

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

30-045-06695 **OPERATOR** ☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: James McDaniel
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701
Facility Name: P O Pipken #1 (30-045-06695)	Facility Type: Gas Well (Dakota)

Surface Owner: Federal	Mineral Owner:	Lease No.:
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LOCATION OF RELEASE

Unit Letter H	Section 8	Township 27N	Range 10W	Feet from the 1650	North/South Line FNL	Feet from the 790	East/West Line FEL	County San Juan
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Latitude: 36.5925 Longitude: -107.9126

NATURE OF RELEASE

Type of Release: Historical	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Historical Earthen Pit	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: 10/1/2010
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		RCVD OCT 21 '10 OIL CONS. DIV. DIST. 3

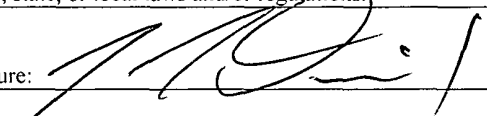
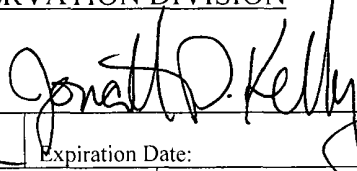
Describe Cause of Problem and Remedial Action Taken.*

On October 1, 2010, discolored soil was found during maintenance activities at the PO Pipken #1 well site. The site was ranked a 20 according to the Guidelines for the Remediation of Leaks, Spills and Releases due to an estimated depth to groundwater of less than 100 feet, and a wash at a distance of less than 1,000 feet from the spill site. The closure standards for this site were then determined to be 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. A sample was collected of the impacted soil, as well as a sample at 14 feet BGS, where sandstone was encountered. The impacted soil was found to be above the 100 ppm TPH standards, requiring the impacted soil to be removed.

Describe Area Affected and Cleanup Action Taken.*

On October 5, 2010 through October 5, 2010, approximately 180 cubic yards of impacted soil was removed. Composite samples were then collected from each of the four (4) walls of the excavated area to be analyzed for TPH via USEPA Method 8015, and for benzene and BTEX via USEPA Method 8021. All four (4) samples returned results below the regulatory standards determined for this site. Maximum reasonable extent was reached at 14 feet below ground surface due to sandstone being encountered at this depth. Analytical results are attached for your reference. All impacted soil was disposed of at Envirotech's Landfarm #2, and clean backfill was brought in from Four Corners Material to match the natural soil type.

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: 		OIL CONSERVATION DIVISION	
Printed Name: James McDaniel		Approved by District Supervisor: 	
Title: EH&S Specialist		Approval Date: <u>1/31/2012</u>	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/18/2010	Phone: 505-333-3701		

nJK1203130992



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

October 13, 2010

Date Received : October 05, 2010
Description : Po Pipkin
Sample ID : FLOOR AT 14FT BGS
Collected By : J. Kirhner
Collection Date : 10/01/10 16:00

ESC Sample # : L482161-06

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.8		%	2540G	10/06/10	1
Benzene	BDL	0.026	mg/kg	8021/8015	10/05/10	50
Toluene	BDL	0.26	mg/kg	8021/8015	10/05/10	50
Ethylbenzene	1.0	0.026	mg/kg	8021/8015	10/05/10	50
Total Xylene	6.7	0.079	mg/kg	8021/8015	10/05/10	50
TPH (GC/FID) Low Fraction	240	5.3	mg/kg	GRO	10/05/10	50
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	94.3		% Rec.	8021/8015	10/05/10	50
a,a,a-Trifluorotoluene (PID)	99.3		% Rec.	8021/8015	10/05/10	50
TPH (GC/FID) High Fraction	690	84.	mg/kg	3546/DRO	10/07/10	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	10/07/10	20

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 10/13/10 09:10 Printed: 10/13/10 09:10



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	XTO	Project #:	98031-0528
Sample ID:	W Wall	Date Reported:	10-06-10
Laboratory Number:	56058	Date Sampled:	10-05-10
Chain of Custody No:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Extracted:	10-06-10
Preservative:	Cool	Date Analyzed:	10-06-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **P.O. Pipkin**

Analyst

Review



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	XTO	Project #:	98031-0528
Sample ID:	N Wall	Date Reported:	10-06-10
Laboratory Number:	56059	Date Sampled:	10-05-10
Chain of Custody No:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Extracted:	10-06-10
Preservative:	Cool	Date Analyzed:	10-06-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **P.O. Pipkin**

Analyst

Review



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	XTO	Project #:	98031-0528
Sample ID:	S Wall	Date Reported:	10-06-10
Laboratory Number:	56060	Date Sampled:	10-05-10
Chain of Custody No:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Extracted:	10-06-10
Preservative:	Cool	Date Analyzed:	10-06-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **P.O. Pipkin**

Analyst

Review



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

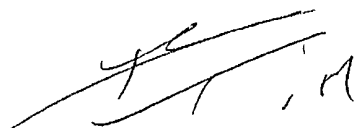
Client:	XTO	Project #:	98031-0528
Sample ID:	E Wall	Date Reported:	10-06-10
Laboratory Number:	56061	Date Sampled:	10-05-10
Chain of Custody No:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Extracted:	10-06-10
Preservative:	Cool	Date Analyzed:	10-06-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

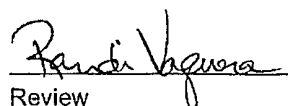
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **P.O. Pipkin**



Analyst



Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-06-10 QA/QC	Date Reported:	10-06-10
Laboratory Number:	56058	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-06-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	10-06-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	10-06-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike/Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	258	103%	75 - 125%
Diesel Range C10 - C28	ND	250	263	105%	75 - 125%

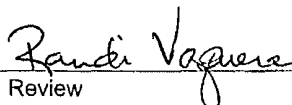
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 56058-56061, 56076



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	W Wall	Date Reported:	10-06-10
Laboratory Number:	56058	Date Sampled:	10-05-10
Chain of Custody:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Analyzed:	10-06-10
Preservative:	Cool	Date Extracted:	10-06-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	102 %
	1,4-difluorobenzene	106 %
	Bromochlorobenzene	97.0 %

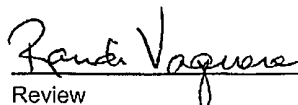
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: P.O. Pipkin



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	N Wall	Date Reported:	10-06-10
Laboratory Number:	56059	Date Sampled:	10-05-10
Chain of Custody:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Analyzed:	10-06-10
Preservative:	Cool	Date Extracted:	10-06-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	101 %
	1,4-difluorobenzene	104 %
	Bromochlorobenzene	102 %

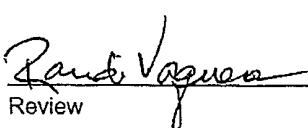
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: P.O. Pipkin



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	S Wall	Date Reported:	10-06-10
Laboratory Number:	56060	Date Sampled:	10-05-10
Chain of Custody:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Analyzed:	10-06-10
Preservative:	Cool	Date Extracted:	10-06-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	5.7	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	8.5	1.2
o-Xylene	1.2	0.9
Total BTEX	15.4	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.7 %
	1,4-difluorobenzene	101 %
	Bromochlorobenzene	101 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: P.O. Pipkin


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	E Wall	Date Reported:	10-06-10
Laboratory Number:	56061	Date Sampled:	10-05-10
Chain of Custody:	10452	Date Received:	10-05-10
Sample Matrix:	Soil	Date Analyzed:	10-06-10
Preservative:	Cool	Date Extracted:	10-06-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	


ND - Parameter not detected at the stated detection limit.

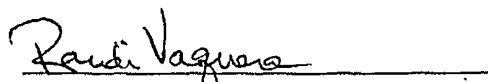
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.2 %
	1,4-difluorobenzene	97.7 %
	Bromochlorobenzene	101 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: P.O. Pipkin


Analyst


Review



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	1006BBLK QA/QC	Date Reported:	10-06-10
Laboratory Number:	56058	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-06-10
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	G-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range	0 - 15%		
Benzene	2.7749E+006	2.7805E+006	0.2%	ND	0.1
Toluene	8.9393E+005	8.9572E+005	0.2%	ND	0.1
Ethylbenzene	7.8415E+005	7.8572E+005	0.2%	ND	0.1
p,m-Xylene	1.6651E+006	1.6684E+006	0.2%	ND	0.1
o-Xylene	6.4939E+005	6.5069E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	%Recovery	Accept Range
Benzene	ND	500	502	100%	39 - 150
Toluene	ND	500	503	101%	46 - 148
Ethylbenzene	ND	500	485	96.9%	32 - 160
p,m-Xylene	ND	1000	989	98.9%	46 - 148
o-Xylene	ND	500	501	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 56058-56062, 56064, 56076**

Analyst

Review

CHAIN OF CUSTODY RECORD

10452 **RUSH**

Client: XTO			Project Name / Location: P.O. PIPKIN				ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: J KIRCHNER				<div style="display: flex; justify-content: space-between;"> <div> X TPH (Method 8015) X BTEX (Method 8021) VOC (Method 8260) RCRA 8 Metals Cation / Anion RCI TCLP with H/P PAH TPH (418.1) CHLORIDE </div> <div> Sample Cool Sample Intact </div> </div>													
Client Phone No.:			Client No.: 98031-0528																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
W WALL	10-5-10	1234	56058	Soil Solid	402			✓	✓									✓	✓	
N WALL		1242	56059	Soil Solid				✓	✓									✓	✓	
S WALL		1306	56060	Soil Solid				✓	✓									✓	✓	
E WALL		1324	56061	Soil Solid				✓	✓									✓	✓	
				Soil Solid																
				Soil Solid																
				Soil Solid																
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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-5-10	1400		10/5/10	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

RUSH !!



envirotech
Analytical Laboratory

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