



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

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

KEI-J88-025

February 25, 1988

Unocal Corporation
2175 N. California St., #650
Walnut Creek, CA 94596

Attention: Mr. Don Terry

Re: Soil Sampling Investigation
Unocal Service Station
7375 Amador Valley Rd.
Dublin, California

Dear Mr. Terry:

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

The scope of the work performed in our investigation consisted of the following:

Coordination with the regulatory agencies

Collection of samples of native soil beneath the storage tanks

Delivery of soil samples with proper chain of custody to a certified analytical laboratory

Technical review and preparation of this report

BACKGROUND

Tank excavation was initially conducted under the supervision of Applied Geosystems on December 2, 1987, when one 550 gallon waste oil tank was removed. One soil sample collected at a depth of 8 feet beneath the center of the tank had a total petroleum hydrocarbon (TPH) level of 330 parts per million (ppm) and a total oil and grease (TOG) level of 1700 ppm. Due to elevated hydrocarbon levels, additional excavation was conducted on December 14, 1987. Two additional samples were collected at depths of 12 and 15 feet. Groundwater was encountered at 15 feet. The soil sample analyses showed hydrocarbon levels ranging from non-detectable to 0.031 ppm, indicating that further soil excavation was successful in removing the contaminated soil. The excavated soil was transported to a Class I dump site by IT Corporation. Copies of the laboratory analyses are attached to this report in the Appendix B.

FIELD INVESTIGATION

KEI's field investigation was conducted on February 18 and 19, 1988, when three (3) underground fuel storage tanks were removed from the site. The tanks consisted of one 10000 gallon unleaded fuel tank, one 10000 gallon super unleaded fuel tank and one 10000 gallon diesel fuel tank. Tank removal was performed in the presence of Ms. Tonya L. Hoover of the Dublin Fire Department.

The tanks were made of steel and had various sized holes on the bottoms, ranging from a quarter inch to 1 inch in diameter.

Groundwater was encountered in the excavation at a depth of 10.5 feet preventing sampling beneath the tanks. Six (6) soil samples, labeled S-1, S-2, S-2D, S-3, S-4 and S-4D, were collected from the sidewalls of the tank pit at a depth of approximately 10 feet. The undisturbed samples were collected from bulk material excavated by backhoe. The samples were placed in clean, two-inch diameter brass tubes, sealed with aluminum foil and plastic caps, and were stored in a cooled ice chest for delivery to the contracted laboratory.

On February 19, the fuel tank pit was excavated to a depth of 13 feet in an attempt to remove as much contaminated soil as possible. In addition, 9000 gallons of standing groundwater was pumped out of the pit and was hauled away by a certified hazardous waste hauler. One water sample, labeled W-1, was then collected from the pit in a clean VOA vial, sealed with Teflon-lined screw cap, and stored on ice for delivery to the contracted laboratory. An additional sample, labeled W-2, was collected from a second excavation where the new tanks were to be placed, using the methods described above.

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February 25, 1988
Page 4.

All excavated soil was stockpiled on the site. A total of four composite soil samples were collected from the stockpiled soil. Comp A and Comp B were sampled on February 18 from the soil which was removed from above and around the fuel tanks. Comp C and Comp D were sampled on February 19, and were collected from the soil excavated from 10 to 13 feet in depth. Each composite sample consisted of four individual grab samples taken at various locations and depths ranging from one to two feet. The samples were placed in clean, brass tubes, sealed with aluminum foil and plastic caps and were stored on ice until delivery to the contracted laboratory.

SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavations consisted primarily of sandy clay. Minor to strong odors were present in the samples.

ANALYTICAL RESULTS

All samples were analyzed by HAZCAT Mobile Organics Laboratory of San Carlos, California and were accompanied by proper chain of custody forms. Samples S2, S3 and S4 and the two water samples were analyzed for total petroleum hydrocarbon (TPH) as gasoline, benzene, toluene, xylene and ethylbenzene (BTXE) concentrations. Samples S-1, S-2D and S-4D, and water samples W-1 and W-2 were analyzed for TPH as Diesel. The composite soil samples were

analyzed for TPH as gasoline and diesel, and BTXE. The analytical results are summarized in Table 1. Copies of the laboratory analyses and the chain of custody forms are attached to this report in the Appendix A.

DISCUSSION AND RECOMMENDATIONS

The analytical results of the soil from the fuel tank pit show level of TPH as gasoline ranging from 14 to 1700 ppm (sample S4). TPH levels greater than 1000 ppm are considered hazardous by the RWQCB. However, due to the proximity of the existing pump islands, further excavation in the vicinity of sample S4 was not feasible. TPH as diesel levels ranged from non-detectable to 83 ppm. The water sample from the fuel tank pit had a benzene level of 8200 ppb, which is considered contaminated by the RWQCB. The water sample from the new tank pit had non-detectable level of benzene.

To comply with the requirements of the RWQCB to determine the lateral extent of contamination, KEI recommends the installation of four (4) groundwater monitoring wells as shown on the attached location plan. Water samples collected from the wells should be analyzed for TPH as gasoline and diesel, TOG, BTXE and EPA 624 constituents.

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February 25, 1988
Page 6

The former fuel tank pit was backfilled in part with imported material and in part with the soil from which samples Comp A and Comp B were collected. The remaining 150 cubic yards of stockpiled soil from which Comp C and Comp D were collected remains stockpiled on the site. Permission was gained from the Bay Area Air Quality Management District (BAAQMD) to aerate the soil, beginning February 29, 1988. Additional soil samples will be collected as aeration proceeds.

A copy of this report should be sent to the Dublin Fire Department, the City of Dublin, the Alameda County Department of Health and to the Regional Water Quality Control Board.

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 groundwater levels and flow paths, thereby changing 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.

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

Sincerely,

Kaprealian Engineering, Inc.



Mardo Kaprealian

License #C29326
Exp. date 3/31/91

Attachments: Location plan
Laboratory analyses
Chain of custody forms
Table 1

TABLE 1

SUMMARY OF SOIL ANALYSES

(all analyses are in parts per million)

<u>Sample #</u>	TPH as <u>Diesel</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>	<u>Ethylbenzene</u>
S-1	<10	---	---	---	---	---
S-2	---	14	0.8	<0.1	2.7	4.6
S-2D	<10	---	---	---	---	---
S-3	---	14	1.1	<0.1	0.7	7.1
S-4	---	1700	8.0	22	340	62
S-4D	83	---	---	---	---	---

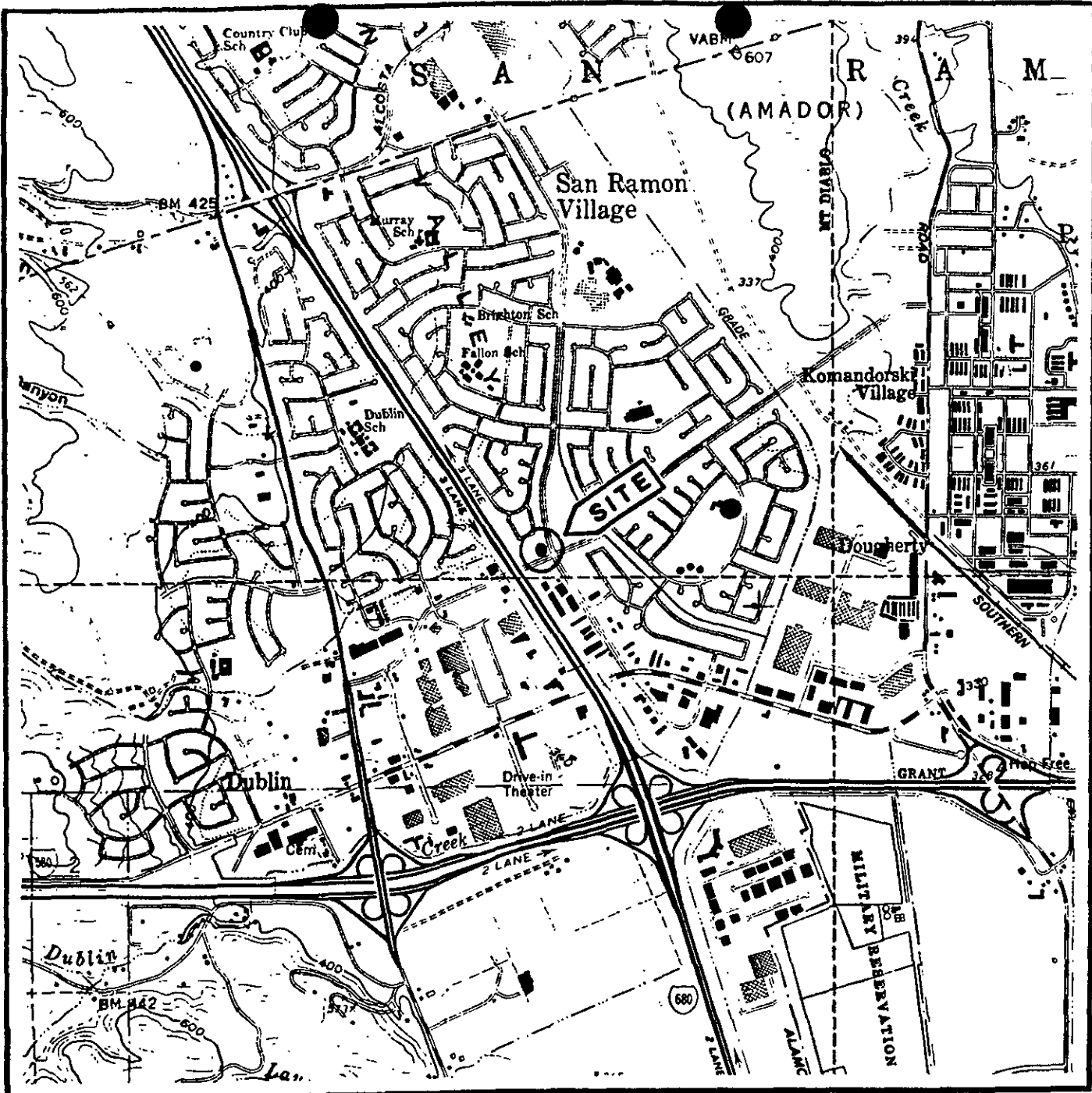
Summary of Water Analyses

(All Analyses in Parts Per Billion)

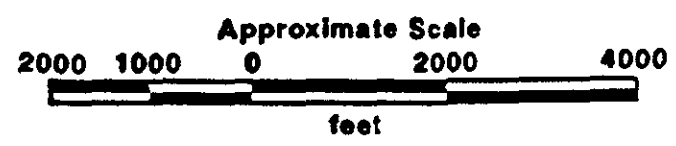
<u>Sample #</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>	<u>Ethylbenzene</u>
W-1	91,000	8200	1200	5300	4300
W-2	120	<0.5	5.0	12	2.4

Summary of Composite Sample Analyses

<u>Sample #</u>	TPH as <u>Diesel</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>	<u>Ethylbenzene</u>
Comp A	<10	5.5	<0.1	0.1	1.4	0.3
Comp B	45	2.0	0.1	0.1	0.7	0.2
Comp C	<10	69	1.4	1.9	31	6.5
Comp D	<10	440	1.3	18	130	30



Source: U.S. Geological Survey
 7.5-Minute Quadrangle
 Dublin
 Photorevised 1980





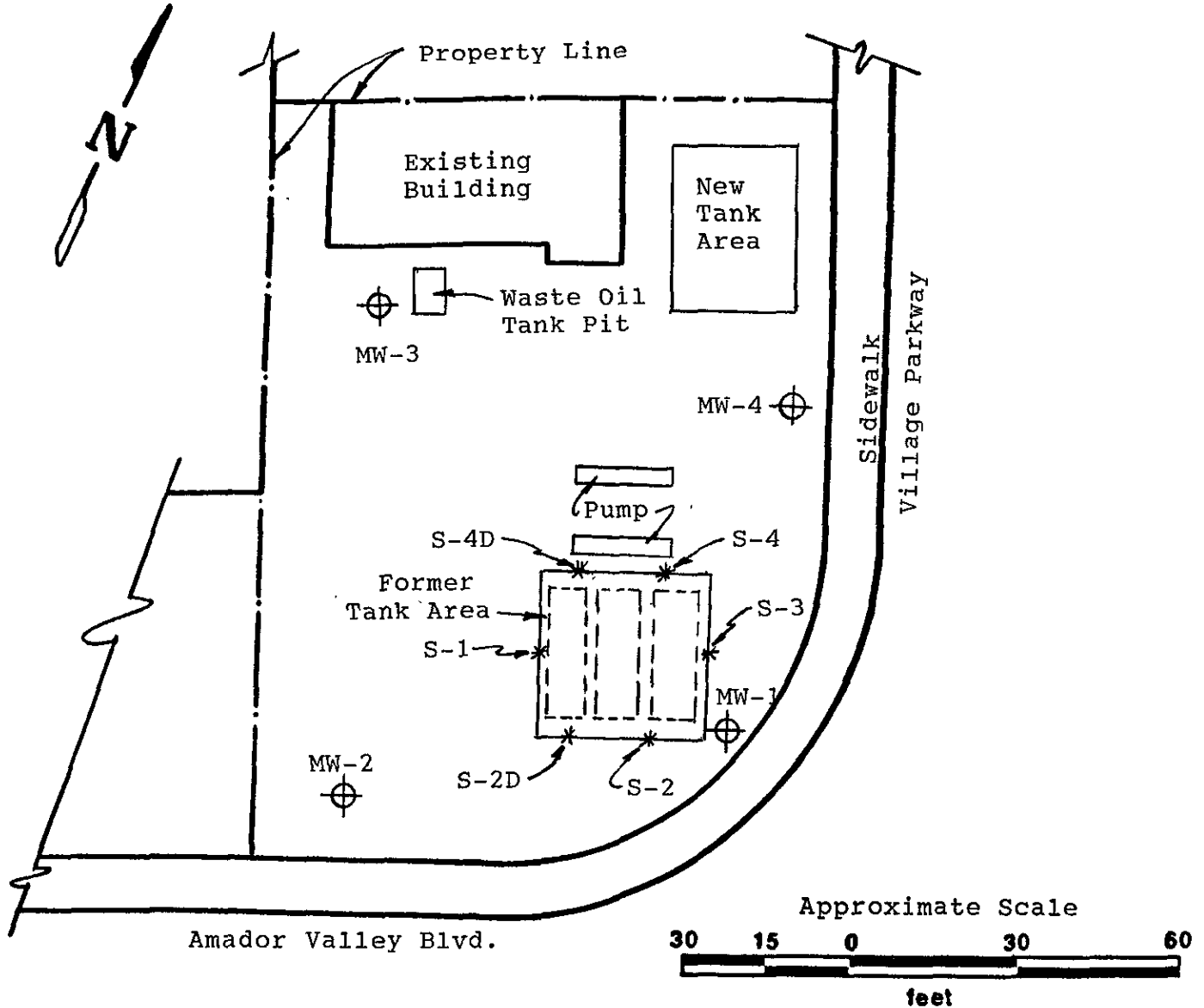
KAPREALIAN ENGINEERING, INC.

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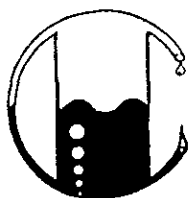


LOCATION PLAN

* Sample Location

⊕ Monitoring Well

UNOCAL STATION # 5366
7375 Amador Valley Blvd.
Dublin, California



HAZCAT Mobile Organics Lab

733 Dartmouth Avenue
San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering Inc.
P.O. BOX 913
Benicia, CA 94510
Attn: Mardo Kaprealian
President

Date Sampled: 02-19-88
Date Received: 02-20-88
Date Reported: 02-21-88

Sample Number

028119

Sample Description

Unocal-Dublin
7375 Amador Valley Rd.
W-1 WATER

ANALYSIS

	Detection Limit	Sample Results
	-----	-----
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	91,000
Benzene	0.5	8,200
Toluene	0.5	1,200
Xylenes	0.5	5,300
Ethylbenzene	0.5	4,300

Note: Analysis was performed using EPA methods 5030 and 602.

HAZCAT

Ronald G. Evans
Lab Director



HAZCAT Mobile Organics Lab

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President

Date Sampled: 02-19-88
Date Received: 02-20-88
Date Reported: 02-21-88

Sample Number

028120

Sample Description

Unocal-Dublin
7375 Amador Valley Rd.
W-2 WATER

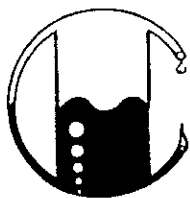
ANALYSIS

	Detection Limit	Sample Results
	----- ppb	----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	120
Benzene	0.5	<0.5
Toluene	0.5	5.0
Xylenes	0.5	12
Ethylbenzene	0.5	2.4

Note: Analysis was performed using EPA methods 5030 and 602.

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Lab Director



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President

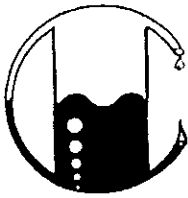
Date Sampled: 02-19-88
Date Received: 02-20-88
Date Reported: 02-22-88

Sample Number -----	Sample Description -----	Detection Limit -----	Total Petroleum Hydrocarbons as Diesel -----
		ppb	ppb
	Unocal-Dublin 7375 Amador Valley Rd.		
028119	W-1	50	<50
028120	W-2	50	<50

Note: Analysis was performed using EPA methods 3510 and 8015

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President

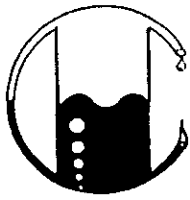
Date Sampled: 02-18-88
Date Received: 02-19-88
Date Reported: 02-19-88

Sample Number -----	Sample Description -----	Detection Limit -----	Total Petroleum Hydrocarbons as Diesel -----
		ppm	ppm
	Unocal-Dublin Amador Valley Rd.		
028100	S-1	10	<10
028104	S-2D	10	<10
028105	S-4D	10	83

Note: Analysis was performed using EPA methods 3550 and 8015

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Date Sampled: 02-18-88
Date Received: 02-19-88
Date Reported: 02-21-88

Sample Number

028101

Sample Description

Unocal-Dublin
Amador Valley Rd.
S-2 SOIL

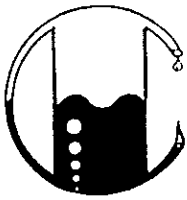
ANALYSIS

	Detection Limit	Sample Results
	----- ppm	----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	14
Benzene	0.1	0.8
Toluene	0.1	<0.1
Xylenes	0.1	2.7
Ethylbenzene	0.1	4.6

Note: Analysis was performed using EPA methods 5020 and 8015 with
method 8020 used for BTX distinction.

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President

Date Sampled: 02-18-88
Date Received: 02-19-88
Date Reported: 02-21-88

Sample Number

028102

Sample Description

Unocal-Dublin
Amador Valley Rd.
S-3 SOIL

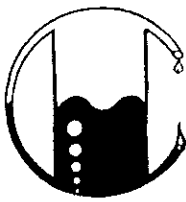
ANALYSIS

	Detection Limit	Sample Results
	----- ppm	----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	14
Benzene	0.1	1.1
Toluene	0.1	<0.1
Xylenes	0.1	0.7
Ethylbenzene	0.1	7.1

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

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Date Sampled: 02-18-88
Date Received: 02-19-88
Date Reported: 02-21-88

Sample Number

028103

Sample Description

Unocal-Dublin
Amador Valley Rd.
S-4 SOIL

ANALYSIS

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	1,700
Benzene	0.1	9.0
Toluene	0.1	22
Xylenes	0.1	340
Ethylbenzene	0.1	62

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans
Ronald G. Evans
Lab Director

KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER: *W. J. Keis* DATE/TIME OF COLLECTION: 2-18-88 TURNAROUND TIME: 24 hrs
 (signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER: Unocal-Dublin
Amador Valley Rd

SAMPLE #	ANALYSIS	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
S-1	TPH as Diesel	Grab	1	S
S-2	TPH, BTXE	"	1	S
S-3	TPH, BTXE	"	1	S
S-4	TPH, BTXE	"	1	S
S-2D	TPH as Diesel	"	1	S
S-4D	TPH as Diesel	"	1	S

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. <i>W. J. Keis</i>	2/19/88 10:55	<i>Bob Fisher</i>	10:55
2. <i>Bob Fisher</i>	12:50 2/19/88	<i>W. J. Keis</i>	2/19/88 12:30
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



HAZCAT Mobile Organics Lab

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San Carlos, CA 94070 • (415) 591-5820

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Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 02-18-88
Date Received: 02-19-88
Date Reported: 02-21-88

Sample Number

028106

Sample Description

Unocal-Dublin

Comp. A SOIL

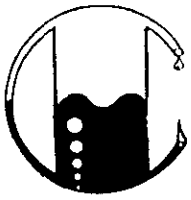
ANALYSIS

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	5.5
Benzene	0.1	<0.1
Toluene	0.1	0.1
Xylenes	0.1	1.4
Ethylbenzene	0.1	0.3

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans
Ronald G. Evans
Lab Director



HAZCAT Mobile Organics Lab

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San Carlos, CA 94070 • (415) 591-5820

Kaprealian Engineering, Inc.
P.O. BOX 913
Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 02-18-88
Date Received: 02-19-88
Date Reported: 02-21-88

Sample Number

028107

Sample Description

Unocal-Dublin

Comp. B SOIL

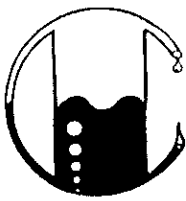
ANALYSIS

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	2.0
Benzene	0.1	0.1
Toluene	0.1	0.1
Xylenes	0.1	0.7
Ethylbenzene	0.1	0.2

Note: Analysis was performed using EPA methods 5020 and 8015 with
method 8020 used for BTX distinction.

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Ronald G. Evans
Lab Director



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Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 02-18-88
Date Received: 02-19-88
Date Reported: 02-19-88

Sample Number -----	Sample Description -----	Detection Limit ----- ppm	Total Petroleum Hydrocarbons as Diesel ----- ppm
	Unocal-Dublin		
028106	Comp. A	10	<10
028107	Comp. B	10	45

Note: Analysis was performed using EPA methods 3550 and 8015

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Ronald G. Evans
Lab Director

KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER: W. Kevin Lee DATE/TIME OF COLLECTION: 2-18-88 TURNAROUND TIME: 24hrs
 (signature)

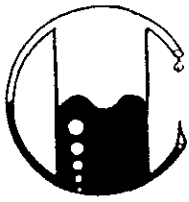
SAMPLE DESCRIPTION AND PROJECT NUMBER: Unocal-Dublin

<u>SAMPLE #</u>	<u>ANALYSIS</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u>Comp A</u>	<u>TPH, BTXE, TPHasD</u>	<u>Comp</u>	<u>2</u>	<u>S</u>
<u>Comp B</u>	<u>TPH BTXE, TPHasD</u>	<u>Comp</u>	<u>2</u>	<u>S</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

<u>RELINQUISHED BY*</u>	<u>TIME/DATE</u>	<u>RECEIVED BY*</u>	<u>TIME/DATE</u>
<u>W. Kevin Lee</u>	<u>2/19/88</u> <u>10:55</u>	<u>Bob Fisher</u>	<u>10:55</u> <u>2/19/88</u>
<u>Bob Fisher</u>	<u>12:50</u> <u>2/19/88</u>	<u>Mervyn Haywood</u>	<u>2/19/88</u> <u>12:50</u>
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



HAZCAT Mobile Organics Lab

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Kaprealian Engineering, Inc.
P.O. BOX 913
Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 02-22-88
Date Received: 02-22-88
Date Reported: 02-22-88

Sample Number

028121

Sample Description

Unocal-Dublin

Comp. C SOIL

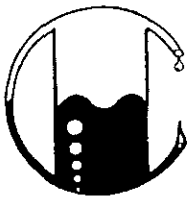
ANALYSIS

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	69
Benzene	0.1	1.4
Toluene	0.1	1.9
Xylenes	0.1	31
Ethylbenzene	0.1	6.5

Note: Analysis was performed using EPA methods 5020 and 8015 with method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans
Lab Director



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Kaprealian Engineering, Inc.
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Benicia, CA 94510
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 02-22-88
Date Received: 02-22-88
Date Reported: 02-22-88

Sample Number

028122

Sample Description

Unocal-Dublin

Comp. D SOIL

ANALYSIS

	Detection Limit ----- ppm	Sample Results ----- ppm
Total Petroleum Hydrocarbons as Gasoline	1	440
Benzene	0.1	1.3
Toluene	0.1	18
Xylenes	0.1	130
Ethylbenzene	0.1	30

Note: Analysis was performed using EPA methods 5020 and 8015 with
method 8020 used for BTX distinction.

HAZCAT

Ronald G. Evans
Lab Director



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Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 02-22-88
Date Received: 02-22-88
Date Reported: 02-22-88

Sample Number -----	Sample Description -----	Detection Limit -----	Total Petroleum Hydrocarbons as Diesel -----
		ppm	ppm
	Unocal-Dublin		
028121	Comp. C	10	<10
028122	Comp. D	10	<10

Note: Analysis was performed using EPA methods 3550 and 8015

HAZCAT

Ronald G. Evans
Lab Director

KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER: *W. Reece KES* DATE/TIME OF COLLECTION: 2/22/88 TURNAROUND TIME: 24 HRS.
 (signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER: Unocal - Dublin

SAMPLE #	ANALYSIS	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
<u>Comp C</u>	<u>TPH.G, TPH.D, BTEX</u>	<u>Grab</u>	<u>2</u>	<u>S</u>
<u>Comp D</u>	<u>" " "</u>	<u>Grab</u>	<u>2</u>	<u>S</u>

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
<u><i>W. Reece KES</i></u>	<u>12:55 2.22.88</u>	<u><i>Chris Reece KET</i></u>	<u>12:55 2.22.88</u>
<u><i>Chris Reece KET</i></u>	<u>2:15 2.22.88</u>	<u><i>Ray A(ET)</i></u>	<u>2/22/88 2:15 PM</u>
<u><i>Ray A(ET)</i></u>	<u>2/22/88 4:40 PM</u>	<u><i>Evans Hayat</i></u>	<u>2/22/88 4:10 PM</u>
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____

December 7, 1987

Eddie Neal Construction Company
2825 Alton Lane
Santa Rosa, CA 95403

Attention: Ed Hammerich

Re: Field sampling at

UNOCAL STATION
7375 AMADOR VALLEY BLVD
DUBLIN, CA

DECEMBER 2, 1987

SAMPLING REPORT

Field sampling was undertaken in accordance with State and local enforcement agency standards and requirements for objective analytical information on the levels of residual contaminants found outside the primary containment structure. This project concerned the following:

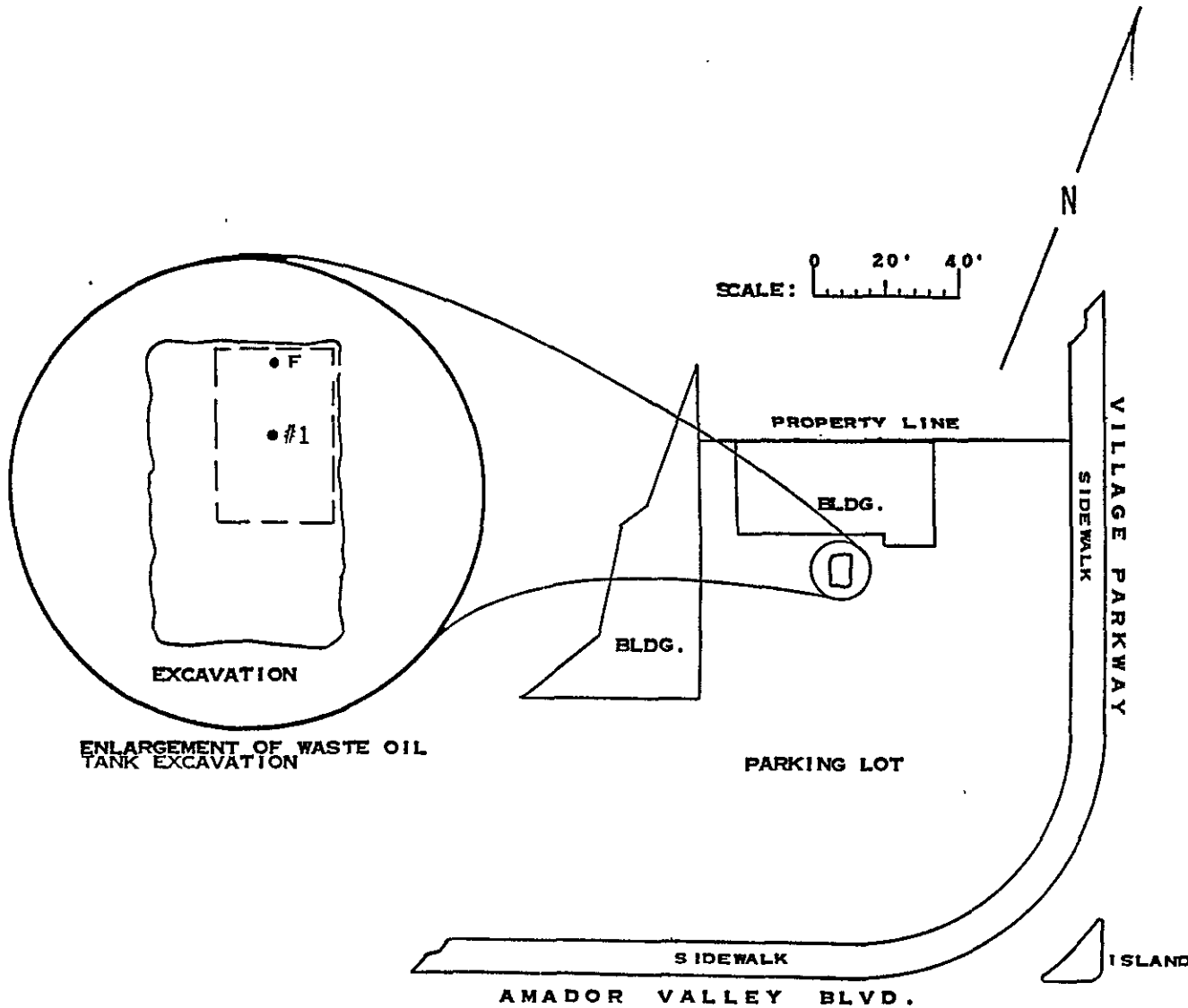
Underground storage tank removal

Reason for removal -- Replacement with a double-contained steel tank

Tank Type -- One 550 gallon waste oil

Observable Condition -- Rusted with numerous holes less than a 1/2" in diameter

Sampling was performed in accordance with approved methodology at the locations shown on the accompanying site diagram. Additional information is presented on the diagram including our field sampling designations and the lab identification numbers which reference the analytical results which will be found in the separate laboratory report. Sample material was collected in special containers appropriate to the type of analysis intended. Sample containers were sealed, chilled, and transported to the laboratory with standard chain of custody records maintained at each transmittal. This sampling report, the chain of custody, and the analytical report comprise the formal documentation of the sampling conducted during this phase of work at the site.



MAP REF: THOMAS BROS.
ALAMEDA
P.35 D-3

LEGEND: F = FILL END

#1 SOIL FROM 8'
ANALYSIS FOR TOTAL PETROLEUM
HYDROCARBONS (TPH)-HIGH BOILING
FRACTION (HBF), TOTAL OIL AND
GREASE (TOG), EPA 801.0 AND
EPA 802.0 AT SEQUOIA ANALYTICAL
LABORATORY
SEQUOIA LAB NO.7120126

SAMPLING PERFORMED BY
STEPHEN CARTER

DIAGRAM PREPARED BY
BRENT ADAMS

REPORTAGE

Submission to the Regional Water Quality Control Board and the local regulatory/enforcement agency should include copies of the sampling report, the chain of custody, and the laboratory report. The property owner should attach a cover letter and submit all documents together in a package.

The following addresses have been listed here for your convenience:

Water Quality Control Board
San Francisco Bay Region
1111 Jackson Street
Room 6040
Oakland, CA 94607
ATTN: Tom Callaghan

Dublin San Ramon Services District
Headquarters Station
9399 Fircrest Lane
San Ramon, CA 94583
ATTN: Tonya Snyder-Hoover

Alameda County Health
Hazardous Materials Management
420 27th Street, Room 322
Oakland, Ca 94612
ATTN: Storm Goranson

Please call if we can be of any further assistance.

for Richard C. Blaine
Richard C. Blaine

RCB/dmp



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Blaine Tech Services
P.O. Box 5745
San Jose, CA 95150
Attn: Richard Blaine

Date Sampled: 12/02/87
Date Received: 12/02/87
Date Analyzed: 12/04/87
Date Reported: 12/07/87

BTS #87336-C2, Eddie
Neal Construction

Sample Number

7120126

Sample Description

Soil, #1

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS

results in ppb

Benzene.....	300	1,2-Dichloropropane.....	< 50
Bromomethane.....	< 50	1,3-Dichloropropane.....	< 50
Bromodichloromethane.....	< 50	Ethylbenzene.....	< 50
Bromoform.....	< 50	Methylene chloride.....	< 50
Carbon tetrachloride.....	< 50	1,1,2,2-Tetrachloroethane...	< 50
Chlorobenzene.....	< 50	Tetrachloroethene.....	61
Chloroethane.....	< 50	1,1,1-Trichloroethane.....	< 50
2-Chloroethylvinyl ether...	< 50	1,1,2-Trichloroethane.....	< 50
Chloroform.....	< 50	Trichloroethene.....	< 50
Chloromethane.....	< 50	Toluene.....	150
Dibromochloromethane.....	< 50	Vinyl chloride.....	< 50
1,1-Dichloroethane.....	< 50	1,2-Dichlorobenzene.....	< 50
1,2-Dichloroethane.....	< 50	1,3-Dichlorobenzene.....	< 50
1,1-Dichloroethene.....	< 50	1,4-Dichlorobenzene.....	< 50
trans-1,2-Dichloroethene...	< 50		

Method of Analysis: EPA 8010/8020

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Blaine Tech Services
P.O. Box 5745
San Jose, CA 95150
Attn: Richard Blaine

Date Sampled: 12/02/87
Date Received: 12/02/87
Date Reported: 12/07/87
Project: BTS #87336-C2,
Eddie Neal Construction

TOTAL OIL AND GREASE

<u>Sample Number</u>	<u>Sample Description</u> Soil,	<u>Detection Limit</u> ppm	<u>Gravimetric Petroleum Oil</u> ppm
7120126	#1	30	1700

Method of Analysis: EPA 3550 with trichlorotrifluoroethane and gravimetric determination.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director



SEQUOIA Analytical Laboratory

2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Blaine Tech Services
P.O. Box 5745
San Jose, CA 95150
Attn: Richard Blaine

Date Sampled: 12/02/87

Date Received: 12/02/87

Date Reported: 12/07/87

Project: BTS #87336-C2,
Eddie Neal Construction

TOTAL PETROLEUM HYDROCARBONS

<u>Sample Number</u>	<u>Sample Description</u> Soil,	<u>Detection Limit</u> ppm	<u>High Boiling Point Hydrocarbons</u> ppm
7120126	#1	1	300

Method of Analysis: EPA 3550/8015

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

ANAMETRIX, INC.

LABORATORY SERVICES

ENVIRONMENTAL • ANALYTICAL CHEMISTRY

2754 AIELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1132

December 30, 1987

Work Order Number 8712090

Date Received 12/15/87

Project No. 87141-1

Greg Barclay
Applied GeoSystems
43255 Mission Blvd., Suite B
Fremont, CA 94539

One water and two soil samples were received for analysis of priority pollutants by GC/MS, total extractable hydrocarbons as diesel by GC, and total oil and grease by gravimetric analysis, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8712090-01	87141-1 W-15-PIT	624/8015/503E
-02	" S-1-121487	8240/8015/503E
-03	" S-2-121487	"

RESULTS

See enclosed data sheets, Forms 1-1 thru 3-3.

EXTRA COMPOUNDS

See enclosed data sheets, Forms 4-1 thru 4-2.

QUALITY ASSURANCE REPORTS

See enclosed data sheets, Forms 5-1 thru 5-2.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

BURT SUTHERLAND

Burt Sutherland
Laboratory Manager

BWS/da

Sample I.D. : 87141-1 W-15-PIT
 Matrix : WATER
 Date sampled : 12-14-87
 Date analyzed : 12-23-87
 Dilution : 1:2

Anametrix I.D. : 8712090-01
 Analyst : CP
 Supervisor : BWS
 Date released : 12-30-87
 Instrument : F1

CAS #	Compound Name	Det. Limit (ug/l)	Amt. Found (ug/l)	Q
74-87-3	* Chloromethane	14		U
75-01-4	* Vinyl Chloride	14		U
74-83-9	* Bromomethane	14		U
75-00-3	* Chloroethane	14		U
75-69-4	* Trichlorofluoromethane	4		U
75-35-4	* 1,1-Dichloroethene	4		U
76-13-1	# Trichlorotrifluoroethane	4		U
67-64-1	**Acetone	40		U
75-15-0	**Carbondisulfide	4		U
75-09-2	* Methylene Chloride	4		U
156-60-5	* Trans-1,2-Dichloroethene	4		U
75-34-3	* 1,1-Dichloroethane	4		U
78-93-3	**2-Butanone	40		U
156-59-2	* Cis-1,2-Dichloroethene	4		U
67-66-3	* Chloroform	4		U
71-55-6	* 1,1,1-Trichloroethane	4	5	+
56-23-5	* Carbon Tetrachloride	4		U
71-43-2	* Benzene	4	38	+
107-06-2	* 1,2-Dichloroethane	4		U
79-01-6	* Trichloroethene	4		U
78-87-5	* 1,2-Dichloropropane	4		U
75-27-4	* Bromodichloromethane	4		U
110-75-8	* 2-Chloroethylvinylether	4		U
108-05-4	**Vinyl Acetate	20		U
10061-02-6	* Trans-1,3-Dichloropropene	4		U
108-10-1	**4-Methyl-2-Pentanone	20		U
108-88-3	* Toluene	4	140	+
10061-01-5	* cis-1,3-Dichloropropene	4		U
79-00-5	* 1,1,2-Trichloroethane	4		U
127-18-4	* Tetrachloroethene	4		U
591-78-6	**2-Hexanone	20		U
124-48-1	* Dibromochloromethane	4		U
108-90-7	* Chlorobenzene	4		U
100-41-4	* Ethylbenzene	4	27	+
	**Total Xylenes	4	170	+
100-42-5	**Styrene	4		U
75-25-2	* Bromoform	4		U
79-34-5	* 1,1,2,2-Tetrachloroethane	4		U
541-73-1	* 1,3-Dichlorobenzene	4		U
106-46-7	* 1,4-Dichlorobenzene	4		U
95-50-1	* 1,2-Dichlorobenzene	4		U

* A 624/8240 approved compound (Federal Register, 10/26/84)

** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)

A compound added by Anametrix, Inc.

For reporting purposes, the following qualifiers (Q) are used:

+ : A value greater than or equal to the method detection limit.

U : The compound was analyzed for but was not detected.

Sample I.D. : 87141-1 S-1-121487
 Matrix : SOIL
 Date sampled : 12-14-87
 Date analyzed : 12-23-87
 Dilution : NONE

Anametrix I.D. : 8712090-02
 Analyst : *CP*
 Supervisor : *BWS*
 Date released : 12-30-87
 Instrument : F1

CAS #	Compound Name	Det. Limit (ug/kg)	Amt. Found (ug/kg)	Q
74-87-3	* Chloromethane	7		U
75-01-4	* Vinyl Chloride	7		U
74-83-9	* Bromomethane	7		U
75-00-3	* Chloroethane	7		U
75-69-4	* Trichlorofluoromethane	2		U
75-35-4	* 1,1-Dichloroethene	2		U
76-13-1	# Trichlorotrifluoroethane	2		U
67-64-1	**Acetone	20		U
75-15-0	**Carbondisulfide	2		U
75-09-2	* Methylene Chloride	2		U
156-60-5	* Trans-1,2-Dichloroethene	2		U
75-34-3	* 1,1-Dichloroethane	2		U
78-93-3	**2-Butanone	20		U
156-59-2	* Cis-1,2-Dichloroethene	2		U
67-66-3	* Chloroform	2		U
71-55-6	* 1,1,1-Trichloroethane	2		U
56-23-5	* Carbon Tetrachloride	2		U
71-43-2	* Benzene	2		U
107-06-2	* 1,2-Dichloroethane	2		U
79-01-6	* Trichloroethene	2		U
78-87-5	* 1,2-Dichloropropane	2		U
75-27-4	* Bromodichloromethane	2		U
110-75-8	* 2-Chloroethylvinylether	2		U
108-05-4	**Vinyl Acetate	10		U
10061-02-6	* Trans-1,3-Dichloropropene	2		U
108-10-1	**4-Methyl-2-Pentanone	10		U
108-88-3	* Toluene	2		U
10061-01-5	* cis-1,3-Dichloropropene	2		U
79-00-5	* 1,1,2-Trichloroethane	2		U
127 18-4	* Tetrachloroethene	2		U
591-78-6	**2-Hexanone	10		U
124-48-1	* Dibromochloromethane	2		U
108-90-7	* Chlorobenzene	2		U
100-41-4	* Ethylbenzene	2		U
	**Total Xylenes	2		U
100-42-5	**Styrene	2		U
75-25-2	* Bromoform	2		U
79-34-5	* 1,1,2,2-Tetrachloroethane	2		U
541-73-1	* 1,3-Dichlorobenzene	2		U
106-46-7	* 1,4-Dichlorobenzene	2		U
95-50-1	* 1,2-Dichlorobenzene	2		U

* A 624/8240 approved compound (Federal Register, 10/26/84)
 ** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
 # A compound added by Anametrix, Inc.

For reporting purposes, the following qualifiers (Q) are used:
 + : A value greater than or equal to the method detection limit.
 U : The compound was analyzed for but was not detected.

Sample I.D. : 87141-1 S-2-121487
 Matrix : SOIL
 Date sampled : 12-14-87
 Date analyzed : 12-23-87
 Dilution : NONE

Anametrix I.D. : 8712090-03
 Analyst : *CP*
 Supervisor : *BWS*
 Date released : 12-30-87
 Instrument : F1

CAS #	Compound Name	Det. Limit (ug/kg)	Amt. Found (ug/kg)	Q
74-87-3	* Chloromethane	7		U
75-01-4	* Vinyl Chloride	7		U
74-83-9	* Bromomethane	7		U
75-00-3	* Chloroethane	7		U
75-69-4	* Trichlorofluoromethane	2		U
75-35-4	* 1,1-Dichloroethene	2		U
76-13-1	# Trichlorotrifluoroethane	2		U
67-64-1	**Acetone	20	31	+
75-15-0	**Carbondisulfide	2	3	+
75-09-2	* Methylene Chloride	2		U
156-60-5	* Trans-1,2-Dichloroethene	2		U
75-34-3	* 1,1-Dichloroethane	2		U
78-93-3	**2-Butanone	20		U
156-59-2	* Cis-1,2-Dichloroethene	2		U
67-66-3	* Chloroform	2		U
71-55-6	* 1,1,1-Trichloroethane	2		U
56-23-5	* Carbon Tetrachloride	2		U
71-43-2	* Benzene	2	5	+
107-06-2	* 1,2-Dichloroethane	2		U
79-01-6	* Trichloroethene	2		U
78-87-5	* 1,2-Dichloropropane	2		U
75-27-4	* Bromodichloromethane	2		U
110-75-8	* 2-Chloroethylvinylether	2		U
108-05-4	**Vinyl Acetate	10		U
10061-02-6	* Trans-1,3-Dichloropropene	2		U
108-10-1	**4-Methyl-2-Pentanone	10		U
108-88-3	* Toluene	2		U
10061-01-5	* cis-1,3-Dichloropropene	2		U
79-00-5	* 1,1,2-Trichloroethane	2		U
127-18-4	* Tetrachloroethene	2		U
591-78-6	**2-Hexanone	10		U
124-48-1	* Dibromochloromethane	2		U
108-90-7	* Chlorobenzene	2		U
100-41-4	* Ethylbenzene	2		U
	**Total Xylenes	2		U
100-42-5	**Styrene	2		U
75-25-2	* Bromoform	2		U
79-34-5	* 1,1,2,2-Tetrachloroethane	2		U
541-73-1	* 1,3-Dichlorobenzene	2		U
106-46-7	* 1,4-Dichlorobenzene	2		U
95-50-1	* 1,2-Dichlorobenzene	2		U

* A 624/8240 approved compound (Federal Register, 10/26/84)

** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)

A compound added by Anametrix, Inc.

For reporting purposes, the following qualifiers (Q) are used:

+ : A value greater than or equal to the method detection limit.

U : The compound was analyzed for but was not detected.

Sample I.D. : 87141-1 W-15-PIT
 Matrix : WATER
 Date sampled : 12-14-87
 Date anl. TVH : NA
 Date ext. TEH : 12-17-87
 Date anl. TEH : 12-21-87

Anamatrix I.D. : 8712090-01
 Analyst : *mh*
 Supervisor : *FW*
 Date released : 12-30-87
 Date ext. TOG : 12-17-87
 Date anl. TOG : 12-17-87

CAS #	Compound Name	Det. Limit (ug/L)	Amt. Found (ug/L)	Q
71-43-2	Benzene	1		NR
108-88-3	Toluene	1		NR
100-41-4	Ethylbenzene	1		NR
	Total Xylenes	1		NR
	TVH as Gasoline	50		NR
	TEH as Diesel	50	870	+
	Total Oil & Grease	10000		U

For reporting purposes, the following qualifiers (Q) are used:
 + : A value greater than or equal to the method detection limit.
 U : The compound was analyzed for but was not detected.
 NR: Not requested.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.
 TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.
 TOG - Total Oil & Grease is determined by Standard Method 503E.
 BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

Sample I.D.	: 87141-1 S-1-121487	Anametrix I.D.	: 8712090-02
Matrix	: SOIL	Analyst	: mh
Date sampled	: 12-14-87	Supervisor	: FW
Date anl. TVH	: NA	Date released	: 12-30-87
Date ext. TEH	: 12-17-87	Date ext. TOG	: 12-17-87
Date anl. TEH	: 12-21-87	Date anl. TOG	: 12-17-87

CAS #	Compound Name	Det. Limit (ug/kg)	Amt. Found (ug/kg)	Q
71-43-2	Benzene	200		NR
108-88-3	Toluene	200		NR
100-41-4	Ethylbenzene	200		NR
	Total Xylenes	200		NR
	TVH as Gasoline	5000		NR
	TEH as Diesel	10,000		U
	Total Oil & Grease	30,000		U

For reporting purposes, the following qualifiers (Q) are used:
 + : A value greater than or equal to the method detection limit.
 U : The compound was analyzed for but was not detected.
 NR: Not requested.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.
 TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.
 TOG - Total Oil & Grease is determined by Standard Method 503E.
 BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

Sample I.D. : 87141-1 S-2-121487
Matrix : SOIL
Date sampled : 12-14-87
Date anl. TVH : NA
Date ext. TEH : 12-17-87
Date anl. TEH : 12-21-87

Anametrix I.D. : 8712090-03
Analyst : ml
Supervisor : Fjs
Date released : 12-30-87
Date ext. TOG : 12-17-87
Date anl. TOG : 12-29-87

CAS #	Compound Name	Det. Limit (ug/kg)	Amt. Found (ug/kg)	Q
71-43-2	Benzene	200		NR
108-88-3	Toluene	200		NR
100-41-4	Ethylbenzene	200		NR
	Total Xylenes	200		NR
	TVH as Gasoline	5000		NR
	TEH as Diesel	10,000		U
	Total Oil & Grease	30,000		U

For reporting purposes, the following qualifiers (Q) are used:

- + : A value greater than or equal to the method detection limit.
- U : The compound was analyzed for but was not detected.
- NR: Not requested.

TVH - Total Volatile Hydrocarbons is determined by modified EPA 8015 with either headspace or purge and trap.

TEH - Total Extractable Hydrocarbons is determined by modified EPA 8015 with direct injection.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX- Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow CRWQCB Region 2 guidelines.

ORGANICS ANALYSIS DATA SHEET - TENTATIVELY IDENTIFIED COMPOUNDS
 ANAMETRIX, INC. (408) 621-1132

Sample I.D. : 87141-1 W-15-PIT
 Matrix : WATER
 Date Sampled : 12-14-87
 Analyzed VOA : 12-23-87
 Dilution VOA : 1:2
 Analyzed SV : NA
 Dilution SV : NA

Anamatrix I.D. : 8712090-01
 Analyst : ARL
 Supervisor : BWS
 Date Released : 12-30-87

	CAS #	Scan#	Volatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1	611-14-3	1128	1-ethyl-2-methylbenzene	10	30
2	108-67-8	1138	1,3,5-trimethylbenzene	10	<10
3	620-14-4	1186	1-ethyl-3-methylbenzene	10	<10
4	95-63-6	1212	1,2,4-trimethylbenzene	10	40
5	526-73-8	1304	1,2,3-trimethylbenzene	10	10
6				10	
7				10	
8				10	
9				10	
10				10	
	CAS #	Scan#	Semivolatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1				10	
2				10	
3				10	
4				10	
5				10	
6				10	
7				10	
8				10	
9				10	
10				10	
11				10	
12				10	
13				10	
14				10	
15				10	
16				10	
17				10	
18				10	
19				10	
20				10	

Tentatively identified compounds are significant chromatographic peaks (TICs) other than priority pollutants. TIC spectra are compared with entries in the National Bureau of Standards mass spectral library. Identification is made by following US EPA guidelines and acceptance criteria. TICs are quantitated by using the area of the nearest internal standard and assuming a response factor of one (1). Values calculated are ESTIMATES ONLY.

Sample I.D. : 87141-1 S-2-121487
 Matrix : SOIL
 Date Sampled : 12-14-87
 Analyzed VOA : 12-23-87
 Dilution VOA : NONE
 Analyzed SV : NA
 Dilution SV : NA

Anamatrix I.D. : 8712090-03
 Analyst : *CP*
 Supervisor : *BWS*
 Date Released : 12-30-87

	CAS #	Scan#	Volatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1	365-59-3	300	2,3-dimethylpentane	5	10
2	590-73-8	320	2,2-dimethylhexane	5	10
3	565-75-3	455	2,3,4-trimethylpentane	5	<5
4	560-21-4	471	2,3,3-trimethylpentane	5	<5
5		1347	unknown hydrocarbon	5	<5
6				5	
7				5	
8				5	
9				5	
10				5	
	CAS #	Scan#	Semivolatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1				10	
2				10	
3				10	
4				10	
5				10	
6				10	
7				10	
8				10	
9				10	
10				10	
11				10	
12				10	
13				10	
14				10	
15				10	
16				10	
17				10	
18				10	
19				10	
20				10	

Tentatively identified compounds are significant chromatographic peaks (TICs) other than priority pollutants. TIC spectra are compared with entries in the National Bureau of Standards mass spectral library. Identification is made by following US EPA guidelines and acceptance criteria. TICs are quantitated by using the area of the nearest internal standard and assuming a response factor of one (1). Values calculated are ESTIMATES ONLY.

ANAMETRIX WORKORDER# : 8712090
 CLIENT PROJECT # : 87141-1

ANALYST : *CP*
 SUPERVISOR : *BW*

#	SAMPLE ID	VO1 (DCE)	VO2 (TOL)	VO3 (BFB)	A1 (2FP)	A2 (PHL)	A3 (TBP)	BN1 (NBZ)	BN2 (FBH)	BN3 (TPH)	TOTAL OUT
01	W-15-PIT	106	99	102							0
02											
03											
04											
05											
06											
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

ANAMETRIX PERCENT RECOVERY LIMITS
 (generated from sample data)

VO1 (DCE) = 1,2-DICHLOROETHANE-D4	82-124%
VO2 (TOL) = TOLUENE-D8	88-117%
VO3 (BFB) = BROMOFLUOROBENZENE	72-112%
A1 (2FP) = 2-FLUOROPHENOL	15-70%
A2 (PHL) = PHENOL-D5	17-73%
A3 (TBP) = 2,4,6-TRIBROMOPHENOL	19-137%
BN1 (NBZ) = NITROBENZENE-D5	26-101%
BN2 (FBH) = 2-FLUOROBIPHENYL	23-95%
BN3 (TPH) = TERPHENYL-D14	39-132%

ANAMETRIX WORKORDER# : 8712090
 CLIENT PROJECT # : 87141-1

ANALYST : *OP*
 SUPERVISOR : *BWS*

#	SAMPLE ID	VO1 (DCE)	VO2 (TOL)	VO3 (BFB)	A1 (2FP)	A2 (PHL)	A3 (TBP)	BN1 (NBZ)	BN2 (FBH)	BN3 (TPH)	TOTAL OUT
01	S-1-121487	93	100	93							0
02	S-2-121487	101	103	88							0
03											
04											
05											
06											
07											
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ANAMETRIX PERCENT RECOVERY LIMITS
 (generated from sample data)

VO1 (DCE)	= 1,2-DICHLOROETHANE-D4	80-127%
VO2 (TOL)	= TOLUENE-D8	80-125%
VO3 (BFB)	= 4-BROMOFLUOROBENZENE	64-115%
A1 (2FP)	= 2-FLUOROPHENOL	22-81%
A2 (PHL)	= PHENOL-D5	24-95%
A3 (TBP)	= 2,4,6-TRIBROMOPHENOL	33-119%
BN1 (NBZ)	= NITROBENZENE-D5	19-75%
BN2 (FBH)	= 2-FLUOROBIPHENYL	28-87%
BN3 (TPH)	= TERPHENYL-D14	29-122%

