

1225 Pear Avenue, Suite 110  
Mountain View, CA 94043-1431

Telephone (650) 691-0131  
Fax (650) 691-9837

STIO 780  
RESPONDED to  
12/22/99  
*(Signature)*

**Subject:** Tosco (BP) Service Station 11107  
Fiber Line Replacement Report

**Date:** December 17, 1999

**Send Via:** US Mail

**For:**

**Attn:** Mr. Amir Gholami  
Alameda County Health Care  
Services Agency

- As Requested
- Review
- Your Information
- Approval
- Signature
- Return
- Other

**Company:** 1131 Harbor Bay Parkway, 2<sup>nd</sup>  
Floor

**Address:** Alameda, CA. 94502

Tosco (BP) 11107  
Fiber Line  
Replacement

**Project No.** 006.03411

**Project Name** Tosco (BP) 11107  
Fiber Line  
Replacement

**Enclosure(s):**

**Quantity**

Letter Report

1

**COMMENTS:**

Mr. Gholami:

Enclosed is the Letter Report summarizing fiber line replacement and sampling activities performed at the above referenced service station on November 2, 1999 on behalf of Tosco Marketing Company. If you have any questions or comments, feel free to contact me at (650) 691-0131 ext. 25.

Thank you,

**Signature:** *David DeWitt*

**Cc:** Mr. David DeWitt, Tosco

**Title:** Project Manager

ENVIRONMENTAL  
PROTECTION  
99 DEC 20 PM 10:15

STID 780

December 17, 1999  
Project No. 006.03411.001

Mr. Amir Gholami  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502

**Re: Removal and Replacement of Product Lines and Dispensers**  
Tosco (BP) Service Station #11107  
18501 Hesperian Boulevard  
San Lorenzo, California

Dear Mr. Gholami:

SECOR International Incorporated (SECOR) on behalf of Tosco Marketing Company (Tosco) has prepared this letter to document soil sampling activities associated with the removal and replacement of products lines and dispensers at the Tosco (BP) Service Station #11107 located at 18501 Hesperian Boulevard in San Lorenzo, California (the Site). In addition to SECOR, these activities were observed by Mr. Robert Weston of the Alameda County Health Care Services Agency (ACHCSA).

### **Background**

The Site is located at the intersection of Hesperian Boulevard and Bockman Road in San Lorenzo, California. The Site is currently operating as a retail gasoline service station. Three gasoline underground storage tanks (USTs) and associated product lines and dispensers are present at the Site.

Seven groundwater monitoring wells were installed at the Site during previous investigations and are designated MW-1 through MW-7. The wells are currently monitored quarterly.

### **Product Line Removal and Replacement Activities**

Removal and replacement of product lines and dispensers was performed by Henderson Construction Company on November 2, 1999. Excavation and sampling activities were observed and approved by Mr. Robert Weston of the ACHCSA.

### **Soil Sampling – Product Lines and Dispensers**

On November 2, 1999, a total of four soil samples from four locations designated PD-1-1.5', PD-2-2.0', PD-3-2.0', and PD-4-2.0' were collected from beneath each of the four product dispensers, and three soil samples from three locations designated PL-1-2.5', PL-2-2.5', and PL-3-3.5' were collected from beneath the product lines (Figure 2). Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015, Modified, as well as methyl tertiary butyl ether (MTBE) and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020. Additionally, sample PD-1-1.5' was analyzed for total lead by EPA Method 6010A.

Product line and dispenser soil analytical data are presented in Table 1 and soil sample locations and analytical results are shown on Figure 1. Field and laboratory procedures are presented as Attachment A. TPHg was detected in samples PD-2-2.0' and PD-3-2.0' at respective concentrations of 4.17 milligrams per kilogram (mg/kg) and 2.02 mg/kg. MTBE was detected in samples PD-4-2.0' and PL-3-3.5' at respective concentrations of 3.31 mg/kg and 9.61 mg/kg. The detection of MTBE in sample PL-3-3.5' was confirmed by the laboratory using EPA Method 8260. The results of the confirmation analysis indicated an MTBE concentration of 14.1 mg/kg. Xylenes were detected in samples PD-1-1.5' and PD-3-2.0' at respective concentrations of 0.0287 mg/kg and 0.0116 mg/kg. No other petroleum hydrocarbons were detected at or above the laboratory reporting limits. Certified analytical reports and chain-of-custody documentation are presented as Attachment B.

### **Stockpiled Soil**

The soil stockpile generated during removal and replacement of the product lines and dispensers was sampled on November 2, 1999 and analyzed for TPHg, BTEX, and MTBE by EPA Methods 8015, Modified and 8020, respectively. Soil stockpile analytical results did not reveal significant concentrations of petroleum hydrocarbons. On November 8, 1999, with the permission of the ACHCSA, the stockpile was used as backfill.

### **Summary of Results**

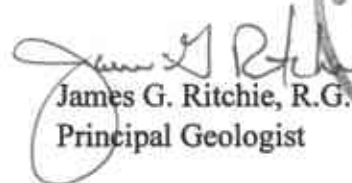
During the product line upgrade activities at the Site, minor concentrations of hydrocarbons were reported in soil samples collected from beneath the facility. Impact to the subsurface by petroleum hydrocarbons originating from the product lines and dispensers are limited and do not pose a threat to human health or the environment. Therefore, SECOR, on behalf of Tosco, requests that no further action be required of Tosco with respect to product line and dispenser replacement.


If you have any questions or comments regarding this letter, please call us at (650) 691-0131.

Sincerely,

**SECOR International Incorporated**

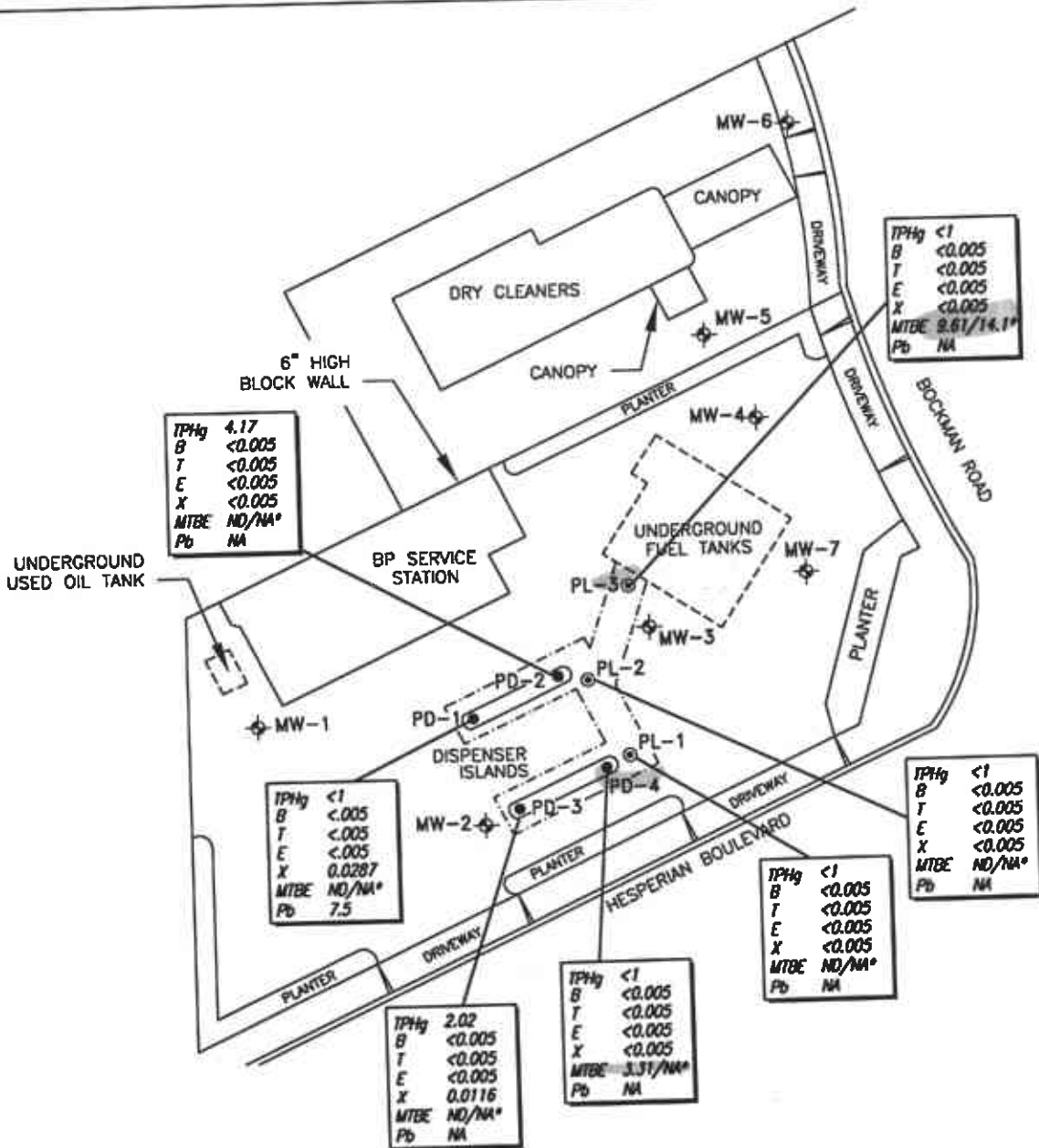
  
Robert Potter  
Project Manager

  
James G. Ritchie, R.G.  
Principal Geologist



Attachments: Table 1 - Soil Analytical Data - Product Lines and Dispensers  
Figure 1 - Site Plan with Soil Sample Locations and Analytical Results  
Attachment A - Field and Laboratory Procedures  
Attachment B - Certified Analytical Reports and Chain-of-Custody  
Documentation

cc: Mr. Dave DeWitt, Tosco Marketing Company



**LEGEND**

- ⊕ MW-3 GROUNDWATER MONITORING WELL LOCATION
- PD-2 PUMP DISPENSER SAMPLE LOCATION
- ⊙ PL-2 PRODUCT LINE SAMPLE LOCATION

TPHg — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
 B — BENZENE  
 T — TOLUENE  
 E — ETHYLBENZENE  
 X — XYLENES  
 MTBE — METHYL TERTIARY BUTYL ETHER  
 MTBE\* — CONFIRMED BY EPA METHOD 8260  
 NA — NOT ANALYZED  
 ND — NOT DETECTED ABOVE THE STATED DETECTION LIMITS  
 Pb — LEAD

TPHg	<1
B	<0.005
T	<0.005
E	<0.005
X	<0.005
MTBE	ND/NA*
Pb	NA

TPHg	4.17
B	<0.005
T	<0.005
E	<0.005
X	<0.005
MTBE	ND/NA*
Pb	NA

TPHg	<1
B	<0.005
T	<0.005
E	<0.005
X	0.0287
MTBE	ND/NA*
Pb	7.5

TPHg	2.02
B	<0.005
T	<0.005
E	<0.005
X	0.0116
MTBE	ND/NA*
Pb	NA

TPHg	<1
B	<0.005
T	<0.005
E	<0.005
X	<0.005
MTBE	3.31/NA*
Pb	NA

TPHg	<1
B	<0.005
T	<0.005
E	<0.005
X	<0.005
MTBE	ND/NA*
Pb	NA

TPHg	<1
B	<0.005
T	<0.005
E	<0.005
X	<0.005
MTBE	ND/NA*
Pb	NA

TPHg	<1
B	<0.005
T	<0.005
E	<0.005
X	<0.005
MTBE	2.61/14.1*
Pb	NA

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**SECOR**  
International Incorporated

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APPR	RP
DATE	18NOV99
JOB NO.	006.03411.001

**FIGURE 1**  
TOSCO (BP) SERVICE STATION NO.11107  
18501 HESPERIAN BOULEVARD  
SAN LORENZO, CALIFORNIA  
**SITE PLAN WITH SAMPLING LOCATIONS  
AND ANALYTICAL RESULTS**

**Table 1**  
**Soil Analytical Data**  
**Product Lines and Dispensers**

BP Service Station # 11107  
 18501 Hesperian Boulevard  
 San Lorenzo California

Sample Name	Sample Depth	Date Sampled	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	MTBE 8020/8260 (mg/kg)	Total Lead (mg/kg)
PD-1	1.5'	11/02/99	ND<1	ND<0.005	ND<0.005	ND<0.005	0.0287	ND/NA	7.5
PD-2	2.0'	11/02/99	4.17	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND/NA	NA
PD-3	2.0'	11/02/99	2.02	ND<0.005	ND<0.005	ND<0.005	0.0116	ND/NA	NA
PD-4	2.0'	11/02/99	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	3.31/NA	NA
PL-1	2.5'	11/02/99	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND/NA	NA
PL-2	2.5'	11/02/99	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND/NA	NA
PL-3	3.5'	11/02/99	ND<1	ND<0.005	ND<0.005	ND<0.005	ND<0.005	9.61/14.1	NA

TPH = Total petroleum hydrocarbons  
 MTBE = Methyl tertiary butyl ether  
 ND = Not detected above specified laboratory reporting limits  
 NA = Not analyzed  
 mg/kg = milligrams per kilogram

**ATTACHMENT A**  
**FIELD AND LABORATORY PROCEDURES**

**ATTACHMENT A**  
**FIELD AND LABORATORY PROCEDURES**

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**Soil Sampling**

Soil samples were collected by advancing 2-inch-diameter brass sample liners into undisturbed soil, or soil removed from an excavation by a backhoe bucket. Soil samples for chemical analysis were retained in the brass liners, labeled, and capped with Teflon sheets and plastic end caps. The samples were then sealed in zip-lock bags, placed on ice, and transported to the laboratory accompanied by the appropriate chain-of-custody documentation.

**Laboratory Analysis of Soil Samples**

Analysis for TPHg, BTEX compounds, and MTBE was performed by EPA Method 8015, Modified and 8020, respectively. Confirmation of the sample with the highest concentration of MTBE was performed by EPA Method 8260. Analysis of lead was performed by EPA 6010A.



**ATTACHMENT B**

**CERTIFIED ANALYTICAL REPORTS AND  
CHAIN-OF-CUSTODY DOCUMENTATION**



# Sequoia Analytical

1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612

November 18, 1999

Robert Potter  
Secor\_5  
1225 Pear Ave., Suite#110  
Mountain View, CA 94043

RE: L911051

Dear Robert Potter:

Enclosed are the results of analyses for sample(s) received by the laboratory on November 2, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson  
Project Manager

CA ELAP Certificate Number I-2360





Secor\_5  
1225 Pear Ave., Suite#110  
Mountain View, CA 94043

Project: -  
Project Number: Tosco #11107 Line pull  
Project Manager: Robert Potter

Sampled: 11/2/99  
Received: 11/2/99  
Reported: 11/18/99

**ANALYTICAL REPORT FOR L911051**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
PD-1-1.5	L911051-01	Soil	11/2/99
PD-2-2	L911051-02	Soil	11/2/99
PD-3-2	L911051-03	Soil	11/2/99
PD-4-2	L911051-04	Soil	11/2/99
PI-1-2.5	L911051-05	Soil	11/2/99
PI-2-2.5	L911051-06	Soil	11/2/99
PI-3-3.5	L911051-07	Soil	11/2/99





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 (650) 232-9600  
 FAX (650) 232-9612

Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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Sample Description: PD-1-1.5  
 Laboratory Sample Number: L911051-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9110055	11/15/99	11/15/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	0.0287	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140			%	

**Total Metals by EPA 6000/7000 Series Methods**

Lead	9110320	11/9/99	11/10/99	EPA 6010A	5.00	7.50	mg/kg	D
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 San Carlos, CA 94070-4111  
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Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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Sample Description: PD-2-2  
 Laboratory Sample Number: L911051-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>Sequoia Analytical - San Carlos</b>								
<b>Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT</b>								
Purgeable Hydrocarbons as Gasoline	9110055	11/15/99	11/16/99		1.00	4.17	mg/kg	1
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"				%	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	60.0-140				

\*Refer to end of report for text of notes and definitions.





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 San Carlos, CA 94070-4111  
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Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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Sample Description: PD-3-2  
 Laboratory Sample Number: L911051-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>Sequoia Analytical - San Carlos</b>								
<b>Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT</b>								
Purgeable Hydrocarbons as Gasoline	9110055	11/15/99	11/16/99		1.00	2.02	mg/kg	1
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	0.0116	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140			%	





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Secor 5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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Sample Description: PD-4-2  
 Laboratory Sample Number: L911051-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9110055	11/15/99	11/16/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	3.31	"	
Methyl tert-butyl ether	"	"	"					
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140			%	





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Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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Sample Description: **PI-1-2.5**  
 Laboratory Sample Number: **L911051-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>Sequoia Analytical - San Carlos</b>								
<b>Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT</b>								
Purgeable Hydrocarbons as Gasoline	9110055	11/15/99	11/16/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"	60.0-140			%	
Surrogate: a,a,a-Trifluorotoluene	"	"	"					







Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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**Sample Description:** PI-2-2.5  
**Laboratory Sample Number:** L911051-06

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9110055	11/15/99	11/16/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	60.0-140			%	





# Sequoia Analytical

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San Carlos, CA 94070-4111  
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Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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Sample Description: PI-3-3.5  
Laboratory Sample Number: L911051-07

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>Sequoia Analytical - San Carlos</b>								
<b>Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT</b>								
Purgeable Hydrocarbons as Gasoline	9110055	11/15/99	11/16/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.250	9.60	"	
<b>Methyl tert-butyl ether</b>	"	"	"	60.0-140			%	
<i>Surrogate: a,a,a-Trifluorotoluene</i>								
<b>MTBE Confirmation by EPA Method 8260A</b>								
Methyl tert-butyl ether	9110089	11/16/99	11/16/99		0.250	14.1	mg/kg	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	70.0-121		106	%	





Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9110055</b>										
<b>Blank</b>										
<b>9110055-BLK1</b>										
Purgeable Hydrocarbons as Gasoline	11/10/99			ND	mg/kg	1.00				
Benzene	"			ND	"	0.00500				
Toluene	"			ND	"	0.00500				
Ethylbenzene	"			ND	"	0.00500				
Xylenes (total)	"			ND	"	0.0500				
Methyl tert-butyl ether	"			0.202	"	60.0-140				
Surrogate: a,a,a-Trifluorotoluene	"									
<b>9110055-BLK2</b>										
Purgeable Hydrocarbons as Gasoline	11/15/99			ND	mg/kg	1.00				
Benzene	"			ND	"	0.00500				
Toluene	"			ND	"	0.00500				
Ethylbenzene	"			ND	"	0.00500				
Xylenes (total)	"			ND	"	0.0500				
Methyl tert-butyl ether	"			0.239	"	60.0-140				
Surrogate: a,a,a-Trifluorotoluene	"									
<b>LCS</b>										
<b>9110055-BS2</b>										
Purgeable Hydrocarbons as Gasoline	11/10/99	5.00		4.52	mg/kg	70.0-130	90.4			
Surrogate: a,a,a-Trifluorotoluene	"			0.164	"	60.0-140				
<b>LCS</b>										
<b>9110055-BS3</b>										
Benzene	11/15/99			0.197	mg/kg	70.0-130				
Toluene	"			0.196	"	70.0-130				
Ethylbenzene	"			0.199	"	70.0-130				
Xylenes (total)	"			0.593	"	70.0-130				
Surrogate: a,a,a-Trifluorotoluene	"			0.221	"	60.0-140				
<b>LCS</b>										
<b>9110055-BS4</b>										
Purgeable Hydrocarbons as Gasoline	11/15/99			5.13	mg/kg	70.0-130				
Surrogate: a,a,a-Trifluorotoluene	"			0.228	"	60.0-140				
<b>Matrix Spike</b>										
<b>9110055-MS1 L911076-01</b>										
Benzene	11/10/99	0.200	ND	0.171	mg/kg	60.0-140	85.5			
Toluene	"	0.200	ND	0.177	"	60.0-140	88.5			
Ethylbenzene	"	0.200	ND	0.188	"	60.0-140	94.0			
Xylenes (total)	"	0.600	ND	0.551	"	60.0-140	91.8			
Surrogate: a,a,a-Trifluorotoluene	"			0.175	"	60.0-140				

\*Refer to end of report for text of notes and definitions.





Record 5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike Dup</b>										
	<u>9110055-MSD1</u>		<u>L911076-01</u>							
Benzene	11/10/99	0.200	ND	0.165	mg/kg	60.0-140	82.5	25.0	3.57	
Toluene	"	0.200	ND	0.169	"	60.0-140	84.5	25.0	4.62	
Ethylbenzene	"	0.200	ND	0.177	"	60.0-140	88.5	25.0	6.03	
Xylenes (total)	"	0.600	ND	0.531	"	60.0-140	88.5	25.0	3.66	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"			0.175	"	60.0-140				

\*Refer to end of report for text of notes and definitions.





# Sequoia Analytical

1551 Industrial Road  
 San Carlos, CA 94070-4111  
 (650) 232-9600  
 FAX (650) 232-9612

Secor_5 1225 Pear Ave., Suite#110 Mountain View, CA 94043	Project: - Project Number: Tosco #11107 Line pull Project Manager: Robert Potter	Sampled: 11/2/99 Received: 11/2/99 Reported: 11/18/99
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**MTBE Confirmation by EPA Method 8260A/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9110089</b>										
<b>Blank</b>										
<b>9110089-BLK1</b>										
Methyl tert-butyl ether	11/16/99			ND	mg/kg	0.100				
Surrogate: 1,2-Dichloroethane-d4	"	2.50		2.74	"	70.0-121	110			
<b>9110089-BLK2</b>										
Methyl tert-butyl ether	11/16/99			ND	mg/kg	0.100				
Surrogate: 1,2-Dichloroethane-d4	"	2.50		2.97	"	70.0-121	119			
<b>LCS</b>										
<b>9110089-BS1</b>										
Methyl tert-butyl ether	11/16/99	2.50		2.59	mg/kg	70.0-130	104			
Surrogate: 1,2-Dichloroethane-d4	"	2.50		2.66	"	70.0-121	106			
<b>9110089-BS2</b>										
Methyl tert-butyl ether	11/16/99	2.50		2.73	mg/kg	70.0-130	109			
Surrogate: 1,2-Dichloroethane-d4	"	2.50		2.99	"	70.0-121	120			
<b>Matrix Spike</b>										
<b>9110089-MS1 L911105-01</b>										
Methyl tert-butyl ether	11/16/99	2.50	ND	2.64	mg/kg	60.0-140	106			
Surrogate: 1,2-Dichloroethane-d4	"	2.50		2.86	"	70.0-121	114			
<b>Matrix Spike Dup</b>										
<b>9110089-MSD1 L911105-01</b>										
Methyl tert-butyl ether	11/16/99	2.50	ND	2.60	mg/kg	60.0-140	104	25.0	1.90	
Surrogate: 1,2-Dichloroethane-d4	"	2.50		2.76	"	70.0-121	110			

\*Refer to end of report for text of notes and definitions.





Record: 5	Project: -	Sampled: 11/2/99
225 Pear Ave., Suite#110	Project Number: Tosco #11107 Line pull	Received: 11/2/99
Mountain View, CA 94043	Project Manager: Robert Potter	Reported: 11/18/99

**Total Metals by EPA 6000/7000 Series Methods/Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9110320</b>			<b>Date Prepared: 11/9/99</b>			<b>Extraction Method: EPA 3050B</b>				
<u>Blank</u>	<u>9110320-BLK1</u>									
Lead	11/10/99			ND	mg/kg	5.00				D
<u>LCS</u>	<u>9110320-BS1</u>									
Lead	11/10/99	50.0		51.3	mg/kg	80.0-120	103			D
<u>Matrix Spike</u>	<u>9110320-MS1</u>		<u>M911263-01</u>							
Lead	11/10/99	50.0	9.87	50.3	mg/kg	80.0-120	80.9			D
<u>Matrix Spike Dup</u>	<u>9110320-MSD1</u>		<u>M911263-01</u>							
Lead	11/10/99	50.0	9.87	51.7	mg/kg	80.0-120	83.7	20.0	3.40	D





Secor\_5  
1225 Pear Ave., Suite#110  
Mountain View, CA 94043

Project: -  
Project Number: Tosco #11107 Line pull  
Project Manager: Robert Potter

Sampled: 11/2/99  
Received: 11/2/99  
Reported: 11/18/99

**Notes and Definitions**

#	Note
D	Data reported from a dilution.
1	Chromatogram Pattern: Weathered Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference



# TOSCO

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100  
 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673  
 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

Consultant Company: **SECOR L911051** Project Name: **Tosco #11107 Line Pull**  
 Address: **1225 Pear Ave., Suite 110** TOSCO Engineer (required) **Dave DeWitt**  
 City: **Mtn. View** State: **CA.** Zip Code: **94043**  
 Telephone: **(650) 691-0131** FAX #: **(650) 691-9837** Site #, City, State: **11107, San Lorenzo, CA.**  
 Report To: **Robert Potter** Sampler: **Robert Potter** QC Data:  Level D (Standard)  Level C  Level B  Level A

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

Analyses Requested  
 Drinking Water  
 Waste Water  
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested						Comments
						TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	
1. PD-1-1.5'	11/2/99 11:00	S	1	Brass sleeve		✓	✓	✓		✓	✓	
2. PD-2-2'	↓	↓	↓	↓		↓	↓	↓		↓	↓	
3. PD-3-2'	↓	↓	↓	↓		↓	↓	↓		↓	↓	
4. PD-4-2'	↓	↓	↓	↓		↓	↓	↓		↓	↓	
5. PL-1-2.5'	↓	↓	↓	↓		↓	↓	↓		↓	↓	
6. PL-2-2.5'	↓	↓	↓	↓		↓	↓	↓		↓	↓	
7. PL-3-3.5'	↓	↓	↓	↓		↓	↓	↓		↓	↓	
8.												
9.												
10.	p/c Robert Potter 11/4/99 3:35 - Pb only on PD-1-1.5' w. Stumps											

Relinquished By: <b>Robert Potter</b>	Date: <b>11/2/99</b>	Time: <b>1:30 PM</b>	Received By: <b>Kevin Lee</b>	Date: <b>11/2/99</b>	Time: <b>12:40</b>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Received in Good Condition?  Yes  No Samples on Ice?  Yes  No Method of Shipment \_\_\_\_\_ Page 1 of 1

Upon receipt of report:

Analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed? \_\_\_\_\_

Issued within the requested turnaround time?  Yes  No If no, what was the turnaround time? \_\_\_\_\_

Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

Pink - Client

Yellow - Sequoia

White - Sequoia