Larson & Associates, Inc.
Environmental Consultants

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January 5, 2010

VIA HAND DELIVERED

Mr. Geoffrey Leking, Env. Engineer
State of New Mexico – Oil Conservation Division
1625 N French Drive
Hobbs, New Mexico 88240

RE: OCD Remediation Project No. 1RP-10-1-2378, EMSU Satellite #8 Removal and Excavation Closure Report, XTO Energy, Inc., Unit I (NE/4, SE/4), Section 7, Township 21 South, Range 36 East, Lea County, New Mexico

Dear Mr. Leking:

This report is submitted to the State of New Mexico Oil Conservation Division on behalf of XTO Energy, Inc. (XTO) by Larson and Associates, Inc., its agent, and presents the results of remedial actions performed at referenced below grade tank removal.

Based upon the results of this investigation, XTO requests OCD closure approval.

If you have any questions or concerns, please call me at 432.687.0901 to discuss.

Sincerely,

LARSON & ASSOCIATES, INC.

Michelle L. Green
Environmental Scientist - Chemist
michelle@laenvironmental.com

Attachments

CC Mr. Dudley McMinn – XTO Energy, Midland, TX
Mr. Rick Wilson – XTO Energy, EMSU

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Below Grade Tank Removal and Excavation Closure Report

XTO Energy, Inc.
1RP-10-1-2378
Eunice Monument South Unit – Satellite #8
Unit I (NE/4, SE/4), Section 7, T21S, R36E
Lea County, NM

Project No. 8-0148

Prepared by:

Larson and Associates, Inc.
507 North Marienfeld Street
Suite 200
Midland, Texas 79701
432.687.0901

January 5, 2010

Table of Contents

Tables

Figures

Appendices

1.0 Executive Summary

This report is submitted to the State of New Mexico Oil Conservation Division (OCD) on behalf of XTO Energy, Inc. (XTO) by Larson and Associates, Inc. (LAI), its consultant, and presents the results of remedial actions performed at the referenced below grade tank removal. The following report documents the removal of the below grade tank associated with the Eunice Monument South Unit (EMSU), Satellite #8 (Facility) located in Lea County, New Mexico. The legal description of the Facility is Unit I (NE/4, SE/4), Section 7, Township 21 South, Range 36 East (Figure 1). The Site has a geodetic location of N32° 29' 37.02", W103° 17' 51.66".

Closure activities consisted of notifications to the New Mexico Oil Conservation Division (OCD) and the landowner of record (New Mexico State Land Office), removal of ancillary equipment and tank, removal of soil, collection of soil samples, OCD issuance of a remediation case number and the subsequent investigation. Activities were performed in conformance with New Mexico Administrative Code Rule 19.15.17 as amended June 16, 2008 and June 18, 2009.

2.0 Operator Information

Primary Contact:	Mr. Rick Wilson
Address:	XTO Energy Inc., Permian Division – SE New Mexico
	PO Box 700
	Eunice, New Mexico 88231
Office:	575.394.2089, ext. 2201
Secondary Contact:	Mr. Guy Haykus
Address:	XTO Energy Inc.
	Midland Office
	200 N. Loraine Street, Suite 800
	Midland, Texas 79701
Office:	432.682.8873

3.0 Closure Actions

3.1 Location and Siting Description

The Site has a geodetic location of N32° 29' 37.02", W103° 17' 51.66", and is located in rural Lea County, New Mexico. The nearest producing well is the XTO EMSU Well #293, with API # 30-025-04539. The Site encompasses a 0.6-acre tract of land. The Facility consisted of a fiberglass, below-ground storage tank, with an approximate capacity of 90 barrels. The surface is covered with crushed caliche rock, has an earthen berm to prevent run-on/run-off, and is situated in flat to very gently sloping land (Figures 2 and 3).

The Facility's siting criteria presented the following findings:

- Groundwater is more than 100 feet below ground surface based on records from the New Mexico State Engineer (NMSE).
- No continuously flowing watercourse is within 300 horizontal feet of the Facility.

- No surface water features, including lakes, rivers, ponds, arroyos, lakebed, sinkhole, or playa lake, are located within 200 horizontal feet of Facility.
- No permanent residence, school, hospital, institution, or church is within 300 horizontal feet of Facility.
- No private, domestic fresh-water well or spring are within 500 horizontal feet of Facility.
- No other fresh water wells or springs are within 1000 horizontal feet of the Facility.
- The Facility is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance.
- The Facility is not within 500 feet an area designated as wetlands.
- The Facility is not within an area overlying a subsurface mine.
- The Facility is not within an unstable area.
- The Facility is not within a 100-year flood plain.

3.2 Closure Plan and Approval

On December 12, 2008, LAI, on behalf of XTO, submitted a below grade tank closure plan to the OCD in Santa Fe and Hobbs, New Mexico, in accordance with an Agreed Scheduling Order (ASO-008) between XTO and OCD. The Closure Plan was approved and signed by the OCD representative Mr. Brad Jones on July 17, 2009.

3.3 Landowner and OCD Notifications

In accordance with the approved closure plan and prior to commencing work, notification of closure was sent by XTO to the New Mexico State Land Office (the surface owner) and the OCD.

3.4 Tank Removal Closure Activities

On December 10, 2009, XTO removed ancillary equipment (i.e. metal barricade) for salvage or scrap metal. A Hydro-Vac truck was used to excavate soil around the tank. LAI personnel performed a site visit to collect a 5-part composite soil sample from the bottom (Satellite 8 Bottom).

The sample was analyzed for the following constituents: benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1. The Satellite 8 Bottom sample was below the TPH and chloride OCD reporting levels of 100 ppm (96.7 ppm) and 250 ppm (99.3 ppm), respectively.

An initial C-141 was submitted to the OCD District 1, Hobbs office on December 22, 2009. The OCD District 1 office issued remediation project number 1RP-10-1-2378.

Summary of analytical data is presented in Table 1. Analytical laboratory report is presented in Appendix A.

4.0 Conclusion and Recommendation

Based on the soil sample results, XTO requests approval from OCD District 1 to close the excavation according to the requirements of the closure plan approved by the OCD Santa Fe office. The initial and final C-141 forms are presented in Appendix B.

Table 1
Soil Analytical Data Summary
EMSU - Satellite #8
XTO Energy, Inc.
Lea County, New Mexico
Project No.: 8-0148

Sample ID	Date	Benzene	Ethyl benzene	Toluene	Total Xylenes	Total BTEX	TRPH	Chlorides
Reporting Limit		0.2				50	100	250
Satellite 8 Bottom	12/10/2009	<0.0011	<0.0011	<0.0023	<0.0011	<0.0011	96.7	99.3

Notes

RRAL - Recommended Remediation Action Level

Total Petroleum Hydrocarbons analyzed via Method 418.1.

Chlorides analyzed via EPA Method 300.

All values reported in Milligrams per Kilogram - dry (mg/kg, parts per million).

Bold and blue indicates the value exceeds NMOCD requirements.

JWW

Y \PROJECTS\XTO ENERGY\8-01\8-0148 EMSU SAT #8 dwg, 12/22/2009 2 24 05 PM

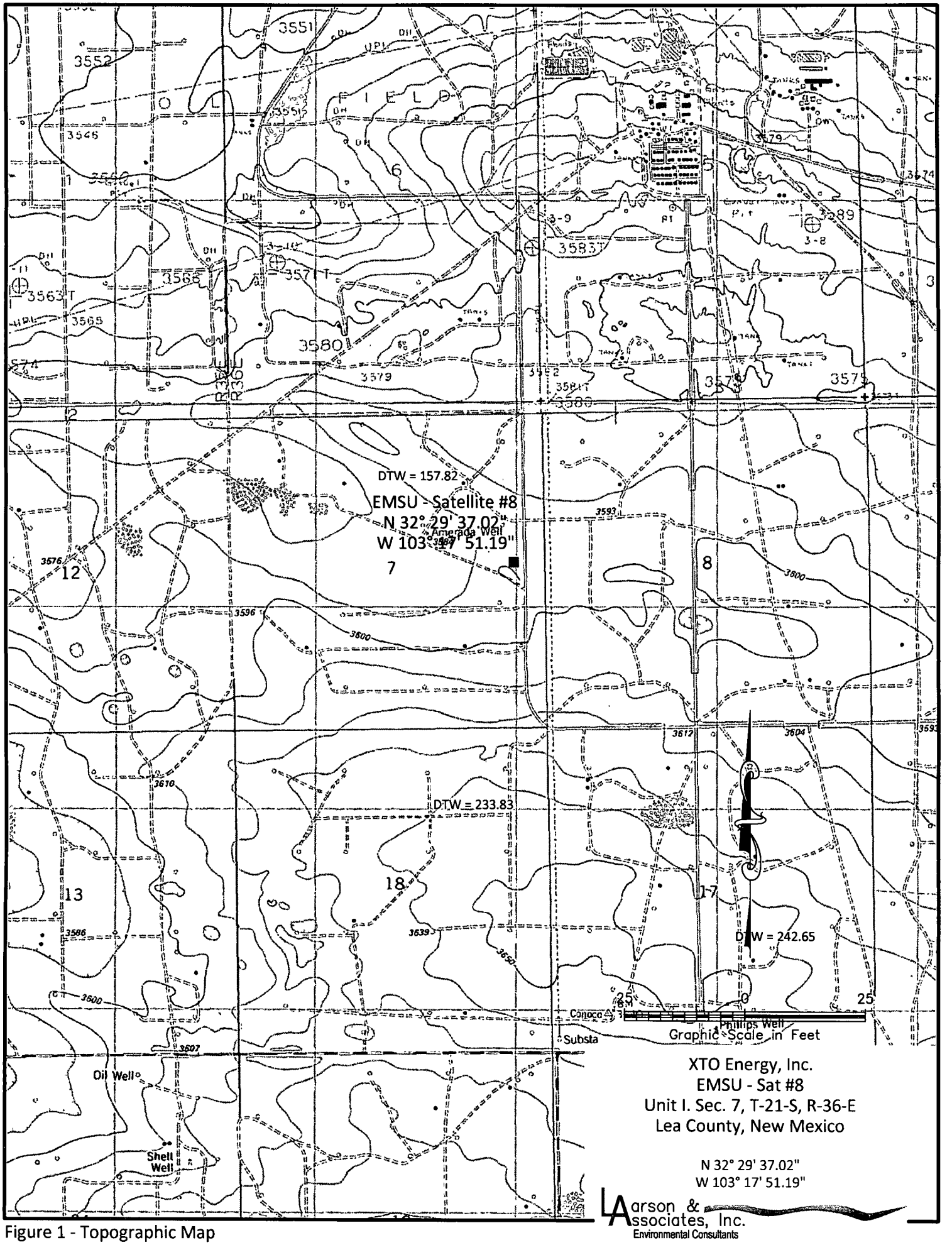
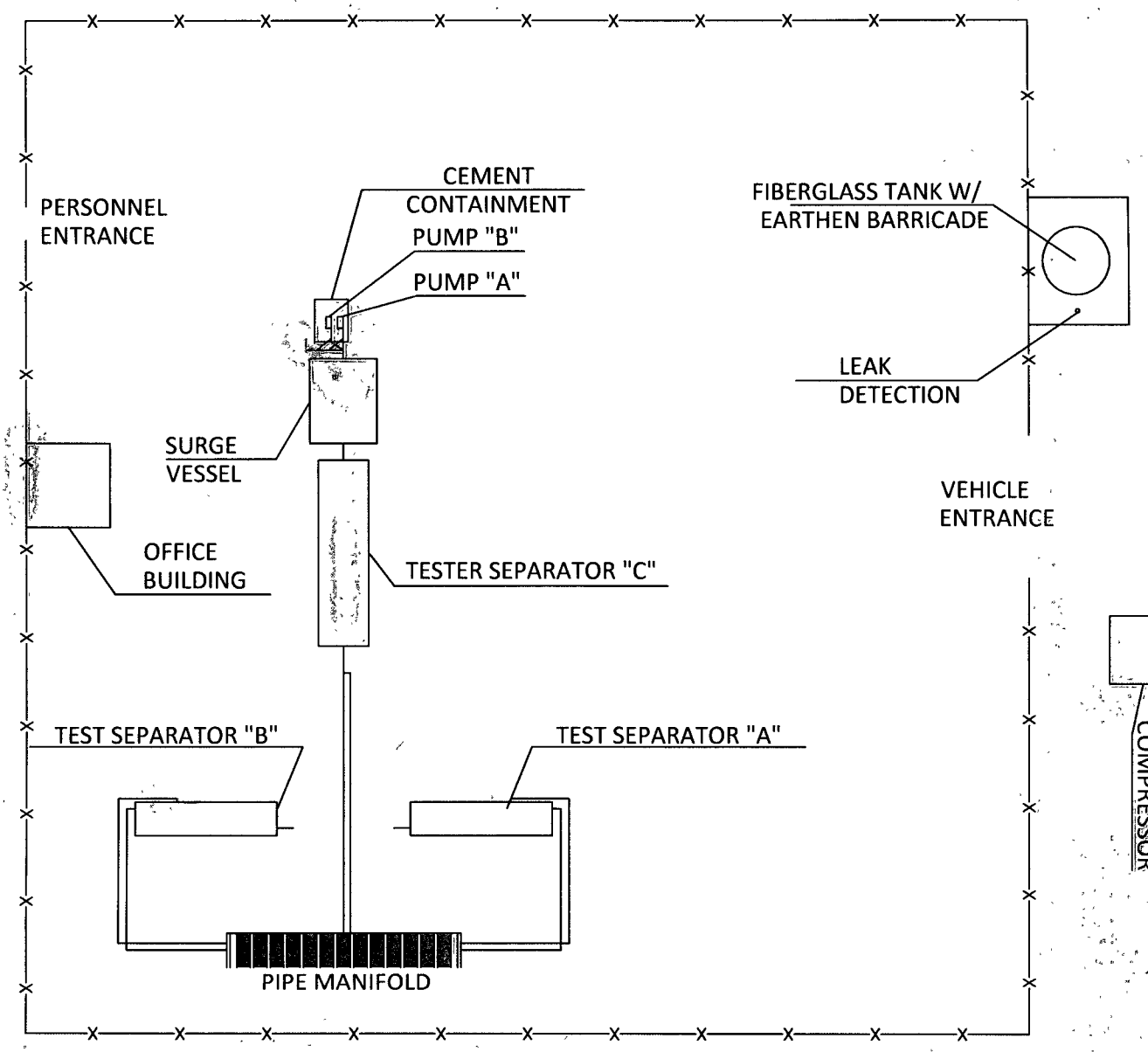
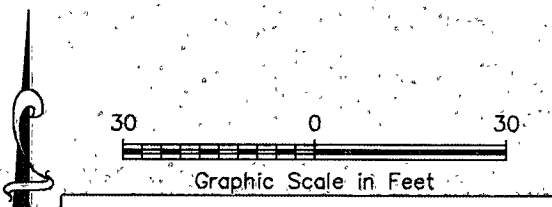


Figure 1 - Topographic Map



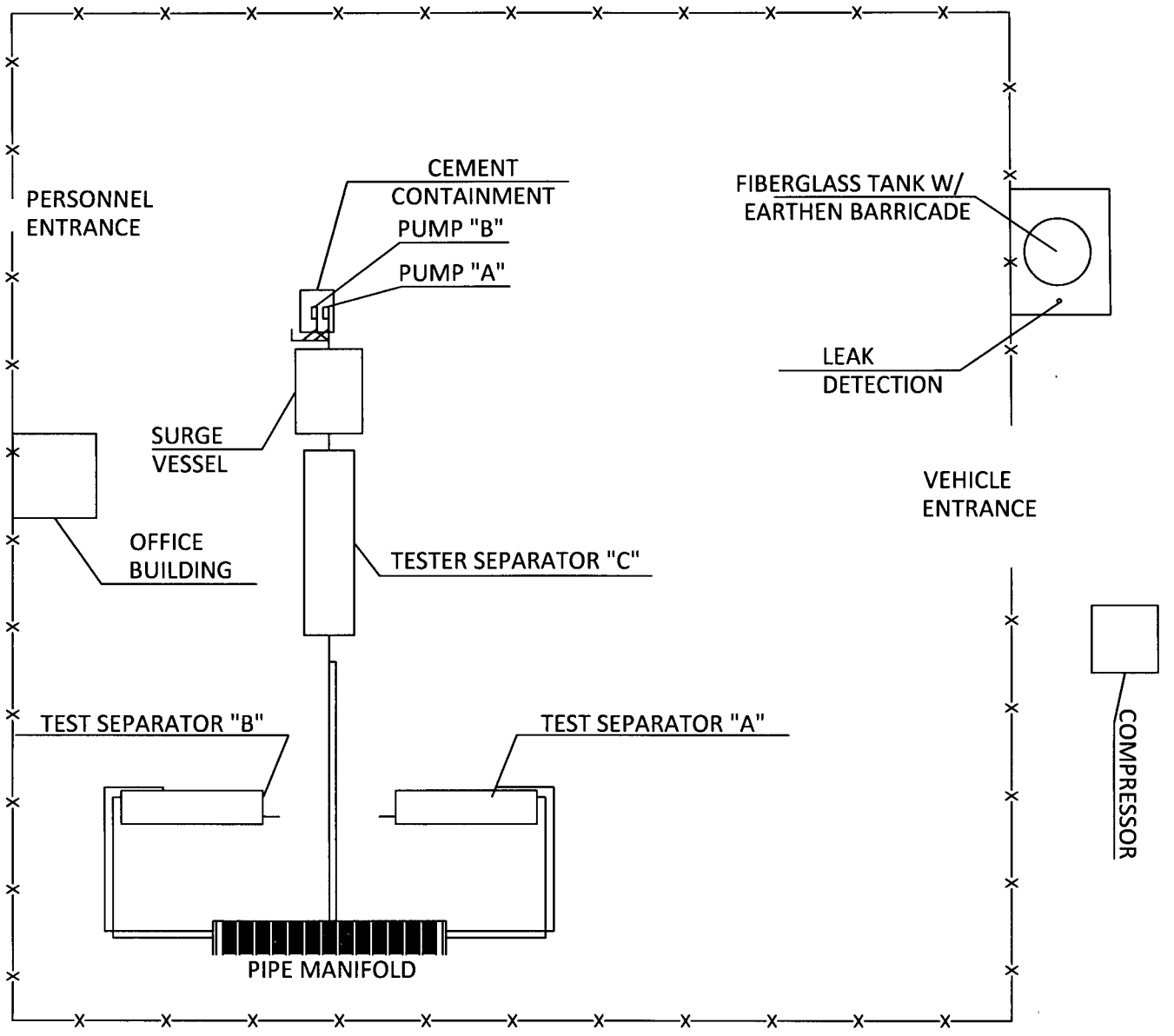


XTO Energy, Inc.
EMSU - Sat #8
Unit I. Sec. 7, T-21-S, R-36-E
Lea County, New Mexico

N 32° 29' 37.02"
W 103° 17' 51.19"

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial



30 0 30

Graphic Scale in Feet

XTO Energy, Inc.
EMSU - Sat #8
Unit I. Sec. 7, T-21-S, R-36-E
Lea County, New Mexico

N 32° 29' 37.02"
W 103° 17' 51.19"

LArson & Associates, Inc.
Environmental Consultants

Figure 3 - Site Drawing

Analytical Report 355229

for

Larson & Associates

Project Manager: Michelle Green

XTO / ESMU - Satellite - 8

8-0148

21-DEC-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

XENCO Laboratories

21-DEC-09

Project Manager: **Michelle Green**
Larson & Associates
P.O. Box 50685
Midland, TX 79710

Reference: XENCO Report No: **355229**
XTO / ESMU - Satellite - 8
Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 355229. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 355229 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 355229

Larson & Associates, Midland, TX

XTO / ESMU - Satellite - 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Satellite-8 Pit Bottom	S	Dec-10-09 09:40		355229-001

CASE NARRATIVE

XENCO Laboratories

Client Name: Larson & Associates
Project Name: XTO / ESMU - Satellite - 8

Project ID: 8-0148 | *Report Date:* 21-DEC-09
Work Order Number: 355229 | *Date Received:* 12/11/2009

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-785465 Percent Moisture
None

Batch: LBA-785471 Anions by E300
None

Batch: LBA-786005 TPH by EPA 418.1
None

Batch: LBA-786278 BTEX by EPA 8021B
SW8021BM

Batch 786278, m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 355229-001.
The Laboratory Control Sample for m,p-Xylenes is within laboratory Control Limits

Certificate of Analysis Summary 355229

Larson & Associates, Midland, TX

Project Name: XTO / ESMU - Satellite - 8

Project Id: 8-0148
Contact: Michelle Green
Project Location:

Date Received in Lab: Fri Dec-11-09 09:23 am
Report Date: 21-DEC-09
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	355229-001					
	Field Id:	Satellite-8 Pit Bottom					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Dec-10-09 09 40					
Anions by E300	***Extracted:***						
	Analyzed:	Dec-11-09 18 28					
	Units/RL:	mg/kg	RL				
Chloride		99 3	4 76				
BTEX by EPA 8021B	***Extracted:***	Dec-17-09 13 30					
	Analyzed:	Dec-17-09 21 12					
	Units/RL:	mg/kg	RL				
Benzene		ND	0 0011				
Toluene		ND	0 0023				
Ethylbenzene		ND	0 0011				
m,p-Xylenes		ND	0 0023				
o-Xylene		ND	0 0011				
Total Xylenes		ND	0 0011				
Total BTEX		ND	0 0011				
Percent Moisture	***Extracted:***						
	Analyzed:	Dec-11-09 17 00					
	Units/RL:	%	RL				
Percent Moisture		11 7	1 00				
TPH by EPA 418.1	***Extracted:***						
	Analyzed:	Dec-16-09 09 46					
	Units/RL:	mg/kg	RL				
TPH, Total Petroleum Hydrocarbons		96 7	11 3				

Brent Barron, II
Odessa Laboratory Manager

Final Ver 1 000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: XTO / ESMU - Satellite - 8

Work Orders : 355229,

Project ID: 8-0148

Lab Batch #: 786278 **Sample:** 545849-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/17/09 18:13

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0324	0 0300	108	80-120	
4-Bromofluorobenzene	0 0308	0 0300	103	80-120	

Lab Batch #: 786278 **Sample:** 545849-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/17/09 18:36

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0315	0 0300	105	80-120	
4-Bromofluorobenzene	0 0304	0 0300	101	80-120	

Lab Batch #: 786278 **Sample:** 545849-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/17/09 19:42

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0276	0 0300	92	80-120	
4-Bromofluorobenzene	0 0270	0.0300	90	80-120	

Lab Batch #: 786278 **Sample:** 355229-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/09 21:12

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0267	0 0300	89	80-120	
4-Bromofluorobenzene	0 0269	0 0300	90	80-120	

Lab Batch #: 786278 **Sample:** 355585-006 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 17:23

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0309	0 0300	103	80-120	
4-Bromofluorobenzene	0 0279	0 0300	93	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits, data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: XTO / ESMU - Satellite - 8

Work Orders : 355229,

Project ID: 8-0148

Lab Batch #: 786278 **Sample:** 355585-006 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 17:46

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0303	0 0300	101	80-120	
4-Bromofluorobenzene	0 0267	0 0300	89	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

XENCO Laboratories

Blank Spike Recovery

Project Name: XTO / ESMU - Satellite - 8

Work Order #: 355229 **Project ID:** 8-0148

Lab Batch #: 785471 **Sample:** 785471-1-BKS **Matrix:** Solid

Date Analyzed: 12/11/2009 **Date Prepared:** 12/11/2009 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Anions by E300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10 0	10 7	107	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes
BRL - Below Reporting Limit

XENCO Laboratories

BS / BSD Recoveries

ACCREDITED IN ACCORDANCE WITH ISO 17025 nelac

Project Name: XTO / ESMU - Satellite - 8

Work Order #: 355229 **Project ID:** 8-0148

Analyst: ASA **Date Prepared:** 12/17/2009 **Date Analyzed:** 12/17/2009

Lab Batch ID: 786278 **Sample:** 545849-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0 1000	0 1090	109	0 1	0 1089	109	0	70-130	35	
Toluene	ND	0 1000	0 1122	112	0 1	0 1122	112	0	70-130	35	
Ethylbenzene	ND	0 1000	0 1081	108	0 1	0 1079	108	0	71-129	35	
m,p-Xylenes	ND	0 2000	0 2399	120	0 2	0 2402	120	0	70-135	35	
o-Xylene	ND	0 1000	0 1192	119	0 1	0 1188	119	0	71-133	35	

Analyst: LATCOR **Date Prepared:** 12/16/2009 **Date Analyzed:** 12/16/2009

Lab Batch ID: 786005 **Sample:** 786005-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by EPA 418.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	2500	2610	104	2500	2750	110	5	65-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

XENCO Laboratories

Form 3 - MS Recoveries

Project Name: XTO / ESMU - Satellite - 8

Work Order #: 355229
Lab Batch #: 785471
Project ID: 8-0148
Date Analyzed: 12/11/2009
Date Prepared: 12/11/2009
Analyst: LATCOR
QC- Sample ID: 355331-002 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	170	220	387	99	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: XTO / ESMU - Satellite - 8

Work Order # : 355229 **Project ID:** 8-0148

Lab Batch ID: 786278 **QC- Sample ID:** 355585-006 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/18/2009 **Date Prepared:** 12/17/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0 1214	0 1066	88	0 1214	0 0948	78	12	70-130	35	
Toluene	ND	0 1214	0 1080	89	0 1214	0 0938	77	14	70-130	35	
Ethylbenzene	ND	0 1214	0 1002	83	0 1214	0 0870	72	14	71-129	35	
m,p-Xylenes	ND	0 2427	0 2181	90	0 2427	0 1543	64	34	70-135	35	X
o-Xylene	ND	0 1214	0 1050	86	0 1214	0 0912	75	14	71-133	35	

Lab Batch ID: 786005 **QC- Sample ID:** 355229-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/16/2009 **Date Prepared:** 12/16/2009 **Analyst:** LATCOR

Reporting Units: mg/kg

TPH by EPA 418.1 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	96 7	2830	2940	100	2830	3020	103	3	65-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

Sample Duplicate Recovery

ACCREDITED IN ACCORDANCE WITH nelac

Project Name: XTO / ESMU - Satellite - 8

Work Order #: 355229

Lab Batch #: 785471 **Project ID:** 8-0148

Date Analyzed: 12/11/2009 **Date Prepared:** 12/11/2009 **Analyst:** LATCOR

QC- Sample ID: 355331-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	170	148	14	20	

Lab Batch #: 785465

Date Analyzed: 12/11/2009 **Date Prepared:** 12/11/2009 **Analyst:** WRU

QC- Sample ID: 355229-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11 7	12 4	6	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes
BRL - Below Reporting Limit

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to: M. Green

DATE: 12-10-09 PAGE 1 OF 1
PO #:
LAB WORK ORDER #:
PROJECT LOCATION OR NAME: XTO/ESMU - Satellite-8
LAI PROJECT #: 8-0148 COLLECTOR: D. McGinnis

TRRP report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE: Time zone/State: MST

355229

ANALYSES: BTEX (circled) ☐ MTBE ☐ TPH 418.1 (circled) ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBS ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE (circled) ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	Analyses	FIELD NOTES
Satellite-8 Pit Bottom	01	12-10	0940	S	2				X		✓ BTEX, ✓ TPH 418.1, ✓ CHLORIDE	
TOTAL												

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	12-11-09 / 0923	Andrea [signature]
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 4.1 THERM #: A7
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☑ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Larson & Assoc.

Date/ Time: 12.11.09 9:23

Lab ID # : 355229

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.1 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

10 - 1 - 2378

1RP-~~09-12~~

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JAN 08 2010

HOBBSOCD

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: XTO Energy Permian Division – SE New Mexico	Contact: Rick Wilson/Production Foreman
Address: P.O. Box 700, Eunice, New Mexico 88231	Telephone No.: (575) 394-2089
Facility Name: EMSU – Satellite No. 8	Facility Type: Tank Battery – Nearest Well is EMSU #293 (API #30-025-04539)

Surface Owner: State of New Mexico	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
I	7	21S	36E					Lea

Latitude: N 32° 29' 37.02" Longitude: W 103° 17' 51.66"

NATURE OF RELEASE

Type of Release: Crude Oil and Water	Volume of Release: Unknown	Volume Recovered: N/A
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: Unknown
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Below grade tank removed per OCD approved closure plan. Initial composite sample (5-spot) from bottom of tank excavation shows evidence of a release. TPH was detected at 96.7ppm below the reporting limit of 100 ppm. Propose to close with clean soil.

Describe Area Affected and Cleanup Action Taken.* No cleanup action was taken at this time; the TPH was below reporting limit (100 ppm). XTO request to close tank excavation per OCD approved closure plan.

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: [signature]	OIL CONSERVATION DIVISION [signature]
Printed Name: Guy Haykus – XTO Energy	Approved by District Supervisor: ENVIRONMENTAL ENGINEER
Title: Production Superintendent	Approval Date: 1-6-10 Expiration Date: -
E-mail Address: William_haykus@xtoenergy.com	Conditions of Approval: Attached ☐ 1RP 10-1-2378
Date: 12/21/2009 Phone: (432) 682-8873	

* Attach Additional Sheets If Necessary

10-1-2378

1RP-09~~-12~~-

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JAN 08 2010

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Signature: W H Haykus	OIL CONSERVATION DIVISION
Printed Name: Guy Haykus – XTO Energy	Approved by District Supervisor: Johnson ENVIRONMENTAL ENGINEER
Title: Production Superintendent	Approval Date: 1-6-10 Expiration Date: —
E-mail Address: William_haykus@xtoenergy.com	Conditions of Approval: Attached ☐
Date: 12/21/2009 Phone: (432) 682-8873	1RP# 10-1-2378

* Attach Additional Sheets If Necessary