

RECEIVED

2:13 pm, Apr 15, 2009

Alameda County
Environmental Health

August 2, 1999

41-0212-01

Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, CA 94502

ATTN: MS. SUSAN HUGO

SITE: FORMER TOSCO 76 SERVICE STATION 3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

RE: UNDERGROUND STORAGE TANK CLOSURE REPORT

RECEIVED

AUG 06 1999

ENV. COMPLIANCE

Dear Ms. Hugo:

On behalf of Tosco Marketing Company, TRC/ Alton Geoscience submits this report of underground storage tank (UST) and product piping removal activities conducted at the former Tosco 76 Service Station 3737, located at 1400 Powell Street, Emeryville, California.

1.0 PRODUCT PIPING REMOVAL AND OVEREXCAVATION

On May 7, 1999 under the supervision of TRC/ Alton Geoscience, Norman and Norman completed the removal of product piping associated with the former fuel dispenser islands.

Immediately following the piping removal and under the direction of Robert Weston with Alameda County Health Care Services (ACHCS), soil samples D-1, D-2, PL-1, PL-2, PL-3, and PL-4 were collected at various points along the former product line trench and at the former dispenser islands (Figure 1). These samples were collected at depths ranging from 1.5 to 4.0 feet below grade (fbg).

On May 11, 1999, Norman and Norman under the supervision of TRC/ Alton Geoscience and Robert Weston with ACHCS, overexcavated soil from below the former northwest dispenser and product piping. Approximately six cubic yards of soil was removed, transported, and disposed of at Forward Inc. Landfill in Manteca, California according to Department of Transportation requirements. Soil sample PL-2 at a depth of 4 fbg was collected from below the excavation (Figure 1). Please refer to Appendix A for the waste disposal manifests for the excavated soil.

253737	SS	<input checked="" type="checkbox"/>	BP	
<input checked="" type="checkbox"/>	QM		TRANSMITTAL	
		3	4	5

Underground Storage Tank Closure Report

Former Tosco 76 Service Station 3737

August 2, 1999

The soil samples from below the product piping and the composite samples from the excavation were submitted to a state certified lab and analyzed for total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D), benzene, toluene, ethyl benzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8015/8020. Analytical results are summarized in Table 1. Laboratory reports and Chain of Custody documentation are included in Appendix B.

Also on May 11, 1999, TRC/ Alton under the direction of ACHCS, collected a groundwater sample from TCW-1 (Figure 1). The groundwater sample was analyzed for TPH-G, BTEX, TPH-D, and MTBE by EPA Method 8015/8020 and MTBE was confirmed by EPA Method 8260. Analytical results are summarized in Table 3. Copies of laboratory results and Chain of Custody documentation are presented in Appendix B.

2.0 WASTE OIL UST REMOVAL

On May 24, 1999, one single-walled 550-gallon steel waste oil UST, located west of the station building was removed under the direction of Susan Hugo with ACHCS and supervision of TRC/ Alton Geoscience (Figure 1). Upon removal of the UST, two small holes on the top tank wall were observed while no holes were seen on either the bottom or sidewalls of the tank. The UST was transported from the site by Erickson Inc. for disposal. A copy of the uniform hazardous waste manifest is provided in Appendix A.

Field hydrocarbon measurements were taken from soil samples collected from the bottom and side walls of the excavation cavity. Soil samples were collected for laboratory analysis based on discoloration of the soil, field hydrocarbon data, and by the direction of the ACHCS inspector present during the excavation.

Soil samples WO-4 through WO-7 and WO-1 were collected from the bottom and sidewalls of the excavation at depths of 7.5 and 10.0 fbg (Figure 2). These soil samples were submitted to a state certified laboratory for analysis. All samples were analyzed for TPH-G, TPH-D, total petroleum hydrocarbons as motor oil (TPH-MO), BTEX, and MTBE using EPA method 8015/8020. Additional analyses were performed for semi-volatile organics using EPA Method 8270 and halogenated organic compounds using EPA Method 8010 for soil samples WO-1 and WO-6. Analytical results are summarized in Table 2. Laboratory reports and Chain of Custody documentation are included in Appendix B.

Underground Storage Tank Closure Report
Former Tosco 76 Service Station 3737
August 2, 1999

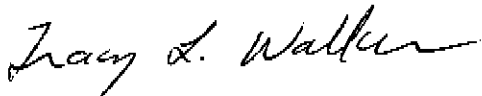
If you have any questions regarding this report, please contact us at (925) 688-1200.

Sincerely,

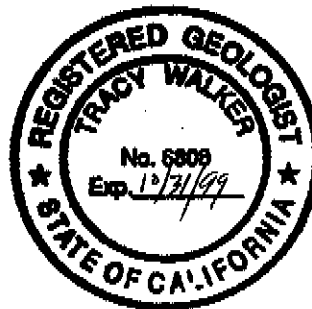
ALTON GEOSCIENCE



Tom Seeliger
Associate



Tracy L. Walker, RG
Associate



Figures: (1) Site Plan, May 1999
(2) Waste Oil Tank Soil Samples, May 1999

Tables: (1) Product Piping Removal Soil Sampling Analytical Results
(2) Waste Oil Tank Removal Soil Sampling Analytical Results
(3) Summary of Groundwater Chemical Analysis

Appendix: (A) General Field Procedures and Waste Manifests
(B) Copies of Official Laboratory Reports and Chain of Custody Forms

cc: Dave DeWitt, Tosco Marketing Company

enclosures

p:\projects\tosco\3737\wotr3737.doc

FIGURES



ONE-STORY METAL BUILDING

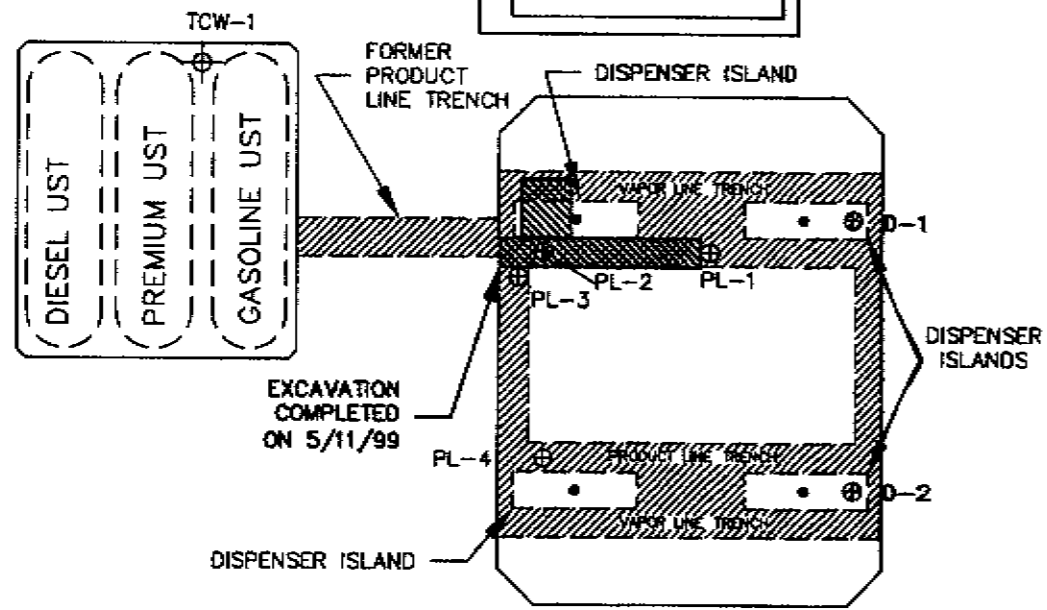
TWO-STORY METAL BUILDING

STATION BUILDING

FORMER WASTE OIL TANK
(See Figure 2)

PELADEAU STREET

HOLLIS STREET



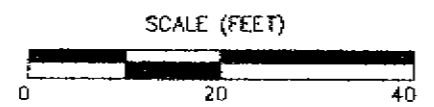
LEGEND

- Existing Canopy Support
- ⊕ Tank Cavity Well
- ⊕ Soil Boring

POWELL STREET

SITE PLAN
May 1999

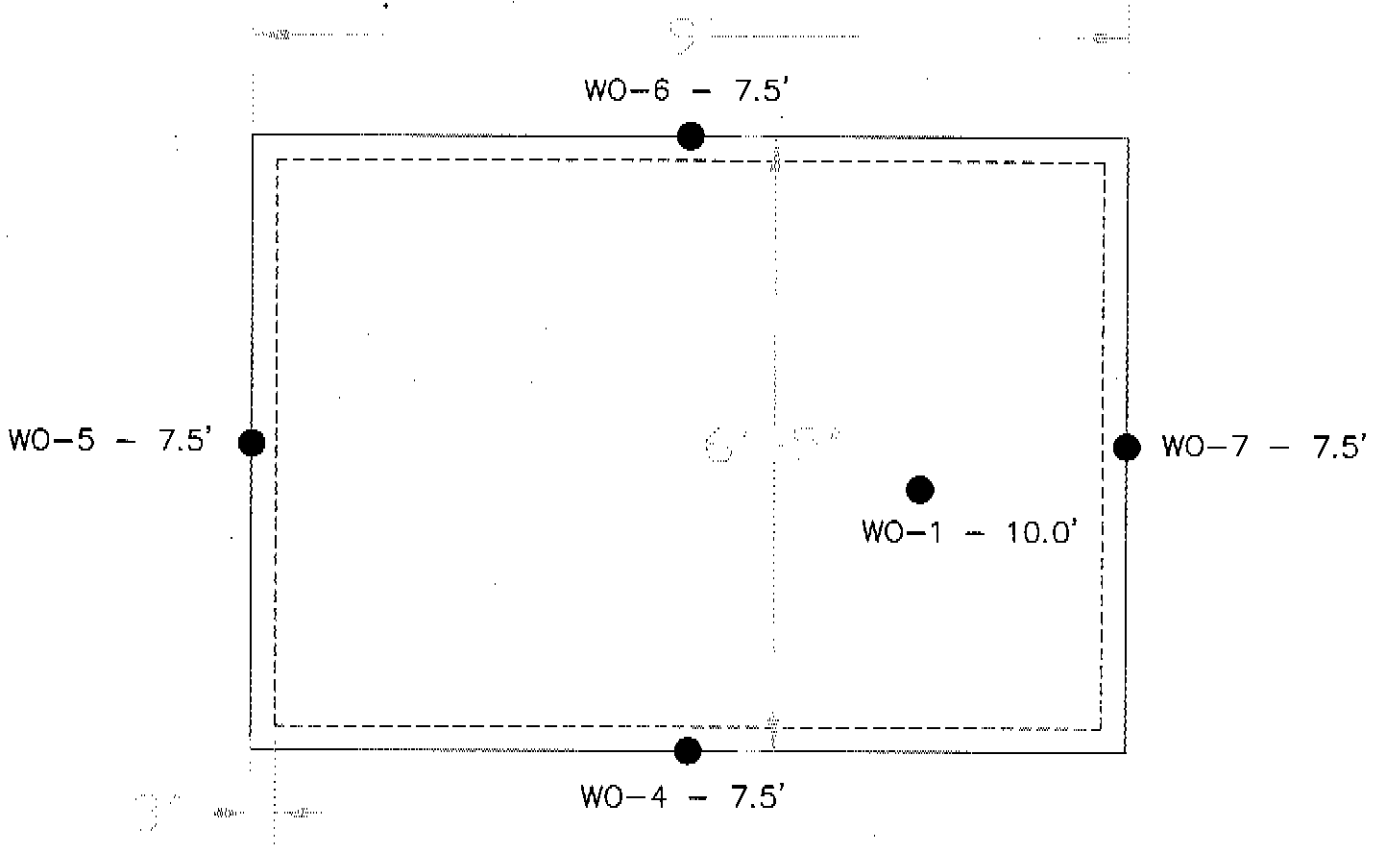
Tosco Station No. 3737
1400 Powell Street
Emeryville, California



SOURCE: Union Oil Co. Site Plan, 1979.

FIGURE 1

projects\cad_drow\tosco\emeryvil\3737\site.dwg



WASTE OIL TANK SOIL SAMPLES
May 1999

Tosco Station No. 3737
1400 Powell Street
Emeryville, California

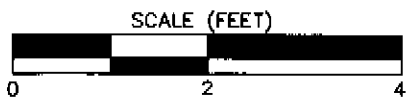


FIGURE 2

TABLES

Table 1
Product Piping Removal Soil Sampling Analytical Results
Former Tosco 76 Service Station 3737

Sample ID	Date	Depth (feet)	TPHg (ppm)	TPHd (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MtBE 8020 (ppm)	MtBE 8260 (ppm)
PL-2	05/11/99	4.0	40	530	0.48	0.23	0.27	0.33	0.91	—
D-1	05/07/99	1.5	ND<1.0	ND<1.0	ND<0.0050	0.0062	ND<0.0050	ND<0.0050	0.011	—
D-2	05/07/99	1.5	61	36	0.50	0.26	0.13	0.37	0.74	—
PL-1	05/07/99	2.0	460	260	0.37	0.41	0.27	1.40	ND<0.050	—
PL-2	05/07/99	2.0	1,200	710	2.4	23	6.8	46	ND<0.050	—
PL-3	05/07/99	4.0	310	120	ND<0.0050	1.6	1.1	4.1	ND<0.050	—
PL-4	05/07/99	2.0	39	ND<1.0	2.1	1.6	1.6	4.1	1.1	0.27

NOTES: ppm = parts per million
TPHg = total petroleum hydrocarbons as gasoline
TPHd = total petroleum hydrocarbons as diesel
MtBE = methyl tert butyl ether
ND = not detected at or above method detection limit
— = not analyzed

Table 2
Waste Oil Tank Removal Soil Sampling Analytical Results

Former Tosco 76 Service Station 3737

Sample ID	Date	Depth (feet)	TPHg (ppm)	TPHd (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	MtBE 8020 (ppm)	TPH-MO (ppm)
WO-1	05/24/99	10.0	1.4	51	ND<0.0050	ND<0.0050	0.0072	0.039	ND<0.050	121
WO-4	05/24/99	7.5	220	1,100	ND<0.0050	1.1	0.61	0.82	ND<0.050	970
WO-5	05/24/99	7.5	470	1,000	ND<0.0050	0.91	0.81	1.8	ND<0.050	840
WO-6	05/24/99	7.5	370	1,100	ND<0.0050	0.51	0.36	1.9	ND<0.050	1100
WO-7	05/24/99	7.5	86	130	0.30	0.40	1.3	6.0	ND<0.050	220

NOTES:

- ppm = parts per million
- TPHg = total petroleum hydrocarbons as gasoline
- TPHd = total petroleum hydrocarbons as diesel
- MtBE = methyl tert butyl ether
- ND = not detected at or above method detection limit

Table 3
Summary of Groundwater Chemical Analysis
 Former Tosco 76 Service Station 3737

Sample ID	Date	TPHg (ppb)	TPHd (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MtBE 8020 (ppb)	MtBE 8260 (ppb)
TCW-1*	05/07/99	4,400	2,600	520	12	72	24	1,300	540

NOTES:

- ppb = parts per billion
- TPHg = total petroleum hydrocarbons as gasoline
- TPHd = total petroleum hydrocarbons as diesel
- MtBE = methyl tert butyl ether
- ND = not detected at or above method detection limit
- * = "grab" type groundwater sample.

APPENDIX A
GENERAL FIELD PROCEDURES AND
WASTE MANIFESTS

GENERAL FIELD PROCEDURES

EXCAVATION SOIL SAMPLING

Excavation soil samples are collected either by driving a stainless steel sample tube directly into freshly uncovered soil, or from the backhoe bucket by driving the sample tube into a relatively coherent and undisturbed portion of soil within the bucket. Excavated soil is temporarily stockpiled onsite. Stockpile samples are collected by shoveling below the surface of the pile and inserting a steel sample tube into the soil.

SOIL SAMPLE HANDLING

Upon retrieval, soil samples are immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps, and wrapped with tape. Each sample is labeled with sample identification, site identification, sampler's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are placed in a cooler with ice at approximately 4 degrees Celsius prior to and during transport to a state-certified laboratory for analysis. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4 degrees Celsius for possible future testing.

DECONTAMINATION

Prior to use, the sampler and sampling tubes are brush-scrubbed in a Liqui-nox and potable water solution and rinsed twice in clean potable water. Sampling equipment and tubes are also decontaminated before each sample is collected to avoid cross-contamination between sample locations.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAL00013763254912	Manifest Document No. 1 of 1	2. Page 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address TOSCO 2000 CROW CANYON PL. Suite 400 SAN RAMON, CA 94608			State Manifest Occurrence Number 98454912		State Generator ID
4. Generator's Phone 925-277-2384		5. Transporter 1 Company Name ECOLOGY CONTROL INDUSTRIES		6. US EPA ID Number CAD982030173	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter 1 Phone 610-235-1393	
9. Designated Facility Name and Site Address ERICKSON INC. 265 PARR BLVD RICHMOND, CA 94801			10. US EPA ID Number CAD0094663912		E. State Transporter's ID
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) WASTE EMPTY STORAGE TANK Non-RCRA hazardous waste solid			12. Containers No. Type 001 TP 00 550 P	13. Total Quantity	14. Unit Wt/Vol
15. Additional Descriptions for Materials Listed Above 1 EMPTY STORAGE TANK(S) # 26630 TANK(S) HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY			K. Handling Codes for Wastes Listed Above		
24 Hour Emergency Telephone Number 925-671-9200			24 Hour Emergency Contact W.A. ARNER		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.			SITE LOCATION 1400 POWELL EMERYVILLE, CA		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: W.A. ARNER TOSCO Signature: <i>[Signature]</i> Month: 05 Day: 24 Year: 99			18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: Robert Stucke Signature: <i>[Signature]</i> Month: 05 Day: 24 Year: 99		
19. Discrepancy Indication Space			20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____		

DO NOT WRITE BELOW THIS LINE.

**JOB ACCEPTANCE NO.****340822****TO BE COMPLETED BY THE GENERATOR**

GENERATOR:
TOSCO
MAILING ADDRESS:
 2000 CROW CANYON PLACE #400
 CITY STATE ZIP
 SAN RAMON, CA 94583
PHONE:
 (925) 277-2384
CONTACT PERSON:
 DAVE DEWITT
SIGNATURE OF AUTHORIZED AGENT / TITLE: * *Jim Manley* **DATE:** 6/2/99

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:
 GLOVES GOGGLES RESPIRATOR HARD HAT
 TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE:

<input type="checkbox"/> TREATMENT SOIL	<input type="checkbox"/> SLUDGE
<input type="checkbox"/> DISPOSAL SOIL	<input type="checkbox"/> NON-FRIABLE ASBESTOS
<input type="checkbox"/> CONSTRUCTION SOIL	<input type="checkbox"/> WOOD
<input type="checkbox"/> STOCK PILE	<input type="checkbox"/> ASH
	<input type="checkbox"/> OTHER

GENERATING FACILITY:
 TOSCO STATION #3737
 1400 POWELL STREET
 EMERYVILLE, CA

RECEIVING FACILITY:
 FORWARD INC. LANDFILL
 9999 SOUTH AUSTIN ROAD
 MANTECA, CALIFORNIA 95336
 (209) 982-4298 PHONE
 (209) 982-1009 FAX

**TRANSPORTER
HAULER MUST COMPLETE**

NAME: MANLEY & SONS TRUCKING, INC.
ADDRESS: 8896 ELDER GREEN ROAD
 CITY STATE ZIP
 SACRAMENTO, CA 95828
PHONE: (916) 381-6864
SIGNATURE OF AUTHORIZED AGENT OR DRIVER: * *[Signature]* **DATE:** 6/2/99

TRACTOR LIC #: 4L30445 **TRUCK NUMBER:** M21
TRAILER LIC #: 1VB8233
TRAILER LIC #:
 END DUMP BOTTOM DUMP TRANSFER
 ROLL-OFF(S) FLAT-BED VAN DRUMS

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

REMARKS:

FACILITY TICKET NUMBER:

SIGNATURE OF AUTHORIZED AGENT: * **DATE:**

CUBIC YARDS: 18 YARDS

DISPOSAL METHOD	TO BE COMPLETED BY FORWARD				
	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input type="checkbox"/> SOIL					
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					



JOB ACCEPTANCE NO.

890822

TO BE COMPLETED BY THE GENERATOR

GENERATOR
TOSCO
MAILING ADDRESS
2000 CROW CANYON PLACE #400
CITY STATE ZIP
SAN RAMON CA 94583
PHONE
(925) 277-2384
CONTACT PERSON
DAVE DEWITT
SIGNATURE OF AUTHORIZED AGENT / TITLE * Tim M. **DATE** 6/2/99

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
 GLOVES GOGGLES RESPIRATOR HARD HAT
 TY-VEK OTHER
SPECIAL HANDLING PROCEDURES:

WASTE TYPE
 TREATMENT SOIL SLUDGE
 DISPOSAL SOIL NON-FRIABLE ASBESTOS
 CONSTRUCTION SOIL WOOD
 STOCK FILE ASH
 OTHER

RECEIVING FACILITY
FORWARD INC. LANDFILL
9999 SOUTH AUSTIN ROAD
MANTECA, CALIFORNIA 95336
(209) 982-4298 PHONE
(209) 982-1009 FAX

GENERATING FACILITY
TOSCO STATION #3737
1400 POWELL STREET
EMERYVILLE, CA

TRANSPORTER
HAULER MUST COMPLETE

NAME
MANLEY & SONS TRUCKING INC
ADDRESS
8896 ELDER GREEK ROAD
CITY STATE ZIP
SACRAMENTO CA 95828
PHONE
(916) 281-6854
SIGNATURE OF AUTHORIZED AGENT OR DRIVER * [Signature] **DATE** 6-2-99

TRACTOR LIC 5477180
TRUCK NUMBER S-3 T-3
TRAILER LIC W27348
TRAILER LIC
END DUMP **BOTTOM DUMP** **TRANSFER**
ROLL-OFF(S) **FLAT-BED** **VAN** **DRUMS**

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.
REMARKS
FACILITY TICKET NUMBER
SIGNATURE OF AUTHORIZED AGENT * **DATE**

CUBIC YARDS
18 YARDS

DISPOSAL METHOD	TO BE COMPLETED BY FORWARD				
	DISPOSE	BIG	PAERATE	STOCKPILE	OTHER
<input type="checkbox"/> SOIL					
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					



JOB ACCEPTANCE NO.

740802

TO BE COMPLETED BY THE GENERATOR

GENERATOR

MAILING ADDRESS

CITY STATE ZIP CROW CANYON PLACE #400

PHONE SAN RAMON, CA 94583

CONTACT PERSON (925) 277-2984

SIGNATURE OF AUTHORIZED AGENT / TITLE **DATE**

* *[Signature]* 6/2/99

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

GLOVES GOGGLES RESPIRATOR HARD HAT

TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE

TREATMENT SOIL SLUDGE

DISPOSAL SOIL NON-FRIABLE ASBESTOS

CONSTRUCTION SOIL WOOD

STOCK PILE ASH

OTHER

RECEIVING FACILITY

FORWARD INC. LANDFILL

9999 SOUTH AUSTIN ROAD

MANTECA, CALIFORNIA 95336

(209) 982-4298 PHONE

(209) 982-1009 FAX

GENERATING FACILITY

TOSCO STATION #3737

1400 POWELL STREET

EMERYVILLE, CA

TRANSPORTER
HAULER MUST COMPLETE

NAME

ADDRESS MANLEY & SONS TRUCKING INC.

8896 ELDER CREEK ROAD

CITY STATE ZIP SACRAMENTO, CA 95828

PHONE (916) 381-6864

SIGNATURE OF AUTHORIZED AGENT OR DRIVER **DATE**

* *[Signature]* 6-2-99

TRACTOR LIC. # **TRUCK NUMBER**

SW84227 531

TRAILER LIC. #

1W01496

TRAILER LIC. #

END DUMP **BOTTOM DUMP** **TRANSFER**

ROLL-OFF(S) **FLAT-BED** **VAN** **DRUMS**

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT **DATE**

*

DISPOSAL METHOD	TO BE COMPLETED BY FORWARD				
	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input type="checkbox"/> SOIL					
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					

CUBIC YARDS

18 YARDS

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

APPENDIX B

COPIES OF LABORATORY REPORTS



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 905-0414

Sampled: May 7, 1999
Received: May 7, 1999
Reported: May 10, 1999

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 905-0414 D-1(1.5)	Sample I.D. 905-0415 PL-3(4)	Sample I.D. 905-0416 PL-1(2)	Sample I.D. 905-0417 PL-4(2)	Sample I.D. 905-0418 D-2(1.5)	Sample I.D. 905-0419 PL-2(2)
Purgeable Hydrocarbons	1.0	N.D.	310	460	39	61	1,200
Benzene	0.0050	N.D.	N.D.	0.37	2.1	0.50	2.4
Toluene	0.0050	0.0062	1.6	0.41	1.0	0.26	23
Ethyl Benzene	0.0050	N.D.	1.1	0.27	1.6	0.13	6.8
Total Xylenes	0.0050	N.D.	4.1	1.4	4.1	0.37	46
MTBE	0.050	0.011	N.D.	N.D.	1.1	0.74	N.D.

Chromatogram Pattern: --

Gasoline & Unidentified Hydrocarbons >C10	Unidentified Hydrocarbons C6-C12	Gasoline & Unidentified Hydrocarbons >C10	Gasoline	Gasoline & Unidentified Hydrocarbons >C10
---	----------------------------------	---	----------	---

Quality Control Data

Report Limit Multiplication Factor:	1.0	100	50	20	10	100
Date Analyzed:	5/7/99	5/7/99	5/7/99	5/7/99	5/8/99	5/7/99
Instrument Identification:	HP-5	HP-5	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 40-140%)	106	*	*	169**	118	*

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

Julianne Fegley
Julianne Fegley
Project Manager

Please Note:

- * Surrogate recovery below acceptance limits due to dilution.
- ** Surrogate recovery above acceptance limits due to coelution.



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D
1551 Industrial Road

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954
San Carlos, CA 94070-4111

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seelger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 905-0414

Sampled: May 7, 1999
Received: May 7, 1999
Reported: May 10, 1999

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 905-0414 D-1(1.5)	Sample I.D. 905-0415 PL-3(4)	Sample I.D. 905-0416 PL-1(2)	Sample I.D. 905-0417 PL-4(2)	Sample I.D. 905-0418 D-2(1.5)	Sample I.D. 905-0419 PL-2(2)
Extractable Hydrocarbons	1.0	N.D.	120	260	N.D.	36	710
Chromatogram Pattern:	--	--	Diesel & Unidentified Hydrocarbons <C14, >C18	Diesel & Unidentified Hydrocarbons <C14	--	Unidentified Hydrocarbons >C12	Diesel & Unidentified Hydrocarbons <C14

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	5/7/99	5/7/99	5/7/99	5/7/99	5/7/99	5/7/99
Date Analyzed:	5/10/99	5/10/99	5/10/99	5/10/99	5/10/99	5/10/99
Instrument Identification:	HP-3B	HP-3A	HP-3B	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

Julianne Fegley
Project Manager





Sequoia Analytical

680 Chesapeake Drive
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FAX (650) 232-9612

Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, PL-4(2)
Analysis Method: EPA 8260
Lab Number: 905-0417

Sampled: May 7, 1999
Received: May 7, 1999
Analyzed: May 13, 1999
Reported: May 17, 1999

QC Batch Number: SP0507998260EXA

Instrument ID: GC/MS-2

MTBE by EPA 8260

Analyte	Detection Limit µg/Kg	Sample Results µg/Kg
Methyl t-Butyl Ether (MTBE).....	100	270*

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50 150	115

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
* Sample contains 3-methylpentane.





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: **Tosco #3737, Emeryville**
Matrix: **Solid**

QC Sample Group: 9050414-419

Reported: **May 17, 1999**

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	MTBE
QC Batch#:	SP050799	SP050799	SP050799	SP050799	SP050799	SP050799
	8020EXA	8020EXA	8020EXA	8020EXA	8015EXA	8260EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M	EPA 8260
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	K. Grubb	N. Nelson
MS/MSD #:	9042491	9042491	9042491	9042491	BLK050799	BLK050799
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/7/99	5/7/99	5/7/99	5/7/99	5/7/99	5/7/99
Analyzed Date:	5/7/99	5/7/99	5/7/99	5/7/99	5/10/99	5/13/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B	GC/MS-2
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	15 mg/kg	2500 µg/kg
Result:	0.90	0.90	0.88	2.7	16	2900
MS % Recovery:	113	113	110	113	107	116
Dup. Result:	0.82	0.83	0.82	2.6	15	3000
MSD % Recov.:	103	104	103	108	100	120
RPD:	9.3	8.1	7.1	3.8	6.5	3.4
RPD Limit:	0-20	0-20	0-20	0-20	0-50	0-25

LCS #:	5LCS050799	5LCS050799	5LCS050799	5LCS050799	-	-
Prepared Date:	5/7/99	5/7/99	5/7/99	5/7/99	-	-
Analyzed Date:	5/7/99	5/7/99	5/7/99	5/7/99	-	-
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	-	-
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	-	-
LCS Result:	0.81	0.81	0.80	2.5	-	-
LCS % Recov.:	101	101	100	104	-	-

MS/MSD LCS Control Limits	50-150	50-150	50-150	50-150	50-150	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

Julianne Feigley
Julianne Feigley
Project Manager





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 905-0626

Sampled: May 11, 1999
Received: May 11, 1999
Reported: May 27, 1999

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D. 905-0626 PL-2(4')	Sample I.D. 905-0627 Comp S-2
Purgeable Hydrocarbons	1.0	40	42
Benzene	0.0050	0.48	N.D.
Toluene	0.0050	0.23	0.050
Ethyl Benzene	0.0050	0.27	0.12
Total Xylenes	0.0050	0.33	0.19
MTBE	0.050	0.91	N.D.

Chromatogram Pattern:

Gasoline &
Unidentified
Hydrocarbons
> C10

Gasoline &
Unidentified
Hydrocarbons
> C10

Quality Control Data

Report Limit Multiplication Factor:	10	10
Date Analyzed:	5/13/99	5/13/99
Instrument Identification:	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 40-140%)	109	73

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

Julianne Fegley
Julianne Fegley
Project Manager





Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 905-0626

Sampled: May 11, 1999
Received: May 11, 1999
Reported: May 27, 1999

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 905-0626 PL-2(4)	Sample I.D. 905-0627 Comp S-1
Extractable Hydrocarbons	1.0	530	160
Chromatogram Pattern:		Unidentified Hydrocarbons C10-C24	Unidentified Hydrocarbons >C10

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Extracted:	5/12/99	5/12/99
Date Analyzed:	5/14/99	5/14/99
Instrument Identification:	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

Julianne Fegley
Project Manager





Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil
Analysis for: Total Lead
First Sample #: 905-0627

Sampled: May 11, 1999
Received: May 11, 1999
Digested: May 13, 1999
Analyzed: May 14, 1999
Reported: May 27, 1999

LABORATORY ANALYSIS FOR: Total Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
905-0627	Comp S-2	2.5	7.8	ME0513993050MDA	MV-1

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, PL-2 (4')
Analysis Method: EPA 8260
Lab Number: 905-0626

Sampled: May 11, 1999
Received: May 11, 1999
Analyzed: Jun 3, 1999
Reported: Jun 8, 1999

QC Batch Number: SP0601998260S2A

Instrument ID: GC/MS-2

MTBE by EPA 8260

Analyte	Detection Limit µg/Kg	Sample Results µg/Kg
Methyl t-Butyl Ether (MTBE).....	100	N.D.

Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50	150
		96

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager

Please Note:

* 3-Methylpentane is present in the elution range of MTBE.





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Matrix: Solid

QC Sample Group: 9050626-627

Reported: Jun 8, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead	MTBE
QC Batch#:	SP051399	SP051399	SP051399	SP051399	SP051299	ME051399	SP060199
	8020EXA	8020EXA	8020EXA	8020EXA	8015EXB	3050MDA	8260S2A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M	EPA 7420	EPA 8260
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550	EPA 3050	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	K. Grubb	T. Le	Walnut Creek
MS/MSD #:	9050635	9050635	9050635	9050635	BLK051299B	9050653	-
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	18 mg/kg	-
Prepared Date:	5/13/99	5/13/99	5/13/99	5/13/99	5/12/99	5/13/99	-
Analyzed Date:	5/13/99	5/13/99	5/13/99	5/13/99	5/13/99	5/14/99	-
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	HP-3B	MV-1	-
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	15 mg/Kg	50 mg/kg	-
Result:	0.85	0.87	0.87	2.7	12	63	-
MS % Recovery:	106	109	109	113	80	90	-
Dup. Result:	0.91	0.93	0.94	2.8	11	69	-
MSD % Recov.:	114	116	118	117	73	102	-
RPD:	6.8	6.7	7.7	3.6	8.7	9.1	-
RPD Limit:	0-20	0-20	0-20	0-20	0-50	0-20	-

LCS #:	5LCS051399	5LCS051399	5LCS051399	5LCS051399	-	LCS051399	LCS060199
Prepared Date:	5/13/99	5/13/99	5/13/99	5/13/99	-	5/13/99	6/1/99
Analyzed Date:	5/13/99	5/13/99	5/13/99	5/13/99	-	5/14/99	6/3/99
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5	-	MV-1	GC/MS-2
Conc. Spiked:	0.80 mg/Kg	0.80 mg/Kg	0.80 mg/Kg	2.4 mg/Kg	-	50 mg/kg	2500 µg/kg
LCS Result:	0.79	0.80	0.79	2.4	-	43	1800
LCS % Recov.:	99	100	99	100	-	86	72

MS/MSD							
LCS	50-150	50-150	50-150	50-150	50-150	80-120	70-130
Control Limits							

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

Julianne Fegley
Julianne Fegley
Project Manager



Chromatogram

Sample Name : ALTON

Sample #: 9050627

Page 1 of 1

FileName : J:\HP3DATA\3BMY193.RAW

Date : 5/27/99 1:32 PM

Method :

Time of Injection: 5/13/99 9:06 AM

Start Time : 0.00 min

End Time : 33.65 min

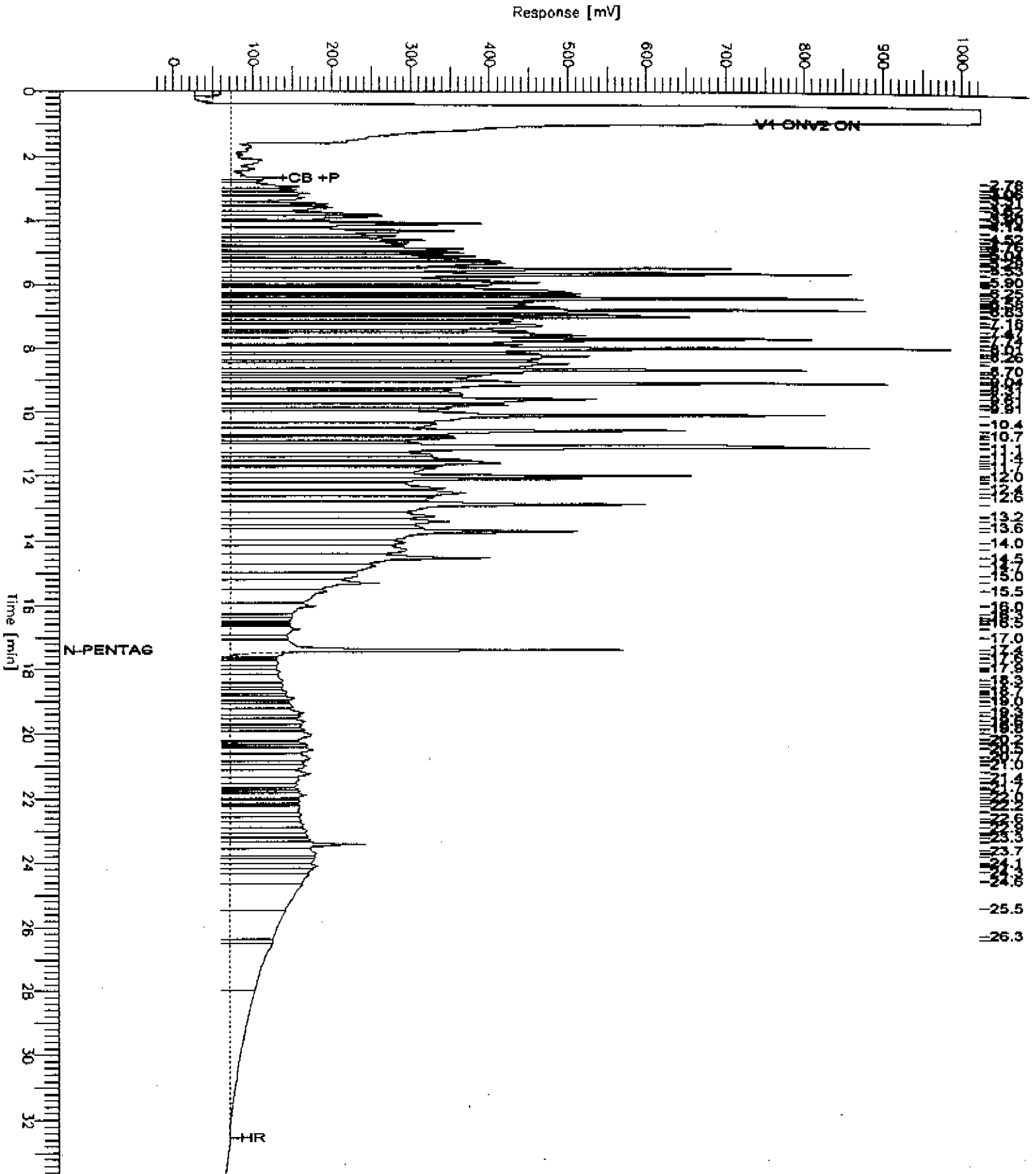
Low Point : -25.45 mV

High Point : 1024.00 mV

Scale Factor: 0.0

Plot Offset: -25 mV

Plot Scale: 1049.5 mV



Chromatogram

Sample Name : ALTON

Sample #: 9050626DIL

Page 1 of 1

FileName : J:\HP3DATA\JAMY208.raw

Date: 5/14/99 7:54 AM

Method : TPH03A

Time of Injection: 5/14/99 12:25 AM

Start Time : 0.00 min

End Time : 33.65 min

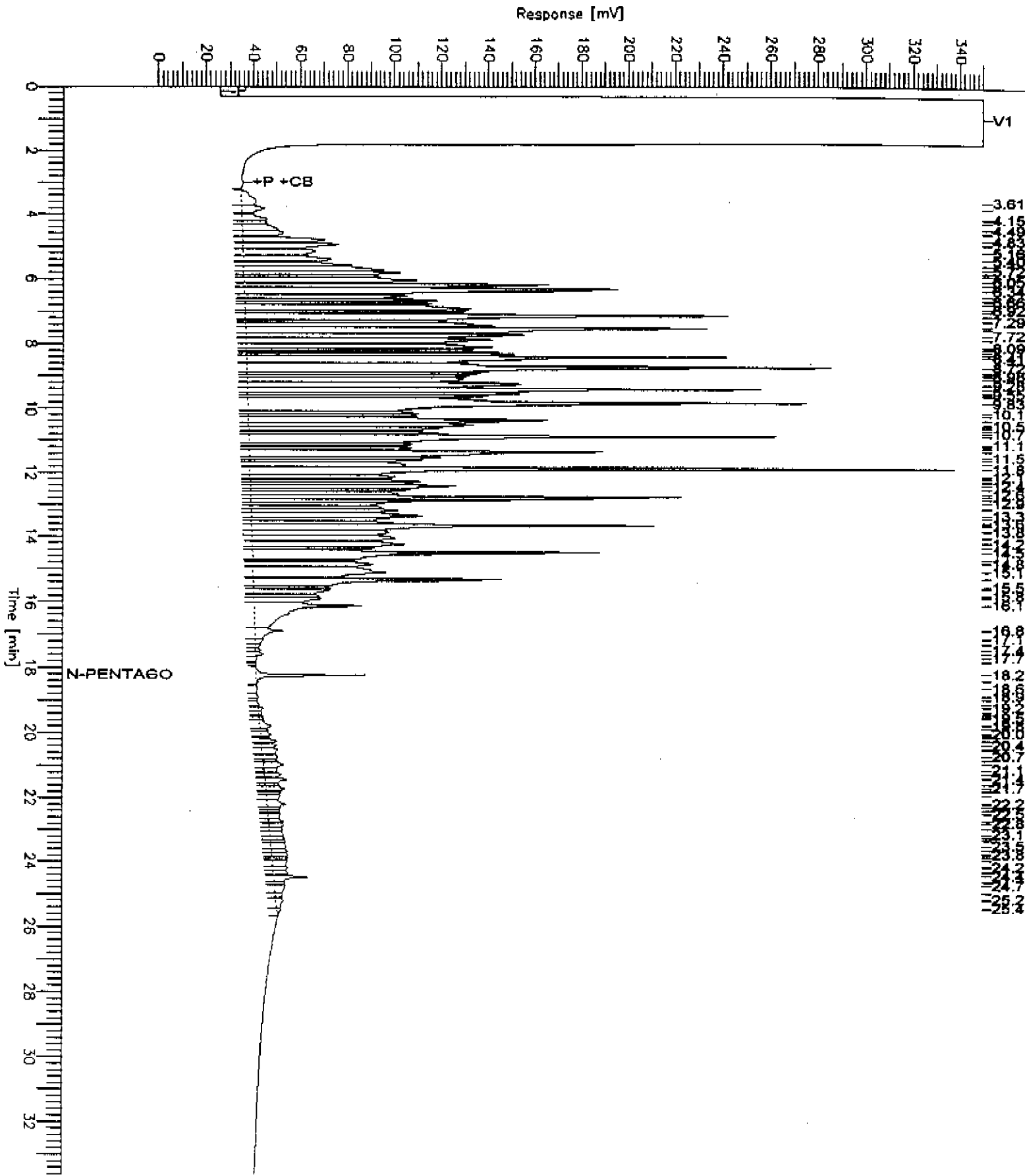
Low Point : 0.00 mV

High Point : 350.00 mV

Scale Factor: 0.0

Plot Offset: 0 mV

Plot Scale: 350.0 mV



3.61
5.14
7.14
9.14
11.14
13.14
15.14
17.71
19.14
21.14
23.14
25.14
27.14
29.14
31.14
33.65



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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Company Name: <u>Atton Geoscience</u>		Project Name: <u>Tosco 3737, Emeryville</u>	
Mailing Address: <u>30A Lindbergh Ave.</u>		Billing Address (if different): <u>Dave Dewitt 9905196</u>	
City: <u>Livermore</u>	State: <u>CA</u>	Zip Code: <u>94550</u>	<u>2000 Crow Canyon Place, Suite 400</u> <u>San Ramon, 94583</u>
Telephone: <u>(925) 606-9150</u>	FAX #: <u>(925) 606-9260</u>	P.O. #: <u>3737</u>	
Report To: <u>Tom Secliger</u>	Sampler: <u>Chris Smiga</u>	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 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Drinking Water
 Waste Water
 Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-6	BTEX	MTBE 8020*	TPH-Dist	Total Lead	Comments
1. PL-2 (4')	5-11-99/10:30	Soil	1	Tube	9050626	X	X	X	X		* If hit
2. Comp 5-2	5-11-99/11:00	Soil	4	Tube	9050627 A-D	X	X	X	X	X	Confirm w/ 8260 * Silica gel Clean-up
3.											
4.											
5.											
6.											
7.											TAT = 3 days as per Chris Smiga.
8.											
9.											5/11/99 16:00 RM
10.											

Relinquished By: <u>[Signature]</u>	Date: <u>5-11-99</u>	Time: _____	Received By: <u>[Signature]</u>	Date: <u>5/11/99</u>	Time: <u>1345</u>
Relinquished By: <u>[Signature]</u>	Date: <u>5/11/99</u>	Time: <u>1530</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>Ronald C. Jensen</u>	Date: <u>5/11/99</u>	Time: <u>15:30</u>

Pink - Client
 Yellow - Sequoia
 White - Sequoia



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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Soil
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 905-1934

Sampled: May 24, 1999
Received: May 24, 1999
Reported: May 26, 1999

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit mg/Kg	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
		905-1934 WO-1-10	905-1935 WO-4-7.5	905-1936 WO-5-7.5	905-1937 WO-6-7.5	905-1938 WO-7-7.5
Purgeable Hydrocarbons	1.0	1.4	220	470	370	86
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	0.30
Toluene	0.0050	N.D.	1.1	0.91	0.51	0.40
Ethyl Benzene	0.0050	0.0072	0.61	0.81	3.6	1.3
Total Xylenes	0.0050	0.039	0.82	1.8	1.9	6.0
MTBE	0.050	N.D.	N.D.	N.D.	N.D.	N.D.

Chromatogram Pattern:

Unidentified Hydrocarbons C6 - C12	Gasoline & Unidentified Hydrocarbons >C10	Gasoline & Unidentified Hydrocarbons >C10	Gasoline & Unidentified Hydrocarbons >C10	Gasoline & Unidentified Hydrocarbons >C10
---------------------------------------	--	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	100	50	20	50
Date Analyzed:	5/25/99	5/25/99	5/25/99	5/25/99	5/25/99
Instrument Identification:	HP-5	HP-5	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 40-140%)	109	*	*	139	*

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

Jillanne Fegley
Jillanne Fegley
Project Manager

Please Note:

* Surrogate recovery below detection limit due to dilution.





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 905-1934

Sampled: May 24, 1999
Received: May 24, 1999
Reported: May 26, 1999

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 905-1934 WO-1-10	Sample I.D. 905-1935 WO-4-7.5	Sample I.D. 905-1936 WO-5-7.5	Sample I.D. 905-1937 WO-6-7.5	Sample I.D. 905-1938 WO-7-7.5
Extractable Hydrocarbons	1.0	51	1,100	1,000	1,100	130
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons >C14	Diesel & Unidentified Hydrocarbons >C14	Diesel & Unidentified Hydrocarbons >C14	Diesel & Unidentified Hydrocarbons >C15	Diesel & Unidentified Hydrocarbons >C18

Quality Control Data

Report Limit Multiplication Factor:	1.0	10	10	10	10
Date Extracted:	5/25/99	5/24/99	5/24/99	5/24/99	5/24/99
Date Analyzed:	5/25/99	5/25/99	5/25/99	5/25/99	5/25/99
Instrument Identification:	HP-3B	HP-3B	HP-3B	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

Julianne Fegley
Julianne Fegley
Project Manager





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Soil
Analysis Method: EPA 3550/8015 Mod.
First Sample #: 905-1934

Sampled: May 24, 1999
Received: May 24, 1999
Reported: May 26, 1999

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS AS MOTOR OIL

Analyte	Reporting Limit mg/kg	Sample I.D. 905-1934 WO-1-10	Sample I.D. 905-1935 WO-4-7.5	Sample I.D. 905-1936 WO-5-7.5	Sample I.D. 905-1937 WO-6-7.5	Sample I.D. 905-1938 WO-7-7.5
Extractable Hydrocarbons	10	121	970	840	1,100	220
Chromatogram Pattern:		Motor Oil & Unidentified Hydrocarbons < C24	Motor Oil & Unidentified Hydrocarbons < C24	Motor Oil & Unidentified Hydrocarbons < C24	Motor Oil & Unidentified Hydrocarbons < C24	Motor Oil & Unidentified Hydrocarbons < C24

Quality Control Data

Report Limit Multiplication Factor:	1.0	10	10	10	10
Date Extracted:	5/25/99	5/24/99	5/24/99	5/24/99	5/24/99
Date Analyzed:	5/25/99	5/25/99	5/25/99	5/25/99	5/25/99
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3A	HP-3A

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seellger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, WO-1-10
Analysis Method: EPA 5030/8010
Lab Number: 905-1934

Sampled: May 24, 1999
Received: May 24, 1999
Analyzed: May 24, 1999
Reported: May 26, 1999

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Bromodichloromethane.....	0.025	N.D.
Bromoform.....	0.025	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.025	N.D.
Chlorobenzene.....	0.025	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.025	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.025	N.D.
1,2-Dichlorobenzene.....	0.025	N.D.
1,3-Dichlorobenzene.....	0.025	N.D.
1,4-Dichlorobenzene.....	0.025	N.D.
1,1-Dichloroethane.....	0.025	N.D.
1,2-Dichloroethane.....	0.025	N.D.
1,1-Dichloroethene.....	0.025	N.D.
cis-1,2-Dichloroethene.....	0.025	N.D.
trans-1,2-Dichloroethene.....	0.025	N.D.
1,2-Dichloropropane.....	0.025	N.D.
cis-1,3-Dichloropropene.....	0.025	N.D.
trans-1,3-Dichloropropene.....	0.025	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.025	N.D.
Tetrachloroethene.....	0.025	N.D.
1,1,1-Trichloroethane.....	0.025	N.D.
1,1,2-Trichloroethane.....	0.025	N.D.
Trichloroethene.....	0.025	N.D.
Trichlorofluoromethane.....	0.025	N.D.
Vinyl chloride.....	0.050	N.D.
Surrogates	Control Limit %	% Recovery
Chloro-2-fluorobenzene.....	50	150..... 99
4-Bromofluorobenzene.....	50	150..... 102

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seellger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, WO-4-7.5
Analysis Method: EPA 5030/8010
Lab Number: 905-1935

Sampled: May 24, 1999
Received: May 24, 1999
Analyzed: May 24, 1999
Reported: May 26, 1999

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit mg/kg	Sample Results mg/kg	
Bromodichloromethane.....	0.025	N.D.	
Bromoform.....	0.025	N.D.	
Bromomethane.....	0.050	N.D.	
Carbon tetrachloride.....	0.025	N.D.	
Chlorobenzene.....	0.025	N.D.	
Chloroethane.....	0.050	N.D.	
Chloroform.....	0.025	N.D.	
Chloromethane.....	0.050	N.D.	
Dibromochloromethane.....	0.025	N.D.	
1,2-Dichlorobenzene.....	0.025	N.D.	
1,3-Dichlorobenzene.....	0.025	N.D.	
1,4-Dichlorobenzene.....	0.025	N.D.	
1,1-Dichloroethane.....	0.025	N.D.	
1,2-Dichloroethane.....	0.025	N.D.	
1,1-Dichloroethene.....	0.025	N.D.	
cis-1,2-Dichloroethene.....	0.025	N.D.	
trans-1,2-Dichloroethene.....	0.025	N.D.	
1,2-Dichloropropane.....	0.025	N.D.	
cis-1,3-Dichloropropene.....	0.025	N.D.	
trans-1,3-Dichloropropene.....	0.025	N.D.	
Methylene chloride.....	0.25	N.D.	
1,1,1,2-Tetrachloroethane.....	0.025	N.D.	
Tetrachloroethene.....	0.025	N.D.	
1,1,1-Trichloroethane.....	0.025	N.D.	
1,1,2-Trichloroethane.....	0.025	N.D.	
Trichloroethene.....	0.025	N.D.	
Trichlorofluoromethane.....	0.025	N.D.	
Vinyl chloride.....	0.050	N.D.	
Surrogates	Control Limit %	% Recovery	
Chloro-2-fluorobenzene.....	50	150	82
4-Bromofluorobenzene.....	50	150	79

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, WO-5-7.5
Analysis Method: EPA 5030/8010
Lab Number: 905-1936

Sampled: May 24, 1999
Received: May 24, 1999
Analyzed: May 24, 1999
Reported: May 26, 1999

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Bromodichloromethane.....	0.025	N.D.
Bromoform.....	0.025	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.025	N.D.
Chlorobenzene.....	0.025	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.025	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.025	N.D.
1,2-Dichlorobenzene.....	0.025	N.D.
1,3-Dichlorobenzene.....	0.025	N.D.
1,4-Dichlorobenzene.....	0.025	N.D.
1,1-Dichloroethane.....	0.025	N.D.
1,2-Dichloroethane.....	0.025	N.D.
1,1-Dichloroethene.....	0.025	N.D.
cis-1,2-Dichloroethene.....	0.025	N.D.
trans-1,2-Dichloroethene.....	0.025	N.D.
1,2-Dichloropropane.....	0.025	N.D.
cis-1,3-Dichloropropene.....	0.025	N.D.
trans-1,3-Dichloropropene.....	0.025	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.025	N.D.
Tetrachloroethene.....	0.025	N.D.
1,1,1-Trichloroethane.....	0.025	N.D.
1,1,2-Trichloroethane.....	0.025	N.D.
Trichloroethene.....	0.025	N.D.
Trichlorofluoromethane.....	0.025	N.D.
Vinyl chloride.....	0.050	N.D.
Surrogates	Control Limit %	% Recovery
Chloro-2-fluorobenzene.....	50	150..... 87
4-Bromofluorobenzene.....	50	150..... 91

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seellger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, WO-6-7.5
Analysis Method: EPA 5030/8010
Lab Number: 905-1937

Sampled: May 24, 1999
Received: May 24, 1999
Analyzed: May 24, 1999
Reported: May 26, 1999

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Bromodichloromethane.....	0.025	N.D.
Bromoform.....	0.025	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.025	N.D.
Chlorobenzene.....	0.025	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.025	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.025	N.D.
1,2-Dichlorobenzene.....	0.025	N.D.
1,3-Dichlorobenzene.....	0.025	N.D.
1,4-Dichlorobenzene.....	0.025	N.D.
1,1-Dichloroethane.....	0.025	N.D.
1,2-Dichloroethane.....	0.025	N.D.
1,1-Dichloroethene.....	0.025	N.D.
cis-1,2-Dichloroethene.....	0.025	N.D.
trans-1,2-Dichloroethene.....	0.025	N.D.
1,2-Dichloropropane.....	0.025	N.D.
cis-1,3-Dichloropropene.....	0.025	N.D.
trans-1,3-Dichloropropene.....	0.025	N.D.
Methylene chloride.....	0.25	N.D.
1,1,1,2-Tetrachloroethane.....	0.025	N.D.
Tetrachloroethene.....	0.025	N.D.
1,1,1-Trichloroethane.....	0.025	N.D.
1,1,2-Trichloroethane.....	0.025	N.D.
Trichloroethene.....	0.025	N.D.
Trichlorofluoromethane.....	0.025	N.D.
Vinyl chloride.....	0.050	N.D.
Surrogates	Control Limit %	% Recovery
Chloro-2-fluorobenzene.....	50	59
4-Bromofluorobenzene.....	50	60

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager





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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, WO-7-7.5
Analysis Method: EPA 5030/8010
Lab Number: 905-1938

Sampled: May 24, 1999
Received: May 24, 1999
Analyzed: May 24, 1999
Reported: May 26, 1999

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Bromodichloromethane.....	0.025	N.D.
Bromoform.....	0.025	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.025	N.D.
Chlorobenzene.....	0.025	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.025	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.025	N.D.
1,2-Dichlorobenzene.....	0.025	N.D.
1,3-Dichlorobenzene.....	0.025	N.D.
1,4-Dichlorobenzene.....	0.025	N.D.
1,1-Dichloroethane.....	0.025	N.D.
1,2-Dichloroethane.....	0.025	N.D.
1,1-Dichloroethene.....	0.025	N.D.
cis-1,2-Dichloroethene.....	0.025	N.D.
trans-1,2-Dichloroethene.....	0.025	N.D.
1,2-Dichloropropane.....	0.025	N.D.
cis-1,3-Dichloropropene.....	0.025	N.D.
trans-1,3-Dichloropropene.....	0.025	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.025	N.D.
Tetrachloroethene.....	0.025	N.D.
1,1,1-Trichloroethane.....	0.025	N.D.
1,1,2-Trichloroethane.....	0.025	N.D.
Trichloroethene.....	0.025	N.D.
Trichlorofluoromethane.....	0.025	N.D.
Vinyl chloride.....	0.050	N.D.
Surrogates	Control Limit %	% Recovery
Chloro-2-fluorobenzene.....	50	150
4-Bromofluorobenzene.....	50	150

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager



Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, WO-1-10
Analysis Method: EPA 8270
Lab Number: 905-1934

Sampled: May 24, 1999
Received: May 24, 1999
Extracted: May 24, 1999
Analyzed: May 25, 1999
Reported: May 26, 1999

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Acenaphthene.....	0.10	N.D.
Acenaphthylene.....	0.10	N.D.
Aniline.....	0.10	N.D.
Anthracene.....	0.10	N.D.
Benzidine.....	2.5	N.D.
Benzoic Acid.....	0.50	N.D.
Benzo(a)anthracene.....	0.10	N.D.
Benzo(b)fluoranthene.....	0.10	N.D.
Benzo(k)fluoranthene.....	0.10	N.D.
Benzo(g,h,l)perylene.....	0.10	N.D.
Benzo(a)pyrene.....	0.10	N.D.
Benzyl alcohol.....	0.10	N.D.
Bis(2-chloroethoxy)methane.....	0.10	N.D.
Bis(2-chloroethyl)ether.....	0.10	N.D.
Bis(2-chloroisopropyl)ether.....	0.10	N.D.
Bis(2-ethylhexyl)phthalate.....	0.50	N.D.
4-Bromophenyl phenyl ether.....	0.10	N.D.
Butyl benzyl phthalate.....	0.10	N.D.
4-Chloroaniline.....	0.10	N.D.
2-Chloronaphthalene.....	0.10	N.D.
4-Chloro-3-methylphenol.....	0.10	N.D.
2-Chlorophenol.....	0.10	N.D.
4-Chlorophenyl phenyl ether.....	0.10	N.D.
Chrysene.....	0.10	N.D.
Dibenz(a,h)anthracene.....	0.10	N.D.
Dibenzofuran.....	0.10	N.D.
Di-N-butyl phthalate.....	0.50	N.D.
1,3-Dichlorobenzene.....	0.10	N.D.
1,4-Dichlorobenzene.....	0.10	N.D.
1,2-Dichlorobenzene.....	0.10	N.D.
3,3-Dichlorobenzidine.....	0.50	N.D.
2,4-Dichlorophenol.....	0.10	N.D.
Diethyl phthalate.....	0.10	N.D.
2,4-Dimethylphenol.....	0.10	N.D.
Dimethyl phthalate.....	0.10	N.D.
4,6-Dinitro-2-methylphenol.....	0.50	N.D.
2,4-Dinitrophenol.....	0.50	N.D.
2,4-Dinitrotoluene.....	0.10	N.D.
2,6-Dinitrotoluene.....	0.10	N.D.
Di-N-octyl phthalate.....	0.10	N.D.





Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Soil, WO-1-10
Analysis Method: EPA 8270
Lab Number: 905-1934

Sampled: May 24, 1999
Received: May 24, 1999
Extracted: May 24, 1999
Analyzed: May 25, 1999
Reported: May 26, 1999

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Fluoranthene.....	0.10	N.D.
Fluorene.....	0.10	N.D.
Hexachlorobenzene.....	0.10	N.D.
Hexachlorobutadiene.....	0.10	N.D.
Hexachlorocyclopentadiene.....	0.10	N.D.
Hexachloroethane.....	0.10	N.D.
Indeno(1,2,3-cd)pyrene.....	0.10	N.D.
Isophorone.....	0.10	N.D.
2-Methylnaphthalene.....	0.10	0.21
2-Methylphenol.....	0.10	N.D.
4-Methylphenol.....	0.10	N.D.
Naphthalene.....	0.10	0.11
2-Nitroaniline.....	0.50	N.D.
3-Nitroaniline.....	0.50	N.D.
4-Nitroaniline.....	0.50	N.D.
Nitrobenzene.....	0.10	N.D.
2-Nitrophenol.....	0.10	N.D.
4-Nitrophenol.....	0.50	N.D.
N-Nitrosodimethylamine.....	0.10	N.D.
N-Nitrosodiphenylamine.....	0.10	N.D.
N-Nitroso-di-N-propylamine.....	0.10	N.D.
Pentachlorophenol.....	0.50	N.D.
Phenanthrene.....	0.10	N.D.
Phenol.....	0.10	N.D.
Pyrene.....	0.10	N.D.
1,2,4-Trichlorobenzene.....	0.10	N.D.
2,4,5-Trichlorophenol.....	0.50	N.D.
2,4,6-Trichlorophenol.....	0.10	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	25	121	45
Phenol-d6.....	24	113	49
Nitrobenzene-d5.....	23	120	49
2-Fluorobiphenyl.....	30	115	59
2,4,6-Tribromophenol.....	19	122	59
4-Terphenyl-d14.....	18	137	66

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley

Julianne Fegley
Project Manager





Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Matrix: Solid

QC Sample Group: 9051934-938

Reported: May 28, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel

MS/MSD

Batch#: 9051341 9051341 9051341 9051341

Date Prepared: 5/25/99 5/25/99 5/25/99 5/25/99

Date Analyzed: 5/25/99 5/25/99 5/25/99 5/25/99

Instrument I.D.#: HP-5 HP-5 HP-5 HP-5

Conc. Spiked: 0.80 mg/kg 0.80 mg/kg 0.80 mg/kg 2.4 mg/kg

Matrix Spike

% Recovery: 76 83 86 88

Matrix Spike Duplicate %

Recovery: 80 86 91 92

Relative % Difference:

4.8 4.4 5.6 4.7

LCS Batch#: 5LCS052599 5LCS052599 5LCS052599 5LCS052599

Date Prepared: 5/25/99 5/25/99 5/25/99 5/25/99

Date Analyzed: 5/25/99 5/25/99 5/25/99 5/25/99

Instrument I.D.#: HP-5 HP-5 HP-5 HP-5

LCS %

Recovery: 90 94 94 100

% Recovery Control Limits:

50-150 50-150 50-150 50-150

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.

SEQUOIA ANALYTICAL, #1271

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Matrix: Solid

QC Sample Group: 9051934-938

Reported: May 28, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Diesel	Diesel
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8015	EPA 8015
Analyst:	N. Nelson	N. Nelson	N. Nelson	K. Grubb	K. Grubb

MS/MSD	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	Diesel	Diesel
Batch#:	9051130	9051130	9051130	9051816	9051816
Date Prepared:	5/19/99	5/19/99	5/19/99	5/24/99	5/24/99
Date Analyzed:	5/19/99	5/19/99	5/19/99	5/25/99	5/25/99
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-3A	HP-3A
Conc. Spiked:	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg	15 mg/kg	15 mg/kg
Matrix Spike % Recovery:	71	79	82	100	100
Matrix Spike Duplicate % Recovery:	76	86	93	100	100
Relative % Difference:	6.8	8.5	10	0.0	0.0

LCS Batch#:	LCS052499	LCS052499	LCS052499	LCS052499	LCS052599
Date Prepared:	5/24/99	5/24/99	5/24/99	5/24/99	5/25/99
Date Analyzed:	5/24/99	5/24/99	5/24/99	5/25/99	5/25/99
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-3A	HP-3B
LCS % Recovery:	97	91	92	60	80

% Recovery Control Limits:	65-135	70-130	70-130	50-150	50-150
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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.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
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 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: <u>Alten Geoscience</u>			Project Name: <u>Tosco H3737, 1400 Powell St, Emeryville</u>		
Mailing Address: <u>30A Lindbergh Ave</u>			Billing Address (if different): <u>attn: Dave DeWitt</u>		
City: <u>Livermore</u>	State: <u>CA</u>	Zip Code: <u>94550</u>	<u>2000 Crow Canyon Pl, Ste. 400</u>		
Telephone: <u>925-606-9150</u>		FAX #: <u>925-606-9260</u>	P.O. #: <u>San Ramon CA 9505502</u>		
Report To: <u>Tom Seeliger</u>		Sampler: <u>Chris Jensen</u>		QC Data: <input checked="" type="checkbox"/> Level II (Standard) <input type="checkbox"/> Chromatograms <input type="checkbox"/> Level III <input type="checkbox"/> Level IV	

Turnaround Standard 7 Working Days 2 Working Days
 Time: 10-15 Working Days 5 Working Days 1 Working Day
 3 Working Days ASAP

Drinking Water
 Waste Water
 Other

Analyses Requested
TPH-a
TPH-d*
TPH-mo
MTBEX
BTEX
8010
8015
8270

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-a	TPH-d*	TPH-mo	MTBEX	BTEX	8010	8015	8270	Comments
1. WO-1-9	5/24 1030am	soil	1		9051934	X	X	X	X	X	X			HOLD
2. WO-1-10	1030am		1		9051934							X		
3. WO-2-7.5	1030am		1		9051936									HOLD
4. WO-3-7.5	1030am		1		9051937									HOLD
5. WO-4-7.5	12 pm		1		9051935									
6. WO-5-7.5	12 pm		1		9051936									* silicagel clean-up
7. WO-6-7.5	12 pm		1		9051937									
8. WO-7-7.5	12 pm		1		9051938									
9.														
10.														

Relinquished By: <u>Ch J</u>	Date: <u>5/24</u>	Time: <u>2:45 pm</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>Ronald C Jensen</u>	Date: <u>5/29/99</u>	Time: <u>14:45</u>

Pink - Client

Yellow - Sequoia

White - Sequoia



Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seellger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 905-0421

Sampled: May 7, 1999
Received: May 7, 1999
Reported: May 27, 1999

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 905-0421 TCW-1
Purgeable Hydrocarbons	50	4,400
Benzene	0.50	520
Toluene	0.50	12
Ethyl Benzene	0.50	72
Total Xylenes	0.50	24
MTBE	2.5	1,300

Chromatogram Pattern: Gasoline

Quality Control Data

Report Limit Multiplication Factor:	10
Date Analyzed:	5/11/99
Instrument Identification:	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	194

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

Julianne Fegley
Project Manager



Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: Tosco #3737, Emeryville
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 905-0421

Sampled: May 7, 1999
Received: May 7, 1999
Reported: May 27, 1999

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 905-0421
Extractable Hydrocarbons	50	2600

Chromatogram Pattern: Unidentified Hydrocarbons > C9

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	5/10/99
Date Analyzed:	5/11/99
Instrument Identification:	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

Julianne Fegley
Julianne Fegley
Project Manager





Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seelger

Client Project ID: Tosco #3737, Emeryville
Sample Descript: Water
Analysis Method: EPA 8260
Lab Number: 905-0421

Sampled: May 7, 1999
Received: May 7, 1999
Analyzed: May 14, 1999
Reported: May 27, 1999

MTBE by EPA 8260

Analyte	Detection Limit $\mu\text{g/L}$	Sample Results $\mu\text{g/L}$
Methyl t-Butyl Ether (MTBE).....	2.0	540
Surrogates	Control Limit %	% Recovery
Dibromofluoromethane.....	50	150
		80

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

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager



Sequoia Analytical

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Alton Geoscience
30-A Lindbergh Ave.
Livermore, CA 94550
Attention: Tom Seeliger

Client Project ID: **Tosco #3737, Emeryville**
Matrix: **Liquid**

QC Sample Group: 905-0421

Reported: **May 28, 1999**

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	MTBE
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M.	EPA 8260
Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	K. Grubb	N. Nelson

MS/MSD Batch#:	9050014	9050014	9050014	9050014	BLK051099	9050393
Date Prepared:	5/11/99	5/11/99	5/11/99	5/11/99	5/10/99	5/13/99
Date Analyzed:	5/11/99	5/11/99	5/11/99	5/11/99	5/10/99	5/13/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L	50 µg/L
Matrix Spike % Recovery:	105	95	100	107	50	60
Matrix Spike Duplicate % Recovery:	95	90	90	98	80	62
Relative % Difference:	10	5.4	11	8.1	46	3.3

LCS Batch#:	2LCS051199	2LCS051199	2LCS051199	2LCS051199	LCS051099	LCS051299
Date Prepared:	5/11/99	5/11/99	5/11/99	5/11/99	5/10/99	5/12/99
Date Analyzed:	5/11/99	5/11/99	5/11/99	5/11/99	5/10/99	5/12/99
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B	GC/MS-2
LCS % Recovery:	100	95	105	110	84	120

% Recovery Control Limits:	70-130	70-130	70-130	70-130	60-140	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.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Julianne Fegley
Project Manager





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: <u>Atton Geoscience</u>			Project Name: <u>TJSCO 3737, Emeryville Dave Dewitt</u>		
Mailing Address: <u>30A Lindbergh Ave</u>			Billing Address (if different): <u>2,006 Crow Canyon Place,</u>		
City: <u>Livermore</u>	State: <u>CA</u>	Zip Code: <u>94550</u>	<u>Suite 400, San Ramon, CA 94583</u>		
Telephone: <u>(925) 606-9150</u>		FAX #: <u>(925) 606-9260</u>	P.O. #: <u>3737</u>	<u>9905137</u>	
Report To: <u>Tom Seeliger</u>		Sampler: <u>Chris Smiga</u>		QC Data: <input type="checkbox"/> Level II (Standard) <input type="checkbox"/> Chromatograms <input type="checkbox"/> Level III <input type="checkbox"/> Level IV	

Turnaround Standard 7 Working Days 2 Working Days Drinking Water
 Time: 10-15 Working Days 5 Working Days 1 Working Day Waste Water
 3 Working Days ASAP Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested				Comments
						TPH-6	BTEX	MTBE	TPH-D	
1. <u>TCW-1</u>	<u>5-7-99</u>	<u>H₂O</u>	<u>5</u>	<u>Voc/Ambr</u>	<u>9050421</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>Confirm MTBE w/ 8260</u>
2.					<u>A-E</u>					
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: <u>Chris Smiga</u>	Date: <u>5/7/99</u>	Time: <u>13:45</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By Lab: <u>Ronald C. Jensen</u>	Date: <u>5/7/99</u>	Time: <u>13:45</u>

Pink - Client
 Yellow - Sequoia
 White - Sequoia