

February 11, 2004

VIA FACSIMILE: (505) 476-3462

Mr. Wayne Price New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

#### Re: Pipeline Excavation Closure Report, D. F. Fergason Lease, U. L. H (SE/4, NE/4), Section 30, Township 18 South, Range 39 East, Lea County New Mexico

#### Dear Mr. Price:

On November 3 - 5, 2003, Larson and Associates, Inc. (LA) supervised excavation of soil from a pipeline right-of-way located on property owned by J.C. and Dona Turner in unit letter H (SE/4, NE/4), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico. The work was performed on behalf of ChevronTexaco Exploration and Production Inc. (ChevronTexaco) in accordance with a work plan that was approved by the New Mexico Oil Conservation Division (NMOCD) on October 21, 2003. The work involved removing soil from pipeline right-of-way to complete excavation of a former emergency pit that was once associated with a tank battery on the D.F. Fergason Lease. Figure 1 presents a location and topographic map.

#### Background

Between April 14, 2003 and June 26, 2003, LA supervised excavation of a closed emergency pit that had been used in connection with the tank battery at the D.F. Fergason Lease. The emergency pit was located east of the tank battery, and was excavated to the edge of a rightof-way for a crude oil pipeline owned by Navajo Pipeline Company (Navajo). Navajo moved the pipeline to remove soil from the right-of-way. Soil contamination presumed to have originated from a previous pipeline leak was encountered, and the excavation was terminated. On August 28, 2003, the NMOCD granted ChevronTexaco approval to fill the emergency pit excavation to the west edge of a pipeline right-of-way. The pipeline excavation remained open until a report was submitted to the NMOCD on October 15, 2003 ("Remediation Summary and Proposed Pipeline Excavation Work Plan, D.F. Fergason Lease, U.L. H (SE/4, NE/4), Section 30, Township 18 South, Range 39 East, Lea County, New Mexico"). ChevronTexaco proposed to excavate additional soil from the pipeline-right-of-way, without claiming responsibility for the release, to reduce the TPH concentration below 2,000 mg/kg. Specifically, the existing excavation would be extended approximately 20 feet south unless the TPH concentration was reduced below 2.000 mg/kg, at which time digging would cease. On October 21, 2003, the NMOCD approved the work plan with the condition that soil samples from areas with TPH remaining at 2,000 mg/kg be tested using the synthetic precipitation leaching procedure (SPLP), and the leachate analyzed for BTEX (sum of benzene, toluene, ethylbenzene and xylene).

#### **Current Investigation**

On November 3 and 5, 2003, additional soil was removed from the pipeline right-of-way, and hauled to the ChevronTexaco centralized waste management facility located in Section 17, Township 24 South, Range 36 East, Lea County, New Mexico. The excavation was extended



Mr. Wayne Price February 11, 2004 Page 2

about 20 feet south, and ten (10) soil samples (SS-165 through SS-174) were collected for laboratory analysis. The samples were collected using a stainless steel sample trowel, placed in clean glass sample jars, labeled, chilled in an ice chest and delivered under chain-of-custody control to Environmental Lab of Texas, Inc., located in Odessa, Texas. The laboratory analyzed the samples for TPH, BTEX and chloride. Sample SS-170, which displayed the highest TPH concentration, was analyzed for BTEX using the SPLP method (SW-846-1312). Table 1 presents a summary of the TPH, BTEX and chloride analysis. Table 2 presents the results of the SPLP analysis. Figure 2 presents a site drawing. Figure 3 presents sample locations. Appendix A presents the laboratory reports.

Referring to Table 1, no benzene was reported in the soil samples. The highest total BTEX was reported in sample SS-170 (1.832 mg/kg), and was below the maximum concentration allowed by the NMOCD (50 mg/kg). The highest TPH was also reported in soil sample SS-170 (738 mg/kg), and was well below 2,000 mg/kg. Sample SS-170 was leached using the SPLP method, and analyzed for BTEX. The laboratory reported no benzene in the sample. Toluene, ethylbenzene and xylene were reported at 0.002 milligrams per liter (mg/L), 0.010 mg/L and 0.025 mg/L, respectively. The toluene, ethylbenzene and xylene concentrations were well below the New Mexico Water Quality Control Commission (NMWQCC) human health standards of 0.75 mg/L (toluene and ethylbenzene) and 0.62 mg/L (xylene). The highest chloride (222 mg/kg) was reported in sample SS-170.

On November 10, 2003, LA submitted a summary report to the NMOCD, and requested approval to close the excavation, with the assurance that a final report would be submitted in the near future. The NMOCD granted approval, and the excavation was filled with clean soil and graded. Appendix B presents the NMOCD approval. Appendix C presents photographs of the emergency pit and pipeline areas following closure. Please call Mr. Scott Toner with ChevronTexaco at (432) 687-7318 or myself at (432) 687-0901. You may also contact us by email at stoner@chevrontexcaco.com or mark@LAenvironmental.com.

Larson and Associates, Inc.

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Mark J. Larson, CPG, CGWP President Encl.

cc: Scott Toner - ChevronTexaco Paul Sheeley – NMOCD District I Tables

**Table 1** 

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Summary of Laboratory Analyses of Soil Samples from Pipeline Excavation ChevronTexaco Exploration and Production, Inc.

D. F. Fergason Lease

UL-H (SE/4, NE/4), Section 30, Township 18 South, Range 39 East Lea County, New Mexxico

Sample	Sample	Sample	Depth	epth GRO DR(	DRO	HAT	Benzene	Total	Chloride
Date	Number	Location	(BGS)	C6-C12	>C12-C35	C6-C35	(mg/kg)	BTEX	(mg/kg)
				(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)	
03-Nov-03	SS-165	East	3	<20.0	<20.0	<40.0	<0.025	<0.125	<20
03-Nov-03		East	3	<10.0	<10.0	<20.0	<0.025	<0.125	<20
05-Nov-03		Bottom	20	21.7	77.8	99.5	<0.025	0.161	76
05-Nov-03		South Side	18	<10.0	<10.0	<20.0	<0.025	<0.125	<20
05-Nov-03		South Side	18	<10.0	<10.0	<20.0	<0.025	<0.125	<20
05-Nov-03		Bottom	20	119	619	738	<0.025	1.832	222
05-Nov-03		South Side	20	<10.0	<10.0	<20.0	<0.025	<0.125	<20
05-Nov-03		South Side	20	<10.0	<10.0	<20.0	<0.025	<0.125	<20
05-Nov-03		East Side	18	<10.0	33.8	33.8	<0.025	<0.125	53.2
05-Nov-03	SS-174	East Side	20	30.8	208	238.8	<0.025	0.049	106
			i c						

Notes: Analysis performed by Environmental Lab of Texas I, Ltd., Odessa, Texas

1. BGS: Sample depth in feet below ground surface

2. TPH: Total petroleum hydrocarbons (Sum of DRO + GRO)

3. mg/kg: Milligrams per kilogram

4. <: Below method detection limit

# Summary of SPLP Analysis of Soil Sample from Pipeline Excavation D.F. Fergason Lease **Table 2**

U. L. H(SE/4, NE/4), Section 30, Township 18 South, Range 39 East

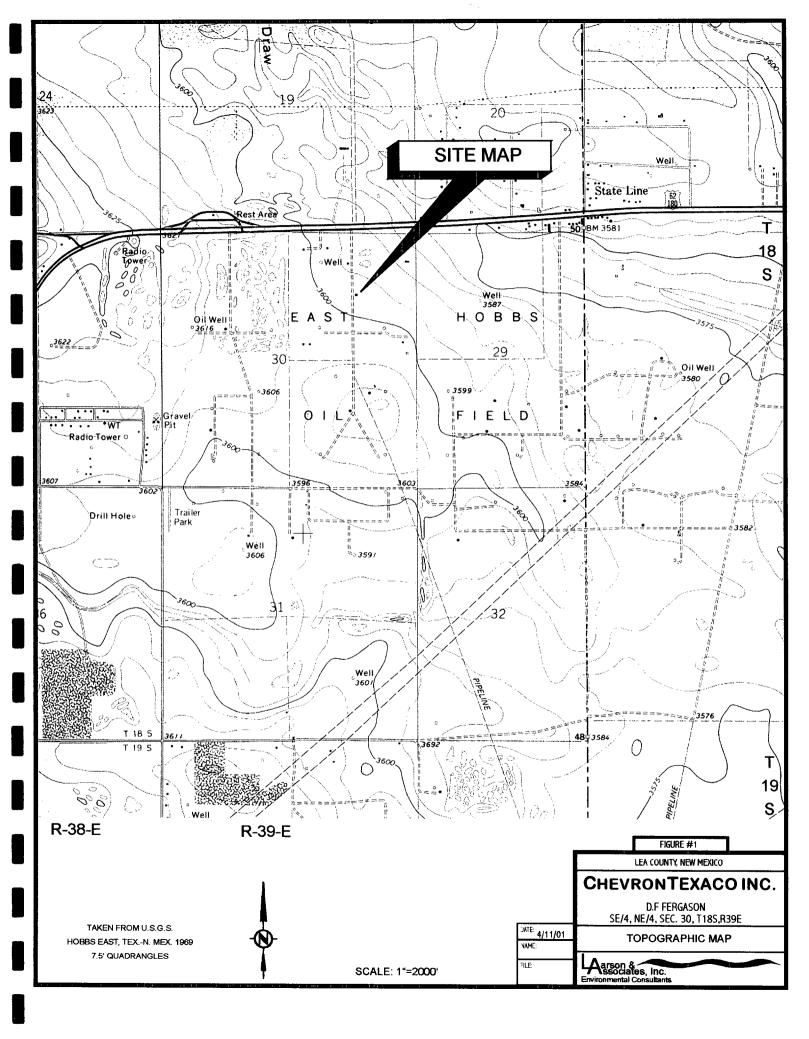
	1
Mexico	-
New	
Lea County,	
Ľ	;

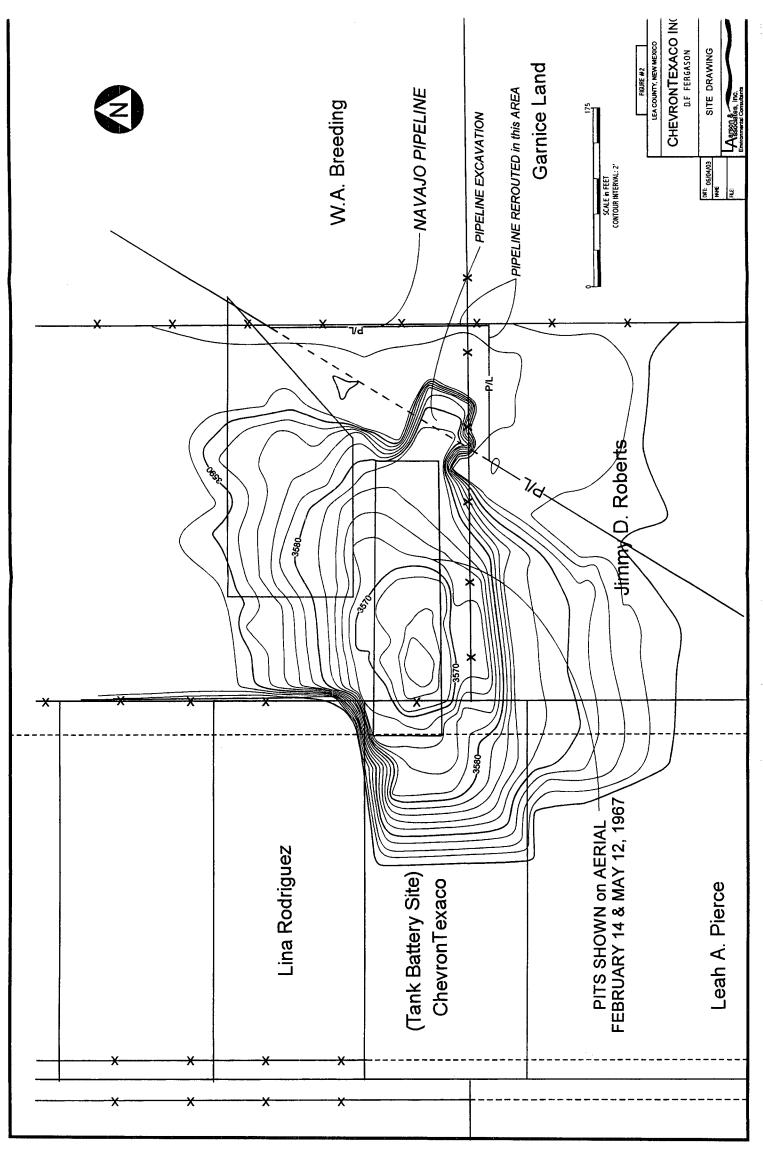
		CED TOVOE		Notor: Analysic sourcemed by Eavignmental I ab of Tavas Jac. Odassa Tavas	N discommental	formed hv Er	Anolucio nor	hoto:
0.025 0.037	0.025	0.010	0.002	<0.001	20	Bottom	05-Nov-03 SS-170	5-Nov-03
BIEA (mg/L)	Aylene (mg/L)	(BGS) (mg/L) (mg/L) (mg/L) (mg/L) (mg/L) (mg/L)	(mg/L)	mg/L)	(BGS)	Sample Location	Sample Sample Sample Date Number Location	sample Date

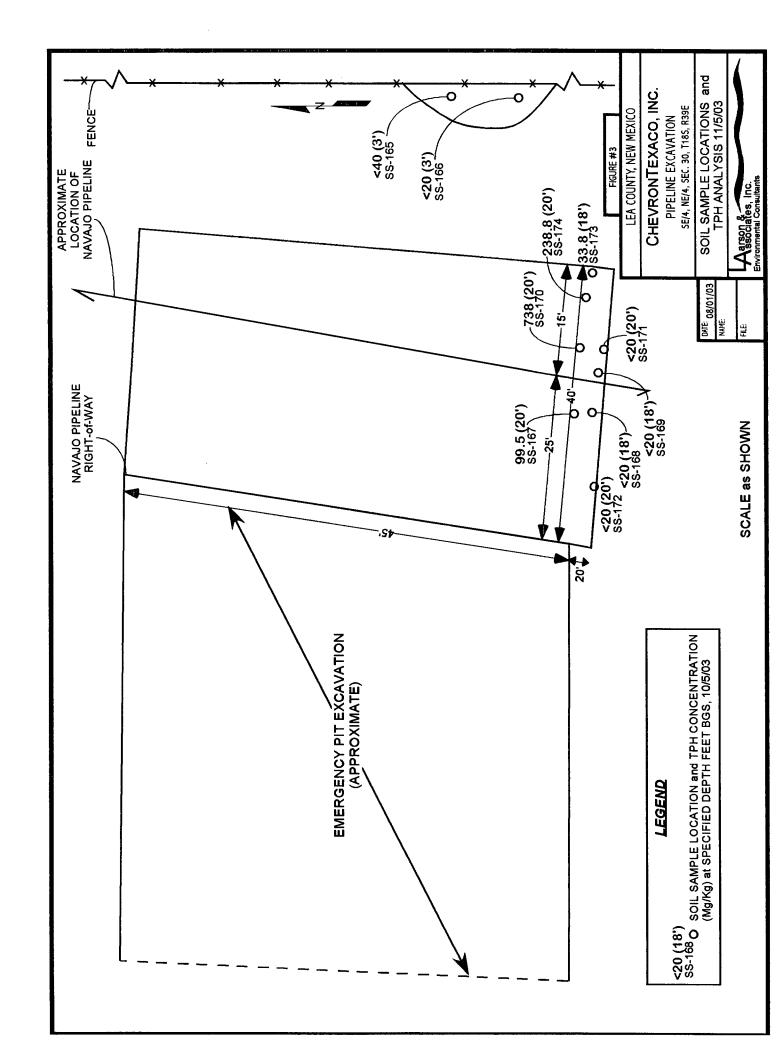
Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas Depth in feet below ground surface Milligrams per liter

Notes: 1. BGS: 2. mg/L:

Figures







Appendix A

#### Laboratory Reports

507 North Marienfeld, Suite 202 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456

# ANALYTICAL REPORT

#### **Prepared for:**

JOHN STEWART LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Chevron Texaco/ TurnerPO#:

**Order#:** G0307848

**Report Date:** 11/06/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0307848Project:0-0107Project Name:Chevron Texaco/ TurnerLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

			Date / Time	Date / Time		
Lab ID:	Sample :	<u>Matrix:</u>	Collected	Received	<u>Container</u>	Preservative
0307848-01	SS-165	SOIL	11/3/03	11/3/03 17:45	4 oz glass	None
<u>La</u>	<u>b Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No	) Ter	np: 22.5 C		
0307848-02	SS-166	SOIL	11/3/03	11/3/03 17:45	4 oz glass	None
La	<u>b Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No	) <b>T</b> ei	np: 22.5 C		

JOHN STEWART	Order#:	G0307848
LARSON AND ASSOCIATES, INC.	Project:	0-0107
P.O. BOX 50685	Project Name:	Chevron Texaco/ Turner
MIDLAND, TX 79710	Location:	None Given

Lab ID:	
Sample ID:	

0307848-01 SS-165

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 11/3/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 2	<u>Analyst</u> JLH	<u>Method</u> 8015M
	Parameter		Resi	ılt	RL	

Parameter	Result mg/kg	RL
GRO, C6-C12	<20.0	20.0
DRO, >C12-C35	<20.0	20.0
TOTAL, C6-C35	<20.0	20.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	101%	70	130
1-Chlorooctadecane	101%	70	130

8021B/5030 BTEX	K
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Method	Date	Date	Sample	Dilution		
Blank	Prepared	<u>Analyzed</u>	<u>Amount</u>	Factor	<u>Analyst</u>	Method
0007342-02		11/4/03	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)		
aaa-Toluene	97%	80	120	
Bromofluorobenzene	116%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

IOHN STEWAR LARSON AND A P.O. BOX 50685 MIDLAND, TX	SSOCIATES, INC.			Order#: Project: Project Name Location:	0-01 : Che	97848 07 vron Texaco/ Tr e Given	urner				
Lab ID: Sample ID:	0307848-02 SS-166										
		<b>_</b>		8015M							
	Method <u>Blank</u>	Date Prepared	Date Analyzed	Sample <u>Amount</u>	Dilution Factor	-	Method				
	Diank		11/3/03	1	1	JLH	.8015M				
		Parameter		Result mg/kg	;	RL					
		GRO, C6-C12		<10.0		10.0					
		DRO, >C12-C35		<10.0							
		TOTAL, C6-C35		<10.0		10.0					
		Surrog	ates	% Recovered	QC Lir	nits (%)					
		1-Chlorooc		102%	70	130					
		1-Chlorooc	tadecane	99%	70	130					
		8021B/5030 BTEX									
	Method	Date Date		Sample	-		Mathad				
	<u>_Blank</u> 0007342-02	<u>Prepared</u> 2	<u>Analyzed</u> 11/4/03	<u>Amount</u> 1	<u>ractor</u> 25	<u>Analyst</u> CK	<u>Method</u> 8021B				
		Parameter		Result mg/kg		RL					
		Benzene		<0.025		0.025					
	Toluene		< 0.025	5	0.025						
		Toluene				0.025					
		Ethylbenzene		<0.025	·						
		Ethylbenzene p/m-Xylene		<0.025 <0.025	;	0.025					
		Ethylbenzene		<0.025	;						
		Ethylbenzene p/m-Xylene	ates	<0.025 <0.025	5	0.025					
		Ethylbenzene p/m-Xylene o-Xylene	le	<0.025 <0.025 <0.025	5	0.025					

Raland K. Tuttle, Lab Director, QA Officer J I Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

JOHN STEWA LARSON AND P.O. BOX 5068 MIDLAND, T2	ASSOCIATES, INC. 5		Order# Project Project Locatio	: 0- Name: C	0307848 0107 'hevron Te one Given	xaco/ Turner		
Lab ID: Sample ID:	0307848-01 SS-165							
Test Parameters Parameter		Result	Units	Dilution <u>Factor RL</u>		Method	Date Analyzed	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20	9253	11/5/03	SB
Lab ID:	0307848-02							
Sample ID:	SS-166							
Test Paran Parameter	meters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20	9253	11/5/03	SB

Approval: <u>MCMUMU</u> <u>11-07-03</u> Raland K. Tuttk, Lab Director, QA Officer Date Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

## ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

#### 8015M

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007316-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007316-03		952	923	97.%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007316-04		952	909	95.5%	1.5%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007316-05		1000	958	95.8%	

#### ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0007342-02			<0.025		
Foluene-mg/kg		0007342-02	·····		<0.025		
Ethylbenzene-mg/kg	· · · · · ·	0007342-02			<0.025		
p/m-Xylene-mg/kg		0007342-02			<0.025		
o-Xylene-mg/kg		0007342-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307831-05	0	0.1	0.099	99.%	
Toluene-mg/kg		0307831-05	0	0.1	0.102	102.%	
Ethylbenzene-mg/kg		0307831-05	0	0.1	0.100	100.%	
p/m-Xylene-mg/kg		0307831-05	0	0.2	0.205	102.5%	
o-Xylene-mg/kg		0307831-05	0	0.1	0.101	101.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307831-05	0	0.1	0.095	95.%	4.1%
Toluene-mg/kg	_	0307831-05	0	0.1	0.097	97.%	5.%
Ethylbenzene-mg/kg		0307831-05	0	0.1	0.096	96.%	4.1%
p/m-Xylene-mg/kg		0307831-05	0	0.2	0.196	98.%	4.5%
o-Xylene-mg/kg	<u>~ · · · · · · · · · · · · · · · · · · ·</u>	0307831-05	0	0.1	0.097	97.%	4.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0007342-05		0.1	0.096	96.%	
Toluene-mg/kg		0007342-05		0.1	0.097	97.%	<u> </u>
Ethylbenzene-mg/kg		0007342-05		0.1	0.094	94.%	
p/m-Xylene-mg/kg		0007342-05		0.2	0.191	95.5%	
o-Xylene-mg/kg		0007342-05		0.1	0.095	95.%	

# ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

#### **Test Parameters**

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	a de la comuna	0007344-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307842-01	5280	500	5740	92.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	<u> </u>	0307842-01	5280	500	5780	100.%	0.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	<u></u>	0007344-04		5000	4960	99.2%	

CLIENT NAME: SITE MANAGER:	PARAMETERS/METHOD NUMBER	CHAIN-OF-CUSTODY RECORD
0	и	A arson & Associates, Inc. Fax: 432-687-0456
C = C/C / $C = C/C/C$	1.516	Environmental Consultants 432-687-0901 507 N. Marienfeld, Ste. 202 • Midland, TX 79701
1105 3212M 31111	С С П И П И И И И И И И И И И И И И И И	LAB. I.D. REMARKS NUMBER I.E., FILTERED, UNFILTERED, (LAB USE ONLY) GRAB COMPOSITE]
7	1 44-4	0307848-01 AD
11/2 - 55-166	1	
SAMPLED BY: [Signature] DATE: 1/ S RELINQUISH	RELINQUISHED BY: (Signature) DATE:	RECEIVED BY: (Signature) DATE:
RECEIVED	By Signature) . DATE: 11/3	SAMPLE SHIPPED BY: (Circle)
1. Almal Stored TIME	NUX-	L FEDEX BUS AIRBILL #: HAND DEI NEBED LIPS OTHER:
CONMENTS		/ING LAB
RECEIVING LABORATORY:	RECEIVED BY: (Signature)	
CITY:STATE:ZIP:	DATE:TIME:	•
IDITION WHEN RECEIVED:	LA CONTACT PERSON:	SAMPLE TYPE: 2.5°C 402)ar

# ANALYTICAL REPORT

#### **Prepared for:**

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Texaco/ TurnerPO#:G0307861

**Report Date:** 11/06/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0307861Project:0-0107Project Name:Texaco/TurnerLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Time	Da	ate / Time		
<u>Lab ID:</u>	Sample :	Matrix:		Collected	<u> </u>	Received	Container	<u>Preservative</u>
0307861-01	SS-167	SOIL		11/5/03 10:59		11/5/03 16:10	4 oz glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Te	mp:	4.0 C		
	8015M							
•	8021B/5030 BTEX							
	Chloride							
0307861-02	SS-168	SOIL		11/5/03 11:02		11/5/03 16:10	4 oz glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Te	mp:	4.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							
0307861-03	SS-169	SOIL		11/5/03		11/5/03	4 oz glass	Ice
				11:04		16:10		
La	<u>b Testing:</u>	Rejected:	No	Te	mp:	4.0 C		
-	8015M							
	8021B/5030 BTEX							
	Chloride							
0307861-04	SS-170	SOIL		11/5/03		11/5/03	4 oz glass	Ice
				11:06		16:10		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Te	mp:	4.0 C		
•	8015M							
	8021B/5030 BTEX							
	Chloride							
0307861-05	SS-171	SOIL		11/5/03 11:25		11/5/03 16:10	4 oz glass	Ice
<u> </u>	<u>ıb Testing:</u>	Rejected:	No	Te	emp:	4.0 C		
	8015M							
	8021B/5030 BTEX							
-	Chloride			······································				
0307861-06	SS-172	SOIL		11/5/03 11:28		11/5/03 16:10	4 oz glass	Ice
<u>La</u>	<u>ab Testing:</u> 8015M	Rejected:	No	Te	emp:	4.0 C		

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0307861Project:0-0107Project Name:Texaco/TurnerLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u> 8021B/5030 BTEX Chloride	<u>Matrix:</u>		Date / Time <u>Collected</u>	Date / Time <u>Received</u>	e <u>Container</u>	Preservative
0307861-07	SS-173	SOIL		11/5/03 12:30	11/5/03 16:10	4 oz glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Te	mp: 4.0 C		
	8015M						
	8021B/5030 BTEX						
	Chloride						
0307861-08	SS-174	SOIL		11/5/03	11/5/03	4 oz glass	Ice
				12:31	16:10		
La	<u>b Testing:</u>	Rejected:	No	Te	mp: 4.0 C		
	8015M						
	8021B/5030 BTEX						
	Chloride						

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0307861Project:0-0107Project Name:Texaco/TurnerLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Time		ate / Time		
Lab ID:	Sample :	Matrix:		Collected		Received	Container	<u>Preservativ</u>
0307861-01	SS-167	SOIL		11/5/03 10:59		11/5/03 16:10	4 oz glass	Ice
Lab	<u>Testing:</u>	Rejected:	No	1	Гетр:	4.0 C		
	8015M							
	8021B/5030 BTEX							
1	Chloride							
0307861-02	SS-168	SOIL		11/5/03 11:02		11/5/03 16:10	4 oz glass	Ice
Lat	b Testing:	Rejected:	No	1	Гетр:	4.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							
0307861-03	SS-169	SOIL		11/5/03 11:04		11/5/03 16:10	4 oz glass	Ice
Lat	b Testing:	Rejected:	No	-	Temp:	4.0 C		
	8015M							
1	8021B/5030 BTEX							
	Chloride							
0307861-04	SS-170	SOIL		11/5/03 11:06		11/5/03 16:10	4 oz glass	Ice
Lat	<u>b Testing:</u>	Rejected:	No	•	Temp:	4.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							
0307861-05	SS-171	SOIL		11/5/03 11:25		11/5/03 16:10	4 oz glass	Ice
<u>La</u>	<u>b Testing:</u>	Rejected:	No		Temp:	4.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							
0307861-06	SS-172	SOIL		11/5/03 11:28		11/5/03 16:10	4 oz glass	Ice
<u>La</u>	<u>b Testing:</u>	Rejected:	No		Temp:	4.0 C		
	8015M							

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LARSON AND ASSOCIATES, INC. P.O. BOX 50685

MIDLAND, TX 79710

915-687-0456

Order#:G0307861Project:0-0107Project Name:Texaco/TurnerLocation:None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	<u>Sample :</u> 8021B/5030 BTEX Chloride	<u>Matrix:</u>		Date / Time <u>Collected</u>		te / Time Received	Container	Preservative
0307861-07	SS-173	SOIL		11/5/03 12:30		11/5/03 16:10	4 oz glass	Ice
La	<u>b Testing:</u>	Rejected:	No	T	emp:	4.0 C		
	8015M							
5	8021B/5030 BTEX							
<b></b>	Chloride			<u></u>				
0307861-08	SS-174	SOIL		11/5/03 12:31		11/5/03 16:10	4 oz giass	Ice
La	<u>b Testing:</u>	Rejected:	No		emp:	4.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							

CINDY CRAIN LARSON AND ASSOCIATES, INC.	Order#: Project:	G0307861 0-0107
P.O. BOX 50685	Project Name:	Texaco/ Turner
MIDLAND, TX 79710	Location:	None Given

Lab ID:	
Sample ID:	

0307861-01 SS-167

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 11/5/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> JLH	Method 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	21.7	10.0
DRO, >C12-C35	77.8	10.0
TOTAL, C6-C35	99.5	10.0

97%	70	130
103%	70	130

		0U21D	JUJU DI LA	4		
Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
DIANK	Treparcu	<u>Hindry beu</u>	<u>i kiitount</u>	Inclus	ratal you	Internou
0007342-02		11/5/03	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	0.040	0.025
p/m-Xylene	0.121	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)		
aaa-Toluene	109%	80	120	
Bromofluorobenzene	120%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

CINDY CRAIN LARSON AND ASSO P.O. BOX 50685 MIDLAND, TX 7971				Order#: Project: Project Name Location:	0-0 : Те	307861 107 xaco/ Turner ne Given	
Lab ID: 0	307861-02 S-168						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 11/5/03	Sample <u>Amount</u> 1	Diluti <u>Facto</u> 1		<u>Method</u> 8015M
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	]
		Surroga		% Recovered	· · · · · · · · · · · · · · · · · · ·	imits (%)	
		1-Chlorooc 1-Chlorooc		86% 94%	70 70	130 130	
		L		B/5030 BTEX	·	- <u>L</u>	
	Method	Date	Date	Sample	Diluti	on	
	Blank	Prepared	Analyzed	Amount	<u>Fact</u>		Method
	0007342-02	2	11/5/03	1	25	СК	8021B
		Parameter		Resul mg/kg		RL	
		Benzene		< 0.02	5	0.025	]
		Toluene		<0.02		0.025	4
		Ethylbenzene		<0.02		0.025	4
		p/m-Xylene		<0.02		0.025	4
		o-Xylene		<0.02	<b>b</b>	0.025	_
		Surrog	ates	% Recovered	QCI	imits (%)	
		aaa-Toluer	le	100%	80	120	
		Bromofluor		120%	80	120	

CINDY CRAIN		Order#:	G0307861	
LARSON AND ASSOCIATES, INC.		Project: 0	0-0107	
P.O. BOX 50685		Project Name:	Texaco/ Turner	
MIDLAND, TX	79710	Location:	None Given	
Lab ID:	0307861-03			
Sample ID:	SS-169			

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 11/5/03	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
		11/3/03	I	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	94%	70	130
1-Chlorooctadecane	130%	70	130

		8021B	8/5030 BTE2	X		
Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0007342-02		11/5/03	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	108%	80	120
Bromofluorobenzene	120%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

CINDY CRAIN LARSON AND ASSOCIATES, INC.	Order#: Project:	G0307861 0-0107
P.O. BOX 50685	Project Name:	Texaco/ Turner
MIDLAND, TX 79710	Location:	None Given

Lab ID:	
Sample ID:	

0307861-04 SS-170

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		11/5/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	119	10.0
DRO, >C12-C35	619	10.0
TOTAL, C6-C35	738	10.0

1		mits (%)
98%	70	130
110%	70 130	

		0 <i>0411</i>	JUJU DI LA	1		
Method	Date	Date	Sample	Dilution		
<u>Blank</u>	Prepared	<b>Analyzed</b>	<u>Amount</u>	Factor	<u>Analyst</u>	Method
0007342-02		11/5/03	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.025
Toluene	0.146	0.025
Ethylbenzene	0.507	0.025
p/m-Xylene	0.807	0.025
o-Xylene	0.372	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	115%	80	120
Bromofluorobenzene	132%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

CINDY CRAIN LARSON AND AS P.O. BOX 50685 MIDLAND, TX 7				Order#: Project: Project Name Location:	0-01 : Tex	07861 07 aco/ Turner e Given	
Lab ID:	0307861-05						
Sample ID:	SS-171						
				8015M			
	Method	Date	Date	Sample	Dilutio		<b>M</b> - 4h - J
	<u>Blank</u>	Prepared	<u>Analyzed</u> 11/5/03	<u>Amount</u> 1	Factor 1	<u>Analyst</u> JLH	Method 8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		Surroga	tes	% Recovered	QC Li	mits (%)	
		1-Chlorooct		94%	70	130	
		1-Chlorooct	adecane	105%	70	130	
		_		/5030 BTEX			
	Method Blank	Date Prepared	Date <u>Analyzed</u>	Sample A <u>mo</u> unt	Dilutio Factor		Method
	0007342-02		11/5/03	1	25	<u>CK</u>	8021B
	0007342-02			-			00212
		Parameter		Result mg/kg	1	RL	
						0.025	
		Benzene		<0.025	5	0.025	
		Toluene	· · · · · · · · · · · · · · · · · · ·	<0.025	5	0.025	
		Toluene Ethylbenzene		<0.025 <0.025	5	0.025 0.025	
		Toluene Ethylbenzene p/m-Xylene	· · · · · · · · · · · · · · · · · · ·	<0.025 <0.025 <0.025	5 5 5	0.025 0.025 0.025	
		Toluene Ethylbenzene		<0.025 <0.025	5 5 5	0.025 0.025	
		Toluene Ethylbenzene p/m-Xylene	Ites	<0.025 <0.025 <0.025	5 5 5 5 5	0.025 0.025 0.025	
		Toluene Ethylbenzene p/m-Xylene o-Xylene		<0.025 <0.025 <0.025 <0.025	5 5 5 5 5	0.025 0.025 0.025 0.025	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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CINDY CRAIN	Order#:	G0307861
LARSON AND ASSOCIATES, INC.	Project:	0-0107
P.O. BOX 50685	Project Name:	Texaco/ Turner
MIDLAND, TX 79710	Location:	None Given

Lab ID:	
Sample 1D:	

0307861-06 SS-172

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 11/5/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> JLH	Method 8015M
	Parameter		Resu mg/k	1	RL	
	GRO, C6-C12		<10.0	)	10.0	

<10.0

70

10.0

130

TAL, C6-C35	<10.0		10.0
Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	93%	70	130

802	1 B/5	030	BTEX
00.		0.00	

101%

Method	Date	Date	Sample	Dilution		
Blank	Prepared	<b>Analyzed</b>	<u>Amount</u>	Factor	<u>Analyst</u>	Method
0007342-02		11/5/03	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	< 0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)			
aaa-Toluene	104%	80	120		
Bromofluorobenzene	115%	80	120		

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

DRO, >C12-C35

1-Chlorooctadecane

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CINDY CRAIN LARSON AND ASSO P.O. BOX 50685 MIDLAND, TX 797				Order#: Project: Project Name Location:	0-01 : Tex	807861 107 kaco/ Turner ne Given	
	0307861-07 SS-173						
-				8015M			
	Method	Date	Date	Sample	Dilutio	n	
	Blank	Prepared	<u>Analyzed</u>	Amount	Facto	<u>r Analyst</u>	Method
			11/5/03	1	1	JLH	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		33.8		10.0	
		TOTAL, C6-C35		33.8		10.0	
		Surroga		% Recovered	_	mits (%)	
		1-Chlorooct		89%	70 70	130	
		1-Chlorooct		99%		130	
		<b>.</b>		B/5030 BTEX			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilutio Facto		Method
	0007342-02		11/5/03	1	25	<u>CK</u>	8021B
	0007342-02						
		Parameter		Result mg/kg		RL	
		Benzene		<0.025	5	0.025	
		Toluene		<0.025	5	0.025	
		Ethylbenzene		<0.025	5	0.025	
		p/m-Xylene		<0.025		0.025	
		o-Xylene		<0.025	5	0.025	
		Surroga	ites	% Recovered	OC 1	imits (%)	
		aaa-Toluen		104%	80	120	
		Bromofluoro		120%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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CINDY CRAIN LARSON AND ASSO P.O. BOX 50685 MIDLAND, TX 797				Order#: Project: Project Name: Location:	0-01 Tex	07861 107 saco/ Turner e Given	
	0307861-08 SS-174						
				8015M			
	Method	Date	Date		Dilutio	'n	
	Blank	Prepared	Analyzed	Amount	Facto	<u>Analyst</u>	Method
			11/5/03	1	1	JLH	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		30.8		10.0	
		DRO, >C12-C35		208		10.0	
		TOTAL, C6-C35		238.8		10.0	
			<u> </u>				
		Surroga		% Recovered	_	mits (%)	
		1-Chlorooct		90%	70	130	
		1-Chlorooct		102%	70	130	
			8021E	<b>B/5030 BTEX</b>			
	Method	Date	Date	Sample	Dilutio		
	<u>Blank</u>	Prepared	<u>Analyzed</u> 11/5/03	Amount	<u>Facto</u>		Method
	0007342-02		11/5/03	1	25	СК	8021B
		Parameter		Result mg/kg		RL	
		Benzene	······································	<0.025		0.025	
		Toluene		<0.025		0.025	
		Ethylbenzene		<0.025		0.025	
		p/m-Xylene		0.049		0.025	
		o-Xylene		<0.025		0.025	
		Surroga	ites	% Recovered	QC L	imits (%)	
		aaa-Toluen		89%	80	120	
		Bromofluor		116%	80	120	

Approval: Kalandk 140 11-06-03 Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

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CINDY CRAIN LARSON AND P.O. BOX 5068 MIDLAND, TX	ASSOCIATES, INC. 5		Order# Project Project Locatio	: Name:	G0307861 0-0107 Texaco/ Turi None Given	ner		
Lab ID: Sample ID:	0307861-01 SS-167							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilution <u>Factor</u>	-	<u>Method</u>	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		76.0	mg/kg	1	20	9253	11/6/03	SB
Lab ID: Sample ID:	0307861-02 SS-168							
Test Paran Parameter	neters	<u>Result</u>	<u>Units</u>	Dilution <u>Factor</u>		Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20	9253	11/6/03	SB
Lab ID: Sample ID:	0307861-03 SS-169			<u> </u>				
Test Paran Parameter	neters	<u>Result</u>	<u>Units</u>	Dilutio <u>Facto</u>		Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20	9253	11/6/03	SB
Lab ID: Sample ID:	0307861-04 SS-170					<u></u>		
<i>Test Paran</i> Parameter	neters	Result	Units	Dilutio <u>Facto</u>		Method	Date Analyzed	Analyst
Chloride		222	mg/kg	1	20	9253	11/6/03	SB
Lab ID: Sample ID:	0307861-05 SS-171							
Test Paran Parameter	meters	Result	Units	Dilutio <u>Facto</u>		Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20	9253	11/6/03	SB
Lab ID: Sample ID:	0307861-06 SS-172			<u>, , , , , , , , , , , , , , , , , , , </u>				
Test Paran Parameter	meters	<u>Result</u>	Units	Dilutio <u>Facto</u>		Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20	9253	11/6/03	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710			Order#: Project: Project Name: Location:		307861 )107 exaco/ Tur one Given	ner		
Lab ID: Sample ID:	0307861-07 SS-173							
Test Parameters Parameter		Dilution <u>Result Units Factor</u>		Dilution <u>Factor</u>				<u>Analyst</u>
Chloride		53.2	mg/kg	1	20	9253	11/6/03	SB
Lab ID: Sample ID:	0307861-08 SS-174							
Test Paran Parameter	neters	<u>Result</u>	<u>Units</u>	Dilution <u>Factor</u>	<u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>

Approval: Kalandk 1von 11-06-03 Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

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# ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

#### 8015M

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007348-02	· · · · · · · · · · · · · · · · · · ·		<10.0	1	
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007348-03		952	895	94.%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007348-04		952	828	87.%	7.8%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007348-05		1000	856	85.6%	

#### ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX or

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	*	0007342-02			<0.025	<b></b>	
Toluene-mg/kg		0007342-02		······································	<0.025		
Ethylbenzene-mg/kg		0007342-02			<0.025		
p/m-Xylene-mg/kg		0007342-02			<0.025		
o-Xylene-mg/kg		0007342-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307831-05	0	0.1	0.099	99.%	
Toluene-mg/kg		0307831-05	0	0.1	0.102	102.%	
Ethylbenzene-mg/kg		0307831-05	0	0.1	0.100	100.%	
p/m-Xylene-mg/kg		0307831-05	0	0.2	0.205	102.5%	
o-Xylene-mg/kg		0307831-05	0	0.1	0.101	101.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307831-05	0	0.1	0.095	95.%	4.1%
Toluene-mg/kg		0307831-05	0	0.1	0.097	97.%	5.%
Ethylbenzene-mg/kg	<u> </u>	0307831-05	0	0.1	0.096	96.%	4.1%
p/m-Xylene-mg/kg	·····	0307831-05	0	0.2	0.196	98.%	4.5%
o-Xylene-mg/kg		0307831-05	0	0.1	0.097	97.%	4.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0007342-05		0.1	0.096	96.%	
Toluene-mg/kg	,	0007342-05		0.1	0.097	97.%	
Ethylbenzene-mg/kg		0007342-05		0.1	0.094	94.%	
p/m-Xylene-mg/kg		0007342-05		0.2	0.191	95.5%	
o-Xylene-mg/kg		0007342-05		0.1	0.095	95.%	

# ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

#### **Test Parameters**

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0007345-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307861-01	76	500	582	101.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307861-01	76	500	557	96.2%	4.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0007345-04		5000	4960	99.2%	

## CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

#### **Prepared for:**

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0307861

Project: Texaco/ Turner

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-167	0307861-01	SOIL	11/05/2003	11/05/2003
SS-168	0307861-02	SOIL	11/05/2003	11/05/2003
SS-169	0307861-03	SOIL	11/05/2003	11/05/2003
SS-170	0307861-04	SOIL	11/05/2003	11/05/2003
SS-171	0307861-05	SOIL	11/05/2003	11/05/2003
SS-172	0307861-06	SOIL	11/05/2003	11/05/2003
SS-173	0307861-07	SOIL	11/05/2003	11/05/2003
SS-174	0307861-08	SOIL	11/05/2003	11/05/2003

## Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference. (0307861-04)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Kalandk Ju

Date: 11-06-03

Environmental Lab of Texas I, Ltd.

Page 1

CINDY CRAIN	Order#: G0307861	
LARSON AND ASSOCIATES, INC.	Project: 0-0107	
P.O. BOX 50685	Project Name: Texaco/ Turner	
MIDLAND, TX 79710	Location: None Given	

Lab ID: Sample ID:

0307861-04 SS-170

		SPLP B1	TEX 8021B,	1312		
Method	Date	Date A polygod	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	<b>Factor</b>	<u>Analyst</u>	Method
0007357-02	11/6/03	11/7/03	1	1	СК	1312/8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	0.002	0.001
Ethylbenzene	0.010	0.001
p/m-Xylene	0.017	0.001
o-Xylene	0.008	0.001

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	112%	80	120
Bromofluorobenzene	99%	80	120

Date

Approval: Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

#### ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT SPLP BTEX 8021B,1312 or

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L	0007357-02			<0.001		
Toluene-mg/L	0007357-02			<0.001	t	
Ethylbenzene-mg/L	0007357-02			<0.001		
p/m-Xylene-mg/L	0007357-02			<0.001		
o-Xylene-mg/L	0007357-02			<0.001		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L	0007357-03		0.1	0.085	85.%	
Toluene-mg/L	0007357-03	·····	0.1	0.085	85.%	
Ethylbenzene-mg/L	0007357-03		0.1	0.082	82.%	
p/m-Xylene-mg/L	0007357-03		0.2	0.164	82.%	
o-Xylene-mg/L	0007357-03		0.1	0.085	85.%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L	0007357-04		0.1	0.088	88.%	3.5%
Toluene-mg/L	0007357-04		0.1	0.087	87.%	2.3%
Ethylbenzene-mg/L	0007357-04		0.1	0.084	84.%	2.4%
p/m-Xylene-mg/L	0007357-04		0.2	0.169	84.5%	3.%
o-Xylene-mg/L	0007357-04		0.1	0.089	89.%	4.6%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L	0007357-05		0.1	0.088	88.%	
Toluene-mg/L	0007357-05		0.1	0.088	88.%	<u> </u>
Ethylbenzene-mg/L	0007357-05		0.1	0.085	85.%	
p/m-Xylene-mg/L	0007357-05		0.2	0.173	86.5%	
o-Xylene-mg/L	0007357-05		0.1	0.091	91.%	

CLIENT NAME:			SITE MANAGER:	PARAN	<b>NETERS/ME</b>	PARAMETERS/METHOD NUMBER	CHAIN-OF-CUSIODY	ODY RECORD
· leraco			C. Crain					
PROJECT NO .:			PROJECT NAME:	И			Accordes. Inc. For	Eax: 915-687-0456
010-010	107		Turner	~08 1 SI		L 7 1M 0 ( 7/5	Environmental Consultants	915-687-0901
PAGE / OF	/	LAB.	LAB. PO #	3 X. 108	-	151, 2/0 MI	arienfeld, Ste.	202 • Midland, TX 79701
JUNI JUNI	201 NATER	OTHER	SAMPLE IDENTIFICATION	FLS HUL NUWBEB	747	IM IIM	LAB. I.D. NUMBER (I.E., FILT PRESERVE	Remarks (I.E., Filtered, Unfiltered, Preserved, Unpreserved, Grab, composite)
3 1059		IX -	55-167	- 7 7			0307861-01	
		$\overline{\lambda}$	55-168	77	7		20-	
104	7	$\mathbf{N}$	55-169	- 7 7	7		50	
1106	7	$\mathbf{\lambda}$	55-170	- 7 7	X \ \	×	70-	
" 1125	7	\		- 7 7	7		50-	
1128	7	\	55-172	7 7 7	7		-96	
11 1230	7			7 7 7	7		10-	
1. 1931			1	1	7		ġ	
SAMPLED & Signature) RELINBUISTED & Signature) RELINBUISTED & Signature) COMMENTS	ATORY:		ADDATE: 11/5/23 RELINQUISH TIME: 1/2/03 RELINQUISH TIME: 1/2/03 RECEIVED BY TIME: 1/2/03 RECEIVED BY	BY: (Signature) RECEIVED BY: (Signature)	TURNAROUND RUSH	DATE: DATE:	VED BY: (Signature) LE SHIPPED BY: (Circle) LE SHIPPED BY: (Circle) BUS A DELIVERED UPS E - RECEIVING LAB WW - RECEIVING LAB (TO BE RE LA AFTER RECEIPT)	AIRBILL #: OTHER: EFURNED TO
CITY: 0 desse	N N N	07-7	STATE: TX ZIP: 79765	DATE: 11-05-03 TIME	TIME	וניוט	GOLD - QA/QC COORDINATOR	
SAMPLE CONDITION WHEN RECEIVED	HEN RECEIVI	ä	1	LA CONTACT PERSON	4		SAMPLE TYPE: Sol	

**Appendix B** 

NMOCD Correspondence November 10, 2003

#### Mark Larson

From: Sent: To: Cc: Subject:	Price, Wayne [WPrice@state.nm.us] Tuesday, October 21, 2003 2:55 PM 'Mark Larson'; Price, Wayne Toner, Scott L (SToner) RE: Remediation Summary and Proposed Pipeline Excavation Work Plan, D.F. Fergason Lease, U.L. H, Section 30, Township 18 South, Range 39 East, Lea County, NM
OCD Hereby approves	of the work plan with the following condition:
	les of the areas that the TPH of the soil remains i.e. an SPLP test to make sure that the BTEX is within OCD
Sent: Friday, Octob To: Price, Wayne Cc: Toner, Scott L Subject: Re: Remedi	mailto:mark@laenvironmental.com] er 17, 2003 8:33 AM (SToner) ation Summary and Proposed Pipeline Excavation Work Lease, U.L. H, Section 30, Township 18 South, Range
attention. Chevron excavation at the D the pipeline right- contains the scope ChevronTexaco to co	, the above-referenced report was faxed to your Texaco is nearing completion of closing the emergency pit F. Fergason Lease, and would like to complete work along of-way located east of the excavation. The document of work for the project, and it would greatly benefit mplete the work while equipment and access is available. We work plan would be greatly appreciated.
Mark J. Larson Larson and Associat 507 N. Marienfeld S Midland, Texas 7970 (432) 687-0901 (off (432) 687-0456 (fax (432) 556-8656 (mob mark@LAenvironmenta	street, Suite 202 Dice) s) bile)

#### **Cindy Crain**

From:	Price, Wayne [WPrice@state.nm.us]
Sent:	Monday, November 10, 2003 3:39 PM
To:	'Cindy Crain'; Price, Wayne
Cc:	Scott Toner

Subject: RE: Remediation Summary and Proposed Pipeline Excavation Work Plan, D.F. Fergason Lease, U.L. H, Section 30, Township 18 South, Range 39 East, Lea County, NM (correct table)

#### APPROVED!

Please be advised that NMOCD approval does not relieve (Chevron-Texaco) of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Chevron-Texaco) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

----Original Message----From: Cindy Crain [mailto:cindy@laenvironmental.com]
Sent: Monday, November 10, 2003 2:36 PM
To: Price, Wayne
Cc: Scott Toner
Subject: RE: Remediation Summary and Proposed Pipeline Excavation Work Plan, D.F. Fergason Lease, U.L. H, Section 30, Township 18 South, Range 39 East, Lea County, NM (correct table)

Wayne,

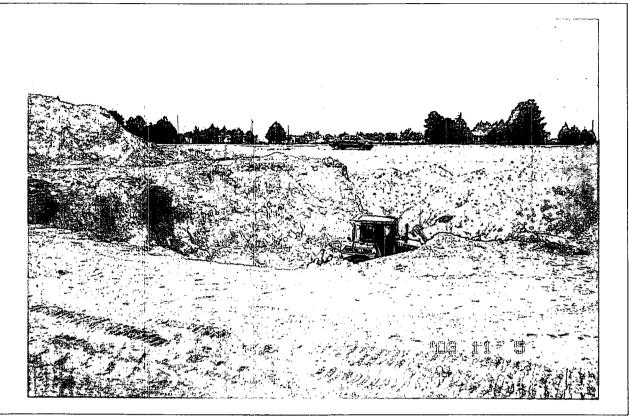
As per our conversation earlier today, the total TPH concentrations for soil samples SS-167 and SS-170 were 99.5 mg/kg and 738 mg/kg, respectively. An SPLP analysis for benzene was run on sample SS-170. Laboratory results show a benzene concentration of <0.001 mg/kg and a total BTEX concentration of 0.037 mg/kg. The laboratory results are being faxed to you.

A complete report of the pipeline excavation activities will be sent to you in the very near future; however, ChevronTexaco would like to backfill the excavation while equipment and access is available. Your approval of the closure would be greatly appreciated. Please call if you have questions or need additional information.

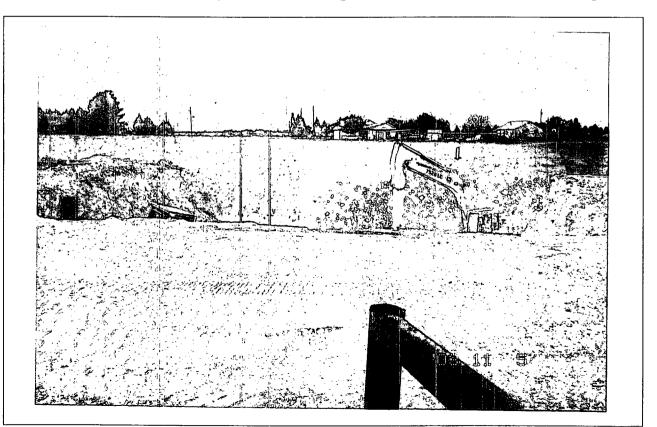
Sincerely,

Cindy Crain Project Manager/Geologist Larson and Associates, Inc. 507 N. Marienfeld, Suite 202 Midland, Texas 79702 office - (234)687-0901 mobile - (234)556-8665 Appendix C

Photographs

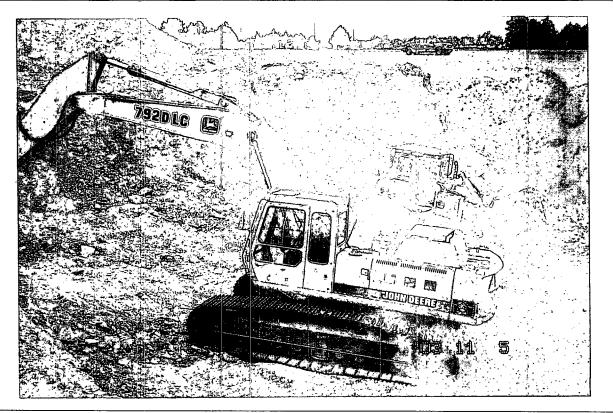


1. Pipeline Excavation – Hydrocarbon Staining Near Center of South Wall Beneath Pipeline



#### 2. Pipeline Excavation – Looking West

#### D.F. Fergason Lease Pipeline Excavation U. L. H, Section 30, Township 18 South, Range 39 East Lea County, New Mexico



3. Pipeline Excavation – Extending Excavation South