

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company <b>XTO Energy Inc.</b>	Contact <b>Kim Champlin</b>	
Address <b>#382 County Road 3100</b> <b>Aztec, NM 87410</b>	Telephone No. <b>(505) 333-3100</b>	
Facility Name <b>Sullivan Frame A #1 (API 30-045-07905)</b>	Facility Type <b>Gas Well (Dakota)</b>	
Surface Owner <b>Fee</b>	Mineral Owner	Lease No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>D</b>	<b>30</b>	<b>29N</b>	<b>10W</b>	<b>990</b>	<b>North</b>	<b>990</b>	<b>West</b>	<b>San Juan</b>

Latitude 36.70143 Longitude 107.93024

**NATURE OF RELEASE**

Type of Release <b>Produced Water</b>	Volume of Release <b>Approx 18 bbl</b>	Volume Recovered <b>Approx 0 bbl</b>
Source of Release <b>Produced Oil Tank (no oil in tank at the time)</b>	Date and Hour of Occurrence <b>03/16/09, time unknown</b>	Date and Hour of Discovery <b>03/16/09 at 6:00 pm</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>RCUD AUG 26 '09</b>	
By Whom?	Date and Hour <b>OIL CONS DIV.</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>N/A</b> <b>DIST. 3</b>	
If a Watercourse was Impacted, Describe Fully.* <b>N/A</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>An XTO employee discovered a loss of 18 barrels of produced water after gauging a tank. After investigation it was discovered that the water tank had a small leak on the bottom near the drain line. A second tank was brought to the location to temporarily store the produced oil remaining in the tank and the remaining water was taken to an injection disposal. The release was contained with the berm but the pit was not lined and there was no standing fluid to recover.</b>		
Describe Area Affected and Cleanup Action Taken.* <b>The water was contained within secondary containment, no water left location. The area within the tank was excavated and contaminated soil was disposed of at an approved landfarm. Samples were collected from the walls of the excavation and results will be submitted upon receipt. After review of results it will be determined whether or not further remediation is required.</b>		
Area was excavated with a third party contractor onsite. PID readings were conducted during excavation and samples collected. All excavated soil was disposed of at a licensed facility. Groundwater was encountered in part of the excavation, vac'd and sampled also. Attached is a report of activities, sampling, sample results and recommendation of closure.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <i>Kim Champlin</i>		<b>OIL CONSERVATION DIVISION</b>
Printed Name: <b>Kim Champlin</b>	Approved by District Supervisor: <i>Branch Pell</i> For: <i>Charlie Perrin</i>	
Title: <b>Sr. Environmental Representative</b>	Approval Date: <b>8/26/09</b>	Expiration Date:
E-mail Address: <b>Kim_Champlin@xtoenergy.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>08/07/09</b>	Phone: <b>505-333-3100</b>	

\* Attach Additional Sheets If Necessary

Incident # **NLMD 0926036861**

April 29, 2009

Mr. Martin Nee  
XTO Energy, Inc.  
San Juan Division  
382 CR 3100  
Aztec, NM 87410

**RE: Soil Excavation at the Sullivan Frame A #1**

Dear Mr. Nee,

On April 6<sup>th</sup> through 10<sup>th</sup>, 2009, Lodestar Services, Inc. (Lodestar) conducted excavation oversight at the Sullivan Frame A #1 natural gas production well operated by XTO Energy, Inc. (XTO). During routine maintenance at the site, XTO discovered a release from the produced oil tank on location and began excavating impacted soil. Lodestar was contracted to conduct field screening, document soil removal and collect laboratory closure samples of the affected soils and groundwater.

The Sullivan Frame A #1 is located ¼ mile north of San Juan County Road 4990 (Sullivan Road) and 3.3 miles east of NM highway 44 (US 550), within Unit D of Section 30 within Township 29N and Range 10W. The San Juan River is ¼ mile to the north of the site. Depth to groundwater in the area is 4-6 feet below ground surface (bgs) based on the presence of standing groundwater at that depth in the excavation.

Lodestar first arrived at the site at 0900 on April 6<sup>th</sup>. The 300 bbl tank associated with the release had been relocated, and preliminary excavation of the former containment berm area was complete. Lodestar conducted field screening and recommended additional soil removal. Field screening was conducted by monitoring soil headspace gas with a photo-ionization detector (PID) according to NMOCD headspace techniques. As the excavation progressed, inoperative underground piping was extracted. The excavation concluded at midday on April 10<sup>th</sup> when field screening indicated impacted soil had been removed. The final excavation was roughly 90 feet square and approximately 5 feet deep. A site map is attached showing the general site layout and final excavation perimeter.

A geologist from Lodestar collected closure samples from throughout the excavation. Composite samples were collected by depositing five aliquots of soil into plastic bags, thoroughly mixing the contents and sampling into four-ounce glass jars. The samples were stored on ice and shipped to Hall Environmental Analysis Laboratory following strict chain-of-custody procedures. Hall analyzed the soil samples for benzene, toluene, ethyl-benzene and total xylenes (BTEX), as well as total petroleum hydrocarbons (TPH).

Results from laboratory testing are presented below. Laboratory reports, including chain-of-custody documents, are attached.

**Sullivan Frame A #1 Final Soil Sample Results**

	<b>TPH</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl- benzene</b>	<b>Xylenes</b>	<b>Total BTEX</b>
<b>Sample Name</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
<b>North Wall</b>	ND	ND	ND	ND	0.16	0.16
<b>South Wall</b>	ND	ND	ND	ND	ND	NA
<b>East Wall</b>	ND	ND	ND	ND	ND	NA
<b>West Wall</b>	ND	ND	ND	ND	ND	ND
<b>Floor Composite</b>	ND	ND	0.43	0.085	1.7	2.215
<b>NMOCD Standard</b>	<b>100</b>	<b>10</b>	NA	NA	NA	<b>50</b>

**TPH: Total Petroleum Hydrocarbons**

**BTEX: benzene, toluene, ethyl benzene, and xylenes**

**ppm: parts per million**

**mg/kg: milligrams per kilogram**

**NA: not applicable**

**ND: not detected**

Groundwater from the excavation was also sampled, following two evacuations of the pit groundwater via vacuum truck. A grab sample taken on April 15th and shipped to Hall Environmental Analysis Laboratory (HEAL). HEAL analyzed the groundwater for BTEX. Results from laboratory testing are presented below and indicate BTEX concentrations are below New Mexico Water Quality Control Commission (MNWQCC) standards.

**Sullivan Frame A #1 Final Groundwater Sample Results**

	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl- benzene</b>	<b>Xylenes</b>
<b>Sample Name</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
<b>Pit GW</b>	9.5	60	14	240
<b>NMWQCC Standard</b>	<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>

**µg/l: micrograms per liter**

**NA: not applicable**

**ND: not detected**

Based on the soil and groundwater sampling results presented above, Lodestar recommends XTO request closure of the site from NMOCD and ask that no further action be required.

 **Lodestar Services, Incorporated** PO Box 4465, Durango, CO 81302

April 29, 2009  
Mr. Martin Nee  
Page 3 of 3

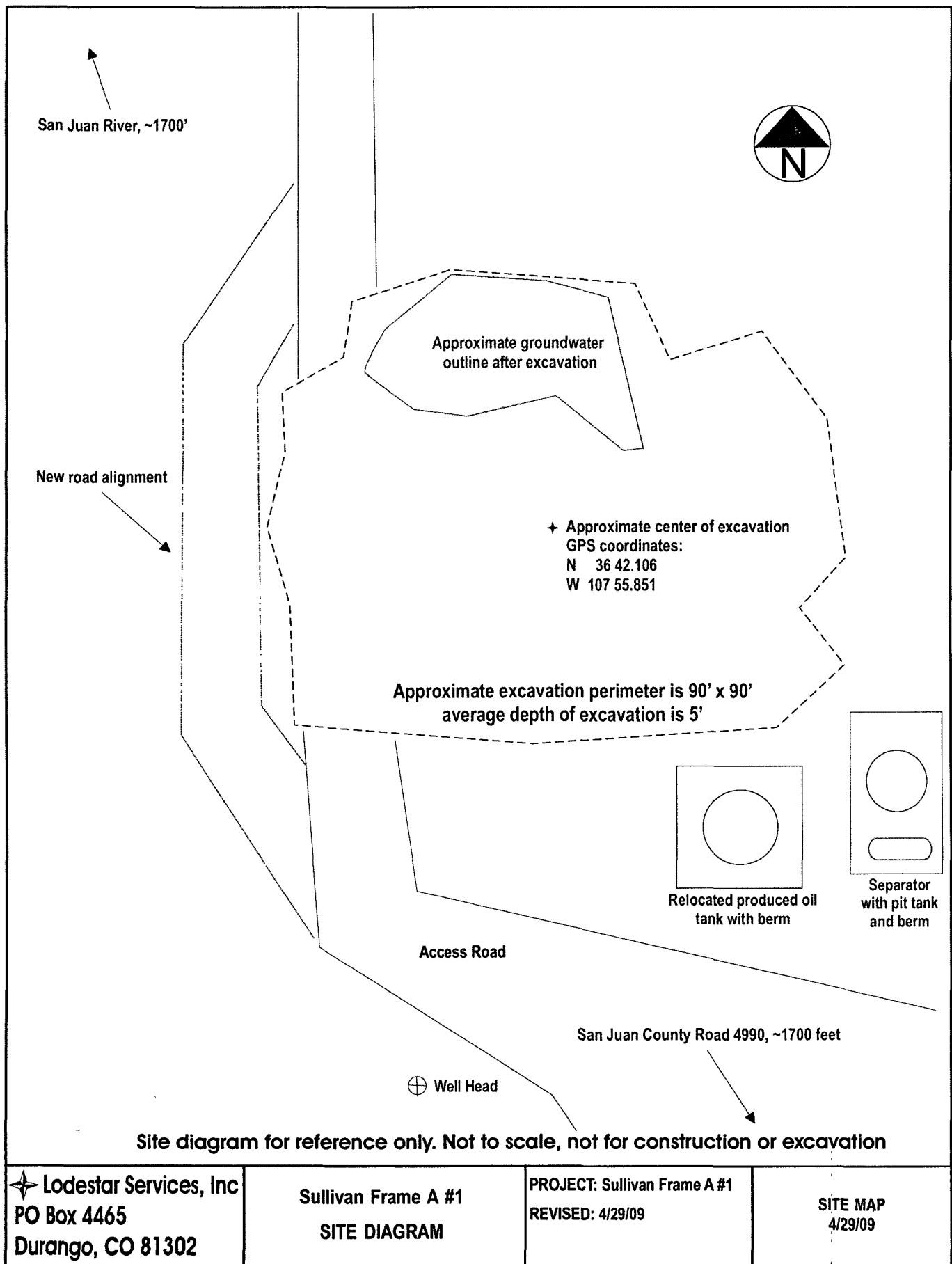
Should you have any questions or require additional information you may contact me at (970) 946-1093.

Respectfully Submitted,

Ashley Ager  
Lodestar Services, Inc.

Attachments: Site Map  
Laboratory Results

CC: Kim Champlin, XTO  
File





## COVER LETTER

Wednesday, April 22, 2009

Martin Nee  
XTO Energy  
382 County Road 3100  
Aztec, NM 87410

TEL: (505) 333-3100

FAX (505) 333-3280

RE: Sullivan Frame A #1

Order No.: 0904180

Dear Martin Nee:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 4/13/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425  
AZ license # AZ0682  
ORELAP Lab # NM100001  
Texas Lab# T104704424-08-TX



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109  
505.345.3975 ■ Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

**Hall Environmental Analysis Laboratory, Inc.**

Date: 22-Apr-09

**CLIENT:** XTO Energy  
**Lab Order:** 0904180  
**Project:** Sullivan Frame A #1  
**Lab ID:** 0904180-01

**Client Sample ID:** North Wall Comp.  
**Collection Date:** 4/7/2009 3:41:00 PM  
**Date Received:** 4/13/2009  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	4/17/2009 2:09:07 PM
Toluene	ND	0.050		mg/Kg	1	4/17/2009 2:09:07 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2009 2:09:07 PM
Xylenes, Total	0.16	0.10		mg/Kg	1	4/17/2009 2:09:07 PM
Surr: 4-Bromofluorobenzene	95.4	66.8-139		%REC	1	4/17/2009 2:09:07 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: TAF
Chloride	230	3.0		mg/Kg	10	4/17/2009 6:09:51 PM
<b>EPA METHOD 418.1: TPH</b>						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/14/2009

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 22-Apr-09

**CLIENT:** XTO Energy  
**Lab Order:** 0904180  
**Project:** Sullivan Frame A #1  
**Lab ID:** 0904180-02

**Client Sample ID:** Floor Composite  
**Collection Date:** 4/7/2009 4:44:00 PM  
**Date Received:** 4/13/2009  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	4/17/2009 2:39:39 PM
Toluene	0.43	0.050		mg/Kg	1	4/17/2009 2:39:39 PM
Ethylbenzene	0.085	0.050		mg/Kg	1	4/17/2009 2:39:39 PM
Xylenes, Total	1.7	0.10		mg/Kg	1	4/17/2009 2:39:39 PM
Surr: 4-Bromofluorobenzene	120	66.8-139		%REC	1	4/17/2009 2:39:39 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: TAF
Chloride	160	3.0		mg/Kg	10	4/16/2009 8:43:18 PM
<b>EPA METHOD 418.1: TPH</b>						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/14/2009

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit



**Hall Environmental Analysis Laboratory, Inc.**

Date: 22-Apr-09

**CLIENT:** XTO Energy  
**Lab Order:** 0904180  
**Project:** Sullivan Frame A #1  
**Lab ID:** 0904180-03

**Client Sample ID:** East Wall Comp.  
**Collection Date:** 4/8/2009 4:16:00 PM  
**Date Received:** 4/13/2009  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	4/17/2009 3:10:20 PM
Toluene	ND	0.050		mg/Kg	1	4/17/2009 3:10:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2009 3:10:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2009 3:10:20 PM
Surr: 4-Bromofluorobenzene	106	66.8-139		%REC	1	4/17/2009 3:10:20 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: TAF
Chloride	28	3.0		mg/Kg	10	4/16/2009 9:00:43 PM
<b>EPA METHOD 418.1: TPH</b>						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/14/2009

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 22-Apr-09

**CLIENT:** XTO Energy  
**Lab Order:** 0904180  
**Project:** Sullivan Frame A #1  
**Lab ID:** 0904180-04

**Client Sample ID:** South Wall Comp.  
**Collection Date:** 4/9/2009 11:55:00 AM  
**Date Received:** 4/13/2009  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	4/17/2009 3:40:46 PM
Toluene	ND	0.050		mg/Kg	1	4/17/2009 3:40:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2009 3:40:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2009 3:40:46 PM
Surr: 4-Bromofluorobenzene	91.2	66.8-139		%REC	1	4/17/2009 3:40:46 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: TAF
Chloride	610	3.0		mg/Kg	10	4/17/2009 6:27:15 PM
<b>EPA METHOD 418.1: TPH</b>						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/14/2009

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
B Estimated value  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 22-Apr-09

**CLIENT:** XTO Energy  
**Lab Order:** 0904180  
**Project:** Sullivan Frame A #1  
**Lab ID:** 0904180-05

**Client Sample ID:** West Wall Comp.  
**Collection Date:** 4/10/2009 11:12:00 AM  
**Date Received:** 4/13/2009  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	4/17/2009 4:11:14 PM
Toluene	ND	0.050		mg/Kg	1	4/17/2009 4:11:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2009 4:11:14 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2009 4:11:14 PM
Surr: 4-Bromofluorobenzene	99.8	66.8-139		%REC	1	4/17/2009 4:11:14 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: TAF
Chloride	270	3.0		mg/Kg	10	4/17/2009 6:44:40 PM
<b>EPA METHOD 418.1: TPH</b>						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/14/2009

<b>Qualifiers:</b>	<b>*</b> Value exceeds Maximum Contaminant Level	<b>B</b> Analyte detected in the associated Method Blank
	<b>E</b> Estimated value	<b>H</b> Holding times for preparation or analysis exceeded
	<b>J</b> Analyte detected below quantitation limits	<b>MCL</b> Maximum Contaminant Level
	<b>ND</b> Not Detected at the Reporting Limit	<b>RL</b> Reporting Limit
	<b>S</b> Spike recovery outside accepted recovery limits	

## QA/QC SUMMARY REPORT

Client: XTO Energy

Project: Sullivan Frame A #1

Work Order: 0904180

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<b>Method: EPA Method 300.0: Anions</b>									
Sample ID: MB-18837		MBLK			Batch ID: 18837	Analysis Date: 4/15/2009 8:23:40 PM			
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-18837		LCS			Batch ID: 18837	Analysis Date: 4/15/2009 8:41:04 PM			
Chloride	15.66	mg/Kg	0.30	104	90	110			
<b>Method: EPA Method 418.1: TPH</b>									
Sample ID: MB-18829		MBLK			Batch ID: 18829	Analysis Date: 4/14/2009			
Petroleum Hydrocarbons, TR	ND	mg/Kg	20						
Sample ID: LCS-18829		LCS			Batch ID: 18829	Analysis Date: 4/14/2009			
Petroleum Hydrocarbons, TR	98.06	mg/Kg	20	98.1	82	114			
Sample ID: LCSD-18829		LCSD			Batch ID: 18829	Analysis Date: 4/14/2009			
Petroleum Hydrocarbons, TR	99.28	mg/Kg	20	99.3	82	114	1.24	20	
<b>Method: EPA Method 8021B: Volatiles</b>									
Sample ID: MB-18817		MBLK			Batch ID: 18817	Analysis Date: 4/17/2009 7:14:07 PM			
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: LCS-18817		LCS			Batch ID: 18817	Analysis Date: 4/17/2009 6:43:29 PM			
Benzene	1.083	mg/Kg	0.050	106	78.8	132			
Toluene	1.024	mg/Kg	0.050	102	78.9	112			
Ethylbenzene	1.081	mg/Kg	0.050	108	69.3	125			
Xylenes, Total	3.224	mg/Kg	0.10	107	73	128			

## Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

4/13/2009

Work Order Number 0904180

Received by: ARS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

8°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

<b>Chain-of-Custody Record</b>		Turn-Around Time:	
Client: <u>Xto energy</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
<u>Kim Champlin</u>		Project Name:	
Mailing Address: <u>382 CR 3100</u>		<u>Sullivan Frame A #1</u>	
<u>Aztec NM 87410</u>		Project #:	
Phone #:		Project Manager:	
email or Fax#: <u>Kim.champlin@xtorenergy.com</u>		<u>Martin Nee</u>	
QA/QC Package:		Sampler: <u>Steven Ayer</u>	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		On Site: <u>Yes</u>	
Accreditation		Sample Temperature: <u>2</u>	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____			
<input type="checkbox"/> EDD (Type) _____			

☒ Standard      ☐ Rush

Project Name:

Sullivan Frame A #1

Project #:


**Project Manager:**

Martin Nee

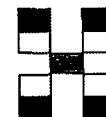
Sampler: Steven Aser

Sample Temperature

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/20/09	0700			7/23/09	15:02
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: please copy results to  
ala@iquestarservices.com



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## Analysis Request

[illegible]



## COVER LETTER

Monday, April 27, 2009

Martin Nee  
XTO Energy  
382 County Road 3100  
Aztec, NM 87410

TEL: (505) 333-3100  
FAX (505) 333-3280

RE: Sullivan Frame A#1

Order No.: 0904301

Dear Martin Nee:


Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 4/21/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425  
AZ license # AZ0682  
ORELAP Lab # NM100001  
Texas Lab# T104704424-08-TX



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109  
505.345.3975 ■ Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

**Hall Environmental Analysis Laboratory, Inc.**

Date: 27-Apr-09

**CLIENT:** XTO Energy  
**Project:** Sullivan Frame A#1**Lab Order:** 0904301**Lab ID:** 0904301-01**Collection Date:** 4/15/2009 2:55:00 PM**Client Sample ID:** Pit GW**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: HL
Benzene	9.5	1.0		µg/L	1	4/24/2009 11:38:04 AM
Toluene	60	1.0		µg/L	1	4/24/2009 11:38:04 AM
Ethylbenzene	14	1.0		µg/L	1	4/24/2009 11:38:04 AM
Xylenes, Total	240	2.0		µg/L	1	4/24/2009 11:38:04 AM
Surr: 4-Bromofluorobenzene	93.3	80.4-119		%REC	1	4/24/2009 11:38:04 AM

**Lab ID:** 0904301-02**Collection Date:****Client Sample ID:** TRIP BLANK**Matrix:** TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: HL
Benzene	ND	1.0		µg/L	1	4/24/2009 12:06:53 PM
Toluene	ND	1.0		µg/L	1	4/24/2009 12:06:53 PM
Ethylbenzene	ND	1.0		µg/L	1	4/24/2009 12:06:53 PM
Xylenes, Total	ND	2.0		µg/L	1	4/24/2009 12:06:53 PM
Surr: 4-Bromofluorobenzene	100	80.4-119		%REC	1	4/24/2009 12:06:53 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit



## QA/QC SUMMARY REPORT

Client: XTO Energy  
Project: Sullivan Frame A#1

Work Order: 0904301

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260: Volatiles Short List

Sample ID: 5ml rb MBLK

Batch ID: R33416 Analysis Date: 4/24/2009 8:45:27 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0

Sample ID: 100ng lcs LCS

Batch ID: R33416 Analysis Date: 4/24/2009 9:42:54 AM

Benzene	17.18	µg/L	1.0	85.9	86.8	120	S
Toluene	22.89	µg/L	1.0	114	64.1	127	

## Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

4/21/2009

Work Order Number 0904301

Received by: TLS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Container/Temp Blank temperature?	3°	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_



Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

<h1>Chain-of-Custody Record</h1>		Turn-Around Time:	
Client: <u>xto energy</u> <u>Kim Champlin</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: <u>382 CR 3100</u> <u>Aztec NM 87410</u>		Project Name: <u>Sullivan Frame A#1</u>	
Phone #: <u>505 333 3207</u>		Project #:	
email or Fax#:		Project Manager: <u>Martin Nee</u>	
QA/QC Package:		Sampler: <u>Steve Agor</u>	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		<input type="checkbox"/> Other _____	
<input type="checkbox"/> EDD (Type) _____		<input type="checkbox"/> EDD (Type) _____	

Sample Temperature: 3

[illegible][illegible]

Date: 4/20/09	Time: 0700	Relinquished by: 	Received by: 	Date: 4/21/09	Time: 825
Date:	Time:	Relinquished by:	Received by:	Date:	Time:

Remarks: please copy results to  
ala@lodestarservices.com