



TRANSMITTAL PAGE

224.6-246.4
845-945
1.3

DATE: 3/15/96
 TO: SCOTT SEERY
ALAMEDA COUNTY
 FROM: HAIG KEVORK

Number of pages (including cover): 9+1

SUBJECT: UNOCAL #5366 - DUBLIN
1375 AMADOR VALLEY BLVD

ATTACHED PLEASE FIND THE ANALYTICAL RESULTS FOR THE SOIL SAMPLES COLLECTED ON 3/8/96 FROM THE FUEL TANK PIT SIDEWALLS (SW1 - SW4), THE PUMP ISLAND NEXT TO FORMER U.G. FUEL TANK LOCATION (P1 & P2), THE WASTE OIL TANK PIT SIDEWALLS (WOSW1 & WOSW2), BENEATH OIL/WATER SEPARATOR OWS(5.5) and OWS(10), AND BENEATH THE TWO HOISTS (H1 & H2).

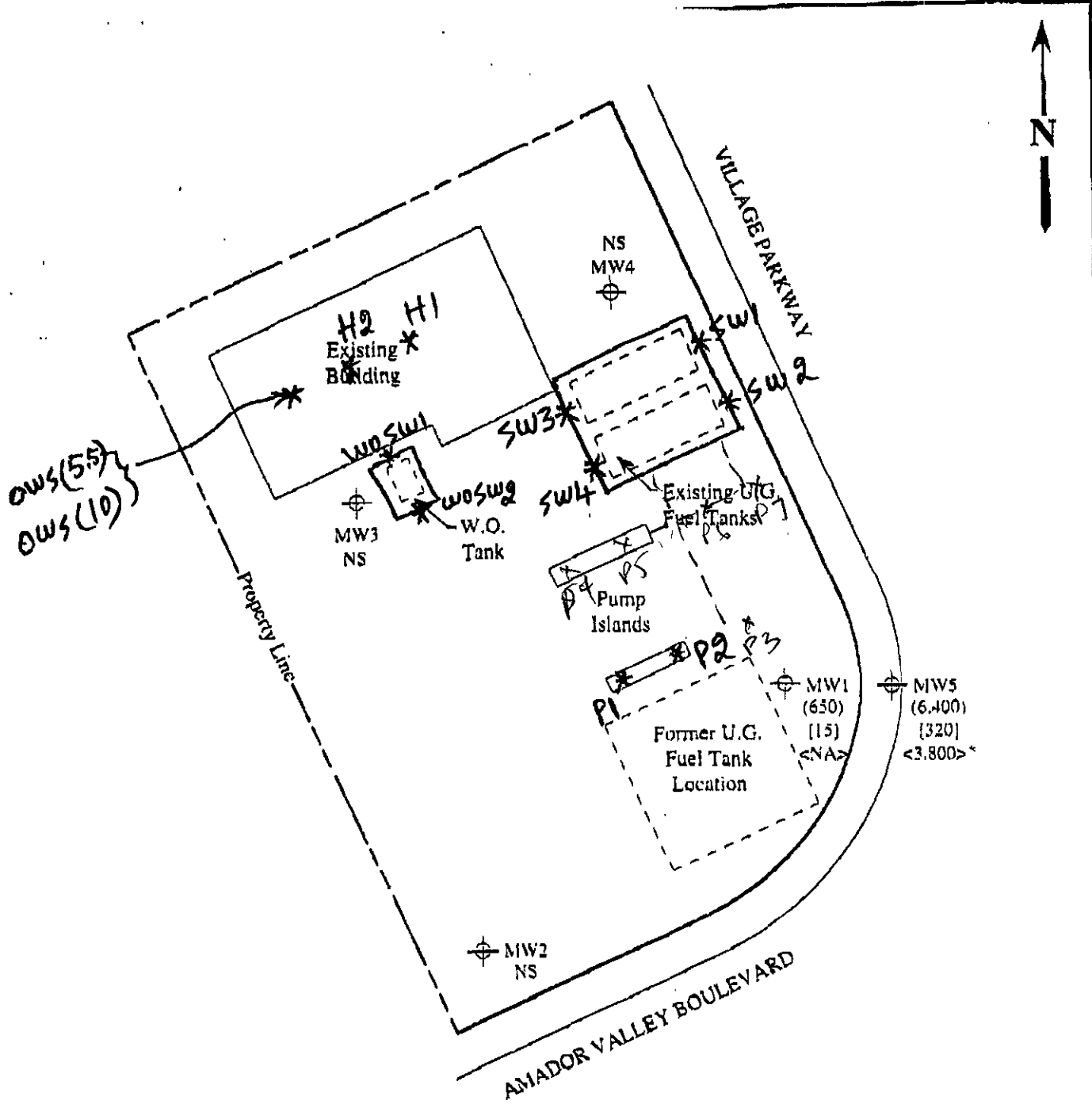
- WE ARE PLANNING TO PERFORM ADDITIONAL EXCAVATION AND SAMPLING IN THE VICINITY OF SAMPLE POINTS P1 & P2 ON

MONDAY 3/18/96.
 IF YOU WANT TO
 SEE ME PLEASE
 LET ME KNOW
 WHAT TIME.

If any problems occur in receiving, please call the number listed below

2401 Stanwell Drive, Suite 400
 Concord, CA 94520
 Tel. 510/602-5100 Fax: 510/687-0602

THANK YOU
H.K.



LEGEND

SENT BY: SEQUOIA ANALYTICAL

3-12-96 9:50

WALNUT CREEK-

5106870802# 2



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Sinker Avenue, Suite 8

Redwood City, CA 94061
Walnut Creek, CA 94598
Sacramento, CA 95814

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Handwritten initials

Kapreallan Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal 6366, 7378 Amador Valley Blvd., Dublin
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 803-0485

Sampled: Mar 8, 1996
Received: Mar 8, 1996
Reported: Mar 12, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS WITH BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0485 SW1	Sample I.D. 803-0485 SW2	Sample I.D. 803-0485 SW3	Sample I.D. 803-0485 SW4
Purgeable Hydrocarbons	1.0	N.D.	1.2	N.D.	N.D.
Benzene	0.0050	0.013	0.0093	N.D.	0.0057
Toluene	0.0050	0.011	0.088	N.D.	0.0097
Ethyl Benzene	0.0050	N.D.	0.021	N.D.	N.D.
Total Xylenes	0.0050	0.021	0.15	N.D.	0.023
Chromatogram Pattern:		..	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Analyzed:	3/11/96	3/11/96	3/11/96	3/11/96
Instrument Identification:	HP-2	HP-2	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	105	106	90	88

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

SEQUOIA ANALYTICAL, #1271

Handwritten signature
Alan B. Kump
Project Manager

8030485.KEL <1>



SENT BY: SEQUOIA ANALYTICAL ; 3-12-96 ; 8:57 ;

WALNUT CREEK+

5106870602:# 4



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680 Chesapeake Drive
404 N. Waget Lane
819 Striker Avenue, Suite #

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

PK

Kaprelian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #5355, 7375 Amador Valley Blvd.
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 803-0489

Sampled: Mar 8, 1996
Dublin Received: Mar 8, 1996
Reported: Mar 12, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0489 P1	Sample I.D. 803-0490 P2
Purgeable Hydrocarbons	1.0	180	87
Benzene	0.0050	1.1	0.44
Toluene	0.0050	5.5	0.43
Ethyl Benzene	0.0050	7.7	5.2
Total Xylenes	0.0050	39	14
Chromatogram Pattern:		Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	20	20
Date Analyzed:	3/11/98	3/11/96
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	105	88

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Alan B. Kemp
Project Manager



SENT BY: SEQUOIA ANALYTICAL

3-12-96 14:25

WALNUT CREEK

5106870602: # 3



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
#19 Striker Avenue, Suite B

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 354-9600
(510) 988-9600
(916) 921-9600

FAX (415) 354-9288
FAX (510) 988-9673
FAX (916) 921-0100

Kapreallan Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #5388, 7375 Amador Valley Blvd.
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 803-0498

Sampled: Mar 8, 1996
Received: Mar 8, 1996
Reported: Mar 12, 1996

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0498 WOSW1	Sample I.D. 803-0497 WOSW2	Sample I.D. 803-0498 OWS(5.5)	Sample I.D. 803-0498 OWS(10)
Extractable Hydrocarbons	1.0	2.2	N.D.	3,500	8.8

Chromatogram Pattern: Unidentified Hydrocarbons >C20 -- Unidentified Hydrocarbons <C15 >C18 Unidentified Hydrocarbons <C12 >C20

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	50	1.0
Date Extracted:	3/11/96	3/11/96	3/11/96	3/11/96
Date Analyzed:	3/11/96	3/11/96	3/11/96	3/11/96
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Albert B. Kemp
Project Manager

8030498.KEI <2>



SENT BY: SEQUOIA ANALYTICAL ; 3-12-98 ; 14:28 ;

WALNUT CREEK-

5108870802:# 5



Sequoia Analytical

690 Chaparral Drive
404 N. Wiget Lane
219 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9255
FAX (510) 988-0673
FAX (916) 921-0100

Kaprelian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #5306, 7375 Amador Valley Blvd.
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 803-0498

Sampled: Mar 8, 1998
Received: Mar 8, 1998
Extracted: Mar 11, 1998
Analyzed: Mar 12, 1998
Reported: Mar 12, 1998

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor
803-0496	WOSW1	N.D.	1.0
803-0497	WOSW2	N.D.	1.0
803-0498	OW5(5.5)	N.D.	1.0
803-0499	OW5(10)	N.D.	1.0

Detection Limits: 50

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

8030498.KEI <4>



SENT BY: SEQUOIA ANALYTICAL

; 3-12-96 ; 14:25 ;

WALNUT CREEK-

5106870602;# 2


**Sequoia
Analytical**

 680 Chestpeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

 Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95814

 (415) 364-9600
(510) 988-9600
(916) 921-9600

 FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

 Kapraalian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

 Client Project ID: Unocal #5388, 7575 Amador Valley Blvd.
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 803-0498

 Dublin
Sampled: Mar 8, 1996
Received: Mar 8, 1996
Reported: Mar 12, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 803-0498 WOSW1	Sample I.D. 803-0497 WOSW2	Sample I.D. 803-0498 OWS(5.5)	Sample I.D. 803-0499 OWS(10)	Sample I.D. 803-0500 H1	Sample I.D. 803-0501 H2
Purgeable Hydrocarbons	1.0	N.D.	N.D.	4,100	18	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	7.3	N.D.	N.D.	N.D.
Total Xylenes	0.0050	0.0070	N.D.	70	0.55	0.011	N.D.
Chromatogram Pattern:	--	--	--	Gasoline & Unidentified Hydrocarbons > C8	Unidentified Hydrocarbons > C8	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1,000	5.0	1.0	1.0
Date Analyzed:	3/11/96	3/11/96	3/11/96	3/11/96	3/11/96	3/11/96
Instrument Identification:	HP-5	HP-5	HP-5	HP-2	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	93	95	89	100	82	81

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kamp
Project Manager

8030498.KEL <1>



SENT BY: SEQUOIA ANALYTICAL : 3-12-96 : 15:25 :

WALNUT CREEK-

5106870602;# 2



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94596
Sacramento, CA 95834

(415) 864-9600
(510) 988-9600
(916) 921-9600

FAX (415) 864-9233
FAX (510) 988-9673
FAX (916) 921-0100

Kaprelian Engineering, Inc.
2401 Starwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #5385, 7375 Amador Valley Blvd.
Sample Matrix: Soil
Analysis Method: EPA 3580/8015 Mod.
First Sample #: 803-0500

Sampled: Mar 8, 1996
Received: Mar 8, 1996
Reported: Mar 12, 1996

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS AS HYDRAULIC FLUID

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0500 H1	Sample I.D. 603-0501 H2
Extractable Hydrocarbons	10	N.D.	N.D.

Chromatogram Pattern: -- --

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	3/11/96	3/11/96
Date Analyzed:	3/11/96	3/11/96
Instrument Identification:	HP-3B	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager

8030498.KEI <3>



P. 11

5106870802: # 6

WALNUT CREEK-

MPDS

3-12-96 ; 14:27 ;

510 689 1918

SENT BY: SEQUOIA ANALYTICAL

03-15-1996 11:31

UNOCAL 76

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- 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
- 819 Strider Ave., Suite 8 • Sacramento, CA 95834 • (916) 821-0600
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-0600
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-8900

Company Name: **KEI** Project Name: **FORMER UNOCAL #5366 - DUBLIN**
 Address: **2401 STANWELL DR. #400** UNOCAL Project Manager: **ED RALSTON**
 City: **CONCORD** State: **CA** Zip Code: **94520** Release #:
 Telephone: **602-5100** FAX #: **687-0602** Site #: **5366-7375 AMADOR VALLEY BLVD.**
 Report To: **KEI** Sampler: **HAIG KEVORK** QC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Work Days 5 Work Days 3 Work Days Drinking Water
 Time: 2 Work Days 1 Work Day 2-8 Hours Waste Water
 CODE: Misc. Detect. Eval. Remed. Demol. Closure Other

Client Sample ID	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G	BIXE	TPH-D	TOG	THP-D	THP-G	THP-L	THP-M	THP-N	THP-O	THP-P	THP-Q	THP-R	THP-S	THP-T	THP-U	THP-V	THP-W	THP-X	THP-Y	THP-Z	Comments
1. WOSW1	3/8/96	SOIL	1	TUBE	6030496	✓	✓	✓	✓																		
2. WOSW2			1		6030497	✓	✓	✓	✓																		
3. OWS(5.5)			1		6030498	✓	✓	✓	✓																		
4. OWS(10)			1		6030499	✓	✓	✓	✓																		
5. H1			1		6030500	✓	✓			✓																	
6. H2	↓	↓	1	↓	6030501	✓	✓			✓																	
7.																											
8.																											
9.																											
10.																											

Relinquished By: *[Signature]* Date: **3/8/96** Time: **1815** Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By Lab: *[Signature]* Date: **3/8/96** Time: **1815**

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
 1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____
 2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____
 Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Laboratory

White - Laboratory

Kapreallan Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Dennis Royce

Client Project ID: Unocal #5368, 7375 Amador Valley Blvd.,
Sample Matrix: Soil Dublin
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 603-0491

Sampled: Mar 8, 1996
Received: Mar 8, 1996
Reported: Mar 14, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0491 P 3	Sample I.D. 603-0492 P 4	Sample I.D. 603-0493 P 5	Sample I.D. 603-0494 P 6	Sample I.D. 603-0495 P 7
Purgeable Hydrocarbons	1.0	6.5	3.7	11	1.2	2.1
Benzene	0.0050	0.040	0.092	0.066	0.0093	0.013
Toluene	0.0050	0.019	N.D.	N.D.	N.D.	0.0091
Ethyl Benzene	0.0050	0.29	0.56	0.41	0.040	0.13
Total Xylenes	0.0050	0.015	0.019	0.30	0.030	0.17
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	3/11/96	3/11/96	3/11/96	3/11/96	3/11/96
Instrument Identification:	HP-5	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	76	107	107	106	108

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

SEQUOIA ANALYTICAL, #1271


Alan B. Kemp
Project Manager

6030489.KEI <3>



UNOCAL 76

- 690 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
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- 819 Striker Ave., Suite B • Sacramento, CA 95834 • (916) 921-9600
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

Company Name: **KEI** Project Name: **FORMER UNOCAL #5366 - DUBLIN**

Address: **2401 STANWELL DR. # 400** UNOCAL Project Manager: **ED RALSTON**

City: **CONCORD** State: **CA** Zip Code: **94520** Release #:

Telephone: **602-5100** FAX #: **687-0609** Site #: **5366 - 7375 AMADOR VALLEY BLVD.**

Report To: **KEI** Sampler: **HAIG KEVORK** OC Data: Level D (Standard) Level C Level B Level A

Turnaround 10 Work Days 5 Work Days 3 Work Days

Time: 2 Work Days 1 Work Day 2-8 Hours

Drinking Water Waste Water Other

Analyses Requested

CODE: Misc. Detect. Eval. Remed. Demol. Closure

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	TPH-G BTEX										Comments			
1. P1	3/8/96	SOIL	1	TUBE	6030489	✓	✓												24 Hrs
2. P2			1		6030490	✓	✓												24 Hrs
3. P3			1		6030491	✓	✓												5 DAYS
4. P4			1		6030492	✓	✓												
5. P5			1		6030493	✓	✓												
6. P6			1		6030494	✓	✓												
7. P7	↓	↓	1	↓	6030495	✓	✓												↓ 8/12/99
8.																			
9.																			
10.																			

Relinquished By: <i>[Signature]</i>	Date: 3/8/96	Time: 1815	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <i>[Signature]</i>	Date: 3/8/96	Time: 1815

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report

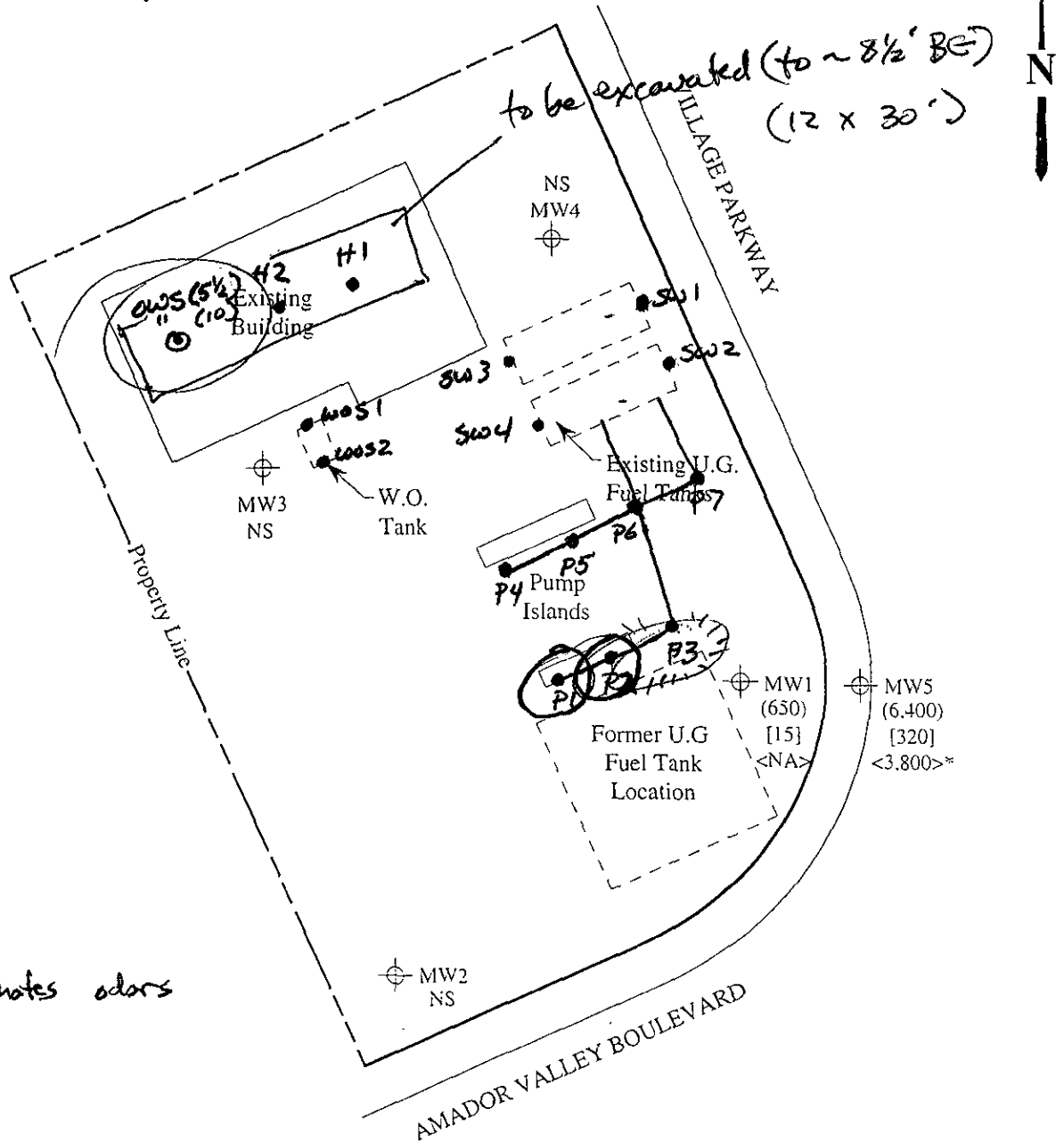
1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? Yes No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____

Pink - Client
Yellow - Laboratory
White - Laboratory

3/8/96 sample locations

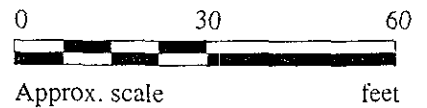


○ designates odors

LEGEND

- ⊕ Monitoring well
- () Concentration of TPH as gasoline in $\mu\text{g/L}$
- [] Concentration of benzene in $\mu\text{g/L}$
- < > Concentration of TPH as diesel in $\mu\text{g/L}$
- NS Not sampled. NA Not analyzed

* The lab reported that the hydrocarbons detected did not appear to be diesel.



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON NOVEMBER 28, 1995

MPDS SERVICES, INCORPORATED

UNOCAL SERVICE STATION #5366
7375 AMADOR VALLEY BLVD.
DUBLIN, CALIFORNIA

FIGURE
2