublin, Village Pkwy/Amador Valley Sampled: December 7, 1988 P.O. Box 913 Sample Description: Soil, WO1 (10) Received: December 8, 1988 Kaprealian Engineering, Inc. P.O. Box 913

Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.

Method of Analysis: EPA 5030/8010

Lab Sample Number: 812-0637

Analyzed: December 13, 1988 -Reported: December 15, 1988

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit ug/kg		Sample Results ug/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.
trans-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

SEQUOIA ANALYTICAL

Kaprealian Engineering, Inc. [™]P.O. Box 913 Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.

Client Project ID: Sample Description: Method of Analysis: Lab Sample Number:

lient Project ID: Mobil, Dublin, Village Pkwy/Amador Valley Sampled: December 7, 198 Soil, WO1 (10) EPA 5030/8020

December 7, 1988 Received: December 8, 1988 Analyzed: December 13, 1988: Reported: December 15, 1988 Columbia de Columbia de Colombia de Colomb

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limi ug/kg	t	Sample Results ug/kg
Benzene	5.0	***************************************	N.D.
Chlorobenzene	5.0	*************************	N.D.
1,4-Dichlorobenzene	10.0		N.D.
1,3-Dichlorobenzene	10.0	*************************	N.D.
1,2-Dichlorobenzene	10.0	***************************************	N.D.
Ethyl Benzene	5.0		. 55
Toluene	5.0	ne i rejetuari. En la colonia de la colonia	. ************************************
Xylene	5.0		. 110 · · · · · · · · · · · · · · · · · ·

812-0637

Analytes reported as NID, were not present above the stated limit of detection

SEQUOIA ANALYTICAL



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

SAMPLER: Naughton Co. (signature)	ATE/TIME OF DLLECTION:	12/1/21 1:30 pm	TURN ARO	und week	
SAMPLE DESCRIPTION AND PROJECT NUMBER:	Misbil-M	iblis - VIII	of Parkwy-	Aundor Ve	1/09
SAMPLE # ANALYSES W ((10) 1/40/106,	<i>5310/8320</i>	GRAB OR COMP.	NUMBER OF CONTAINER	SOIL/ S WATER 5	C
					•
RELINQUISHED BY*	TIME/DATE	RECEIVE		TIME/DATE 1z-7 5:00	
2. Hay John	5:00 11/æ	Chi Que		17/07/0C'	
4.					
* STATE AFFILIATION	NEXT TO SIG	NATURE			

Kaprealian Engineering, Inc.

P.O. Box 913 Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Markelbe regalikati eliminen eta paremakela eta elim Client Project ID:

Mobil, Dublin, Village Pkwy/Amador Valley

EBPORTURARIONAL PROGRAMANTA LA COLLEGA DE COLETA POR LA CALLARIA DE CALLARIA (CALLARIA DE CALLARIA). Sampled: December 7, 1988

Matrix Description: Method of Analysis:

First Sample Number: 812-0616

Soil EPA 3550/8015

Received: December 8, 1988 Analyzed: December 8, 1988

Reported: December 9, 1988 : Amention: Margo Raptearian, F.E. Inst Sample regimes. U12-0-10

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Sample High B.P. Number Description Hydrocarbons mg/kg (ppm) 812-0616 WO2(18) 18

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

SAMPLER: Jan John Co	ATE/TIME OF	13/7/88 1:30 pm	TURN AROUN	ND WEEK
(signature)		•		
SAMPLE DESCRIPTION AND PROJECT NUMBER:	Mobil-M	ublin - Ville	og Parkving - p	Anndor Vrl
SAMPLE # ANALYSES W ((10) IPH, 106,	8310/8320	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/ WATER
RELINQUISHED BY*	TIME/DATE	RECEIVE		TIME/DATE
1. Hay John	5:00 12/1/8	Chi Ou		7.00
2. W				
3.				
4.				
* STATE AFFILIATION	NEXT TO SIG	NATURE		
DUMADVC +				

aragan agarak di arawa (ilah 2011)...... Kaprealian Engineering, Inc. P.O. Box 913 Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.

Client Project ID: Matrix Description:

Mobil, Dublin, Village Pkwy/Amador Valley

Method of Analysis: EPA 418.1 (I.R. with clean-up)

First Sample Number: 812-0616

6 - TAC 644 AND 644 Sampled: December 7, 1988

Received: December 8, 1988 Extracted: December 8, 1988,

Analyzed: December 8, 1988 Reported: December 9, 1988 Bernsterene versker in eine omskieren ser i branke kolikier in belike kolik in berin de dek k

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0616	WO2(18)	110

Detection Limits:

1.0

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

SEQUOIA ANALYTICAL

P.O. Box 913 Benicia, CA 94510 Attention: Mardo Kaprealian, P.E. Sample Description: Soil, WO2(18) Method of Analysis: EPA 5030/8010 Lab Sample Number: 812-0616

Kaprealian Engineering, Inc. Client Project ID: Mobil, Dublin, Village Pkwy/Amador Valley S

Sampled: December 7, 1988. Received: December 8, 1988 Analyzed: December 8, 1988 Reported: December 9, 1988 ing pagangang berang pagang pagang kangang pagang pagang pagang pagang pagang pagang pagang pagang pagang paga

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit ug/kg		Sample Results ug/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.
trans-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.

SEQUOIA ANALYTICAL

and the second of the second o Kaprealian Engineering, Inc. P.O. Box 913 Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.

Client Project ID: Sample Description: Method of Analysis: Lab Sample Number:

Mobil, Dublin, Village Pkwy/Amador Valley Soil, WO2(18) EPA 5030/8020

812-0616

Sampled: December 7, 1988 Received: December 8, 1988 Analyzed: December 8, 1988 Reported: December 9, 1988

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit ug/kg		Sample Results ug/kg
Benzene	5.0	*******************************	N.D.
Chlorobenzene		**	N.D.
1,4-Dichlorobenzene	10.0		N.D.
1,3-Dichlorobenzene	. 10.0	••••	N.D
1,2-Dichlorobenzene	. 10.0	***************************************	N.D.
Ethyl Benzene	. 5.0	***************************************	N.D.
Toluene	. 5.0		N.D.
Xylene	. 5.0	***************************************	N.D.

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

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

(cignature) //	E OF 1:30pm		
(signacure)	Nobil - Oublin	-1/ill Ok	£ Mar 1 . 1/0//
SAMPLE DESCRIPTION/V AND PROJECT NUMBER:	1001 C DOGUIN	VINKAR INTENIE	MINIONES COLL
	GRAB OR		SOIL/ NATER
SAMPLE # ANALYSES	COMP.	CONTAINERS W	C
WOZ(18) IPHI), TOE, 8010/	8020 <u>G</u>		
			
			· · ·
			
		_	
RELINQUISHED BY* TIME/	DATE RECEIVES	TMT# #V# (Z/DATE
	KEEDI VEI	12-7	<u>17. 201.11 </u>
1. Hay Johnson 5:00	12/7/85 1 him Ower	5.00	
2.			
3.			
			·
4.			
* STATE AFFILIATION NEXT TO	O SIGNATURE		
REMARKS:			