



MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Tosco #5043, 499 Hegenberger Rd., Oakland
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 706-0076

Sampled: Jun 1, 1997
Received: Jun 2, 1997
Reported: Jun 11, 1997

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 706-0076 MW 3A ^	Sample I.D. 706-0077 MW 7 ^	Sample I.D. 706-0078 MW 8 ^
Extractable Hydrocarbons	50	610	69	320

RECEIVED

1:14 pm, Apr 30, 2009

Alameda County
Environmental Health

Chromatogram Pattern:

Diesel & Unidentified Hydrocarbons > C20	Diesel & Unidentified Hydrocarbons > C20	Diesel & Unidentified Hydrocarbons < C15, > C20
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5043 SS BP _____

QI _____ QM _____ TRANSMITTAL _____

1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Extracted:	6/5/97	6/5/97	6/5/97
Date Analyzed:	6/10/97	6/10/97	6/10/97
Instrument Identification:	HP-3A	HP-3A	HP-3A

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

Signature on File

Alan B. Kemp
Project Manager

Please Note:
^ This sample appears to contain diesel and non-diesel mixtures. "Unidentified Hydrocarbons < C 15" are probably gasoline; "> C 20" refers to unidentified peaks in the total oil and grease range.





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Tosco #5043, 499 Hegenberger Rd., Oakland
Matrix: Liquid

QC Sample Group: 7060076-078

Reported: Jun 11, 1997

QUALITY CONTROL DATA REPORT

ANALYTE	Diesel
Method:	EPA 8015
Analyst:	EPA 3510

MS/MSD
Batch#: BLK060597

Date Prepared: 6/5/97
Date Analyzed: 6/9/97
Instrument I.D.#: HP-3A
Conc. Spiked: 300 µg/L

Matrix Spike
% Recovery: 83

Matrix Spike
Duplicate %
Recovery: 90

Relative %
Difference: 7.7

LCS Batch#: LCS060597

Date Prepared: 6/5/97
Date Analyzed: 6/9/97
Instrument I.D.#: HP-3A

LCS %
Recovery: 90

% Recovery Control Limits:	60-140
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SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



CHAIN OF CUSTODY

9206096

SAMPLER <i>John Giddings</i>			TOSCO S/S # <u>5013</u> CITY: <u>Oakland</u>					ANALYSES REQUESTED										TURN AROUND TIME: <u>5 Day</u>		
WITNESSING AGENCY			ADDRESS: <u>499 Hagenberg</u>					TRID										REMARKS		
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION													
NW3A	6-1-97		/					/												
NW7	"		/					/												
NW8	"		/					/												
REINQUISHED BY:		DATE/TIME	RECEIVED BY:			DATE/TIME	THE FOLLOWING <u>MUST BE</u> COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSE.													
<i>John Giddings</i>		6/1 12:40	 			 	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>Y</u>													
(SIGNATURE)		(SIGNATURE)					2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>Y</u>													
(SIGNATURE)		(SIGNATURE)					3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>N</u>													
(SIGNATURE)		(SIGNATURE)					4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>Y</u>													
(SIGNATURE)		(SIGNATURE)	<i>[Signature]</i>			6/2/97 12:40	SIGNATURE: <i>[Signature]</i>				TITLE: <u>Analyst</u>				DATE: <u>6/2/97</u>					

Note: All water containers to be sampled for TPHG/BTEX, B010 & B240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HN03. All other containers are unpreserved.



MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Tosco, #5043, 499 Hegenberger Rd.
Matrix Descript: Water Oakland
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 705-1808

Sampled: May 27, 1997
Received: May 29, 1997
Reported: Jun 5, 1997

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L
705-1808	MW 3A	670	6.5	ND	ND	ND
705-1809	MW 7	68	ND	ND	ND	ND
705-1810	MW 8	310	0.88	0.67	15	70

Detection Limits:

50

0.50

0.50

0.50

0.50

Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services	Client Project ID:	Tosco, #5043, 499 Hegenberger Rd.	Sampled:	May 27, 1997
2401 Stanwell Dr., Ste. 300	Matrix Descript:	Water	Received:	May 29, 1997
Concord, CA 94520	Analysis Method:	EPA 5030/8015 Mod./8020	Reported:	Jun 5, 1997
Attention: Jarrel Crider	First Sample #:	705-1808		

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Chromatogram Pattern	DL Mult. Factor	Date Analyzed	Instrument ID	Surrogate Recovery, % QC Limits: 70-130
705-1808	MW 3A	Gasoline	10	6-4-97	HP-4	93
705-1809	MW 7	Gasoline	1.0	6-3-97	HP-4	100
705-1810	MW 8	Gasoline	1.0	6-3-97	HP-4	89

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





Sequoia Analytical

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

Redwood City, CA 94061
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

MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Tosco, #5043, 499 Hegenberger Rd.
Sample Descript: Water Oakland
Analysis for: MTBE (Modified EPA 8020)
First Sample #: 705-1808

Sampled: May 27, 1997
Received: May 29, 1997
Analyzed: Jun 3, 1997
Reported: Jun 5, 1997

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L
705-1808	MW 3A	25	250
705-1809	MW 7	5.0	N.D.
705-1810	MW 8	5.0	N.D.

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Tosco, #5043, 499 Hegenberger Rd., Oakland
Matrix: Liquid

QC Sample Group: 7051808-810

Reported: Jun 5, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC060397 802004A	GC060397 802004A	GC060397 802004A	GC060397 802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	7051571	7051571	7051571	7051571
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/3/97	6/3/97	6/3/97	6/3/97
Analyzed Date:	6/3/97	6/3/97	6/3/97	6/3/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	16	17	16	50
MS % Recovery:	80	85	80	83
Dup. Result:	17	18	17	54
MSD % Recov.:	85	90	85	90
RPD:	6.1	5.7	6.1	7.7
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	4LCS060397	4LCS060397	4LCS060397	4LCS060397
Prepared Date:	6/3/97	6/3/97	6/3/97	6/3/97
Analyzed Date:	6/3/97	6/3/97	6/3/97	6/3/97
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	18	19	18	56
LCS % Recov.:	90	95	90	93

MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130
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Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.
** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager



M P D S Services, Inc.

2401 Stanwell Drive, Suite 400, Concord, CA 94520
 Tel: (510) 602-5120 Fax: (510) 689-1918

CHAIN OF CUSTODY

SAMPLER			UNOCAL Tosco S/S # <u>5043</u> CITY: <u>Oakland</u>					ANALYSES REQUESTED							TURN AROUND TIME:		
WITNESSING AGENCY: <u>John C. ...</u>			ADDRESS: <u>499 Heggenberger Rd.</u>					TPH-G	BTXE	MTBE							REMARKS <u>3 day</u>
SAMPLE ID NO	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION										
HW3A	5-27-97		/			2		/	/	/		7051808	A-B				
HW3	"		/			2		/	/	/		7051809					
HW3	"		/			2		/	/	/		7051810	V				

RELINQUISHED BY: <u>[Signature]</u>	DATE/TIME: <u>5/29/97</u>	RECEIVED BY: <u>[Signature]</u>	THE FOLLOWING <u>MUST</u> BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:		
(SIGNATURE)		(SIGNATURE)	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE?	<u>Y</u>	
(SIGNATURE)		(SIGNATURE)	2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED?	<u>Y</u>	
(SIGNATURE)		(SIGNATURE)	3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE?	<u>N</u>	
(SIGNATURE)		(SIGNATURE)	4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED?	<u>Y</u>	
(SIGNATURE)		(SIGNATURE)	SIGNATURE: <u>[Signature]</u>	TITLE: <u>Analyst</u>	DATE: <u>5/29/97</u>



Sequoia Analytical

680 Chesapeake Drive	Redwood City, CA 94063	(415) 364-9600	FAX (415) 364-9233
404 N. Wiget Lane	Walnut Creek, CA 94598	(510) 988-9600	FAX (510) 988-9673
819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

RT

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

Client Project ID: Unocal #5043, 449 Hegenberger Rd.
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 704-1230
Oakland

Sampled: Apr 21, 1997
Received: Apr 22, 1997
Reported: May 5, 1997

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 704-1230 MW-8 (6)
Purgeable Hydrocarbons	1.0	1.3
Benzene	0.0050	0.0051
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	0.015
Total Xylenes	0.0050	0.041
MTBE:	0.050	N.D.
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	4/28/97
Instrument Identification:	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	82

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



**Sequoia
Analytical**

680 Chesapeake Drive	Redwood City, CA 94063	(415) 364-9600	FAX (415) 364-9233
404 N. Willet Lane	Walnut Creek, CA 94598	(510) 988-9600	FAX (510) 988-9673
819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

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

Client Project ID: Unocal #5043, 449 Hegenberger Rd.
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 704-1230

Sampled: Apr 21, 1997
Received: Apr 22, 1997
Reported: May 5, 1997

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 704-1230 MW-8 (6)
Extractable Hydrocarbons	1.0	N.D.

Chromatogram Pattern.

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	4/28/97
Date Analyzed:	4/29/97
Instrument Identification:	HP-3A

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

Alan Kemp
Project Manager

UNOCAL 76

600 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
 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 94596 • (510) 988-9600
 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800

SEQUOIA ANALYTICAL 510 988 9673 05/06/97 08:34 07/13 NO:278

Consultant Company: K.E.I.		Project Name: 449 HEGENBERGER ROAD	
Address: 2401 STANWELL DR, #400		UNOCAL Project Manager: DAVE DE WITT	
City: CONCORD	State: CA	Zip Code: 94520	AFE #:
Telephone: (510) 602-8100		FAX #: 607-0602	
Report To: ROBIN		Site #, City, State: #5043, OAKLAND, CA	
Sampler:		QC Data: <input checked="" type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> 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

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

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Analyses Requested				Comments
						TPH-G	BTEX	MTBE	TPH-D	
1. MW8(6)	4-21-97	SOIL	1	TUBE	7041230	X	X	X	X	
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By:	Date: 4-22-97	Time: 9:55	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab:	Date: 4/23/97	Time: 0955

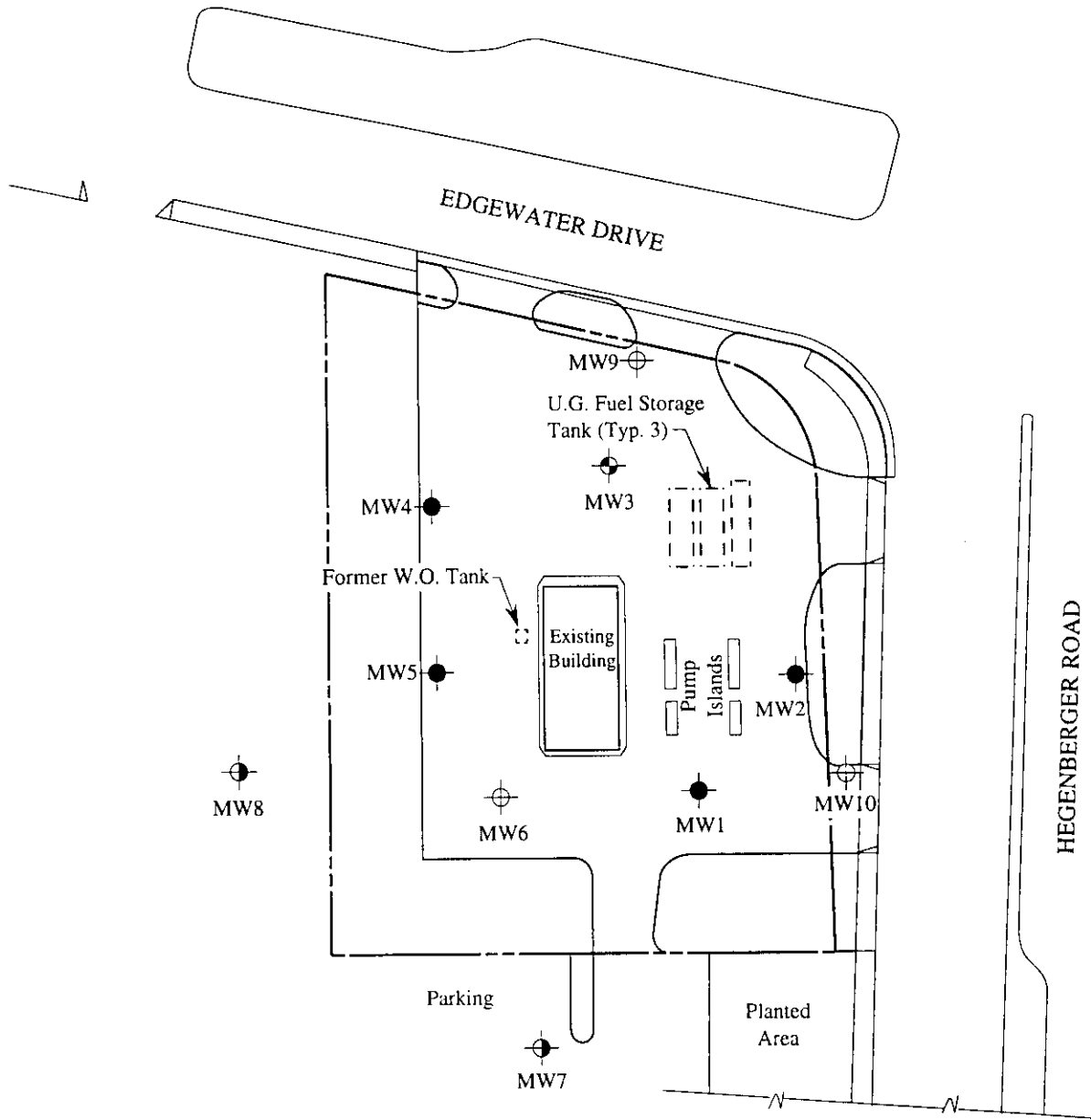
Were Samples Received in Good Condition? Yes No
 Samples on Ice? Yes No
 Method of Shipment **KEI**
 Page **1** of **1**

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? _____

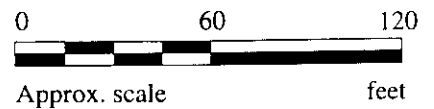
Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client Yellow - Laboratory White - Laboratory



LEGEND

- ⊕ Monitoring well (existing)
- Monitoring well (destroyed)
- ⊙ Monitoring well (to be reinstated / reconstructed)
- ⊛ Monitoring well (proposed)



EXISTING AND PROPOSED MONITORING WELL LOCATION MAP



**UNOCAL SERVICE STATION #5043
449 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

**FIGURE
1**