

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, Inc.	Contact: James McDaniel	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701	
Facility Name: Ohio C Government #3 (30-045-07125)	Facility Type: Gas Well (Dakota)	
Surface Owner: Federal	Mineral Owner:	Lease No.:

#### LOCATION OF RELEASE

Unit Letter P	Section 26	Township 28N	Range 11W	Feet from the 1190	North/South Line FSL	Feet from the 990	East/West Line FEL	County San Juan
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Latitude: 36.62905 Longitude: -107.96760

RCVD JUL 22 '10  
OIL CONSERV.  
DIV.

#### NATURE OF RELEASE

Type of Release: Condensate/Oil	Volume of Release: 147 BBLs	Volume Recovered: None
Source of Release: Broken Valve on a Production Tank	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: November 29, 2008
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell	
By Whom? Kim Champlin	Date and Hour: November 30, 2008	
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.\*

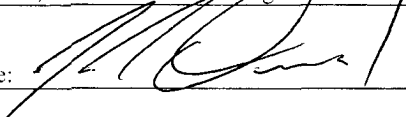

Describe Cause of Problem and Remedial Action Taken.\*

On November 29, 2008, an XTO employee notice that a valve had broken on the production tank at the Ohio C Government #3 wellsite. It was estimated that 147 bbls of oil and water were released into the soil around the tank, with none being recovered. Due to a wash at less than 1,000 feet from the location, and a depth to groundwater of less than 50 feet, the site was ranked a 30 pursuant to the NMOCD Guidelines for the remediation of Leaks, Spills and Releases. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. Impacted soils were removed and replaced with clean fill under the direction of the OCD and the BLM.

Describe Area Affected and Cleanup Action Taken.\*

Approximately 13,652 cubic yards of impacted soil was removed from the wellsite and hauled to Envirotech's Landfarm for disposal. Backfill was hauled in from the Moss Pit. XTO is currently working closely with the BLM to reclaim the area in a matter approved by the BLM. Please reference the attached report from LT Environmental documenting on-site activities, sampling locations, sample results and project conclusions.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: James McDaniel	Approved by District Supervisor:  For: CP	
Title: EH&S Specialist	Approval Date: 9/21/10	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/22/2010	Phone: 505-333-3701	

nBP1026447844

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# **EXCAVATION REPORT**

**OHIO C GOVERNMENT #3**

**SAN JUAN COUNTY, NEW MEXICO**

**July 14, 2010**

**Prepared for:**

**XTO ENERGY, INC**



**EXCAVATION REPORT**  
**OHIO C GOVERNMENT #3**  
**SAN JUAN COUNTY, NEW MEXICO**

**July 14, 2010**

**Prepared for:**

**XTO ENERGY, INC**  
**382 CR 3100**  
**Aztec, NM 87410**

**Prepared by:**

**LT ENVIRONMENTAL, INC.**  
**2243 Main Avenue, Suite 3**  
**Durango, Colorado 81301**  
**(970) 385-1096**



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## EXECUTIVE SUMMARY

This report was prepared by LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc (XTO), to document remediation activities at the Ohio C Government #3 (Site). The Site is located in Unit P of Section 26 within Township 28 North and Range 11 West in San Juan County, New Mexico.

The scope of work for this project included mitigation of hydrocarbon impacts following a release of oil and produced water from an above ground storage tank at the Site. Soil impacted by the recent release was removed and disposed of, along with historically impacted soil encountered in the subsurface. As the excavation progressed laterally, at least three additional sources were identified, including a former earthen pit and two abandoned below ground pipelines. The perimeter of the final excavation was approximately 60,500 square yards. The excavation advanced to an average depth of 15 feet below ground surface. In the deepest portions of the excavation (19 feet below ground surface), groundwater was encountered. A vacuum truck was used to remove and dispose of impacted groundwater that pooled within the open excavation. Multiple groundwater pumping events served to flush groundwater through impacted soil. These activities contributed to overall remediation at the Site. A total of 13,652 cubic yards of impacted soil were excavated and transported to the Envirotech Landfarm in Hilltop, New Mexico for disposal. Analytical results from soil confirmation samples indicated that the walls and floor of the excavation were remediated to below New Mexico Oil Conservation Division (NMOCD) standards, except on the southwest side. Concentrations of total petroleum hydrocarbons were above the 100 milligrams per kilogram (mg/Kg) standard, but the NMOCD and Bureau of Land Management (BLM) permitted XTO to leave impacted soil in place on a risk-based closure. Analytical results from groundwater samples collected from the open excavation were below New Mexico Water Quality Control Commission standard for benzene, toluene, ethylbenzene, and total xylenes.



## **SECTION 1.0**

### **INTRODUCTION**

This report was prepared by LT Environmental, Inc. (LTE) for XTO Energy, Incorporated (XTO) to document excavation activities at the Ohio C Government #3 (Site). The purpose of this project was to remove hydrocarbon-impacted soils from the Site and investigate potential impacts to groundwater.

#### **1.1 SITE DESCRIPTION**

The Ohio C Government #3 is located in Unit P of Section 26 within Township 28 North and Range 11 West in San Juan County, New Mexico. The Site is situated within the Kutz Canyon arroyo of the San Juan River Drainage Basin. It is approximately 950 feet south of Kutz Wash (Figure 1). Site geology is identified as Quaternary alluvium overlying the Nacimiento Formation and Ojo Alamo Sandstone. Shallow soils are composed of wind-blown alluvium, which are weathered from shale. Depth to groundwater at the site is less than 50 feet below ground surface (bgs), based on observations of groundwater pooling in the open excavation.

#### **1.2 SITE HISTORY**

On November 29, 2009, an XTO employee noticed that a drain valve on a production tank at the Ohio C Government #3 had broken. An estimated 127 barrels of oil and 20 barrels of produced water were released into an earthen-berm containment. All of the fluids were absorbed into the ground and could not be recovered. XTO responded immediately and scheduled excavation to start on December 2, 2009. XTO contracted LTE to oversee the excavation and collect confirmation samples for closure.

#### **1.3 SCOPE OF WORK**

The scope of work for this remediation project included removal of impacted soil. Impacted soil was transported off site to the Envirotech Landfarm and replaced with clean fill from the Moss Pit. During onsite activities, LTE personnel conducted excavation oversight, collected soil and groundwater samples, field screened samples to segregate clean from impacted soils, monitored health and safety, and documented field activities. A summary of field work, analytical results from soil sampling, and conclusions are presented in the subsequent sections of this report.



## SECTION 2.0

### SUMMARY OF FIELD ACTIVITIES

#### 2.1 EXCAVATION ACTIVITIES

##### 2.1.1 Impacted Soil Removal

Excavation activities began on December 2, 2009. During the period from December 2, 2009 to May 4, 2010, XTO contractors removed impacted soil. An LTE geologist noted evidence of impact beginning immediately beneath the ground surface and extending to an average depth of 15 feet. While excavating the initial release, soil impacted by other historical releases were identified and removed. Additional sources included a former earthen pit and two abandoned below ground pipelines.

During the excavation, LTE personnel conducted field screening of organic vapor concentrations with a photoionization detector (PID) according to New Mexico Oil Conservation Division (NMOCD) headspace techniques. LTE also collected confirmation samples of the sidewalls and floor of the excavation to document excavation activities. LTE was not on site from February 6, 2010 through April 14, 2010. During this time period, XTO conducted field screening and collected all soil samples.

As the excavation expanded and additional subsurface historical sources were identified, soil removal extended to areas off of the well pad and into natural vegetation, particularly on the south and west sides of the Site (Figure 2). XTO received permission from the Bureau of Land Management (BLM) to work in undisturbed areas and contracted an archaeologist to conduct surface surveys prior to soil removal. Due to the duration and large size of the excavation, XTO worked with the BLM and NMOCD to subdivide the excavation and allow for backfilling portions shown to be clean prior to moving forward with additional soil removal. This strategy provided a larger and safer area for equipment operators to work.

The final dimensions of the excavation were approximately 360 feet long by 168 feet wide and the total depth of the excavation ranged from 12 to 19 feet bgs. A total estimated volume of 39,600 cubic yards was excavated. Of that, 13,652 cubic yards of impacted soil were transported to the Envirotech Landfarm in Hilltop, New Mexico. The remainder was clean overburden that was used to backfill the excavation.

Confirmation samples were collected for submittal to an analytical laboratory. Figure 2 presents the excavation extent and the location of final composite soil samples collected from the sidewalls and floor of the excavation. Composite soil samples were collected by depositing five aliquots of soil into plastic bags, thoroughly mixing the contents and sampling into 4-ounce glass jars. Samples were stored on ice and dropped off at Envirotech in Bloomfield, New Mexico or shipped to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico following strict chain-of-custody procedures. The soil samples were analyzed for benzene, toluene, ethylbenzene and total





xylenes (BTEX) by U.S. Environmental Protection Agency (USEPA) Method 8021, as well as total petroleum hydrocarbons (TPH) by USEPA Method 8015.

### **2.1.2 Impacted Groundwater Removal**

Approximately 5,555 barrels of impacted groundwater were pumped and transferred by Roberts Trucking to Basin Disposal SWD #1. Groundwater that pooled within the excavation was sampled for BTEX multiple times by collecting a grab sample in a decontaminated pitcher or bailer and immediately filling three pre-cleaned and pre-preserved 40-milliliter (ml) glass vials with zero headspace to prevent degradation of the sample. The groundwater samples were shipped on ice to HEAL and analyzed for BTEX according to USEPA Method 8021B.



## SECTION 3.0

### ANALYTICAL RESULTS

Results from laboratory testing of all soil samples collected during the excavation are listed on Table 1. Locations of soil samples collected for site closure are shown in Figure 2. Complete laboratory reports are included in Appendix A. Final laboratory analyses indicate that TPH and BTEX concentrations in soils from the sidewalls and floor of the excavation were beneath NMOCD standards for sites where groundwater is less than 50 feet deep, except on the southwest sidewall. TPH concentrations in two closure samples exceeded 100 milligrams per kilogram (mg/Kg). The South Wall 3 composite sample contained a TPH concentration of 228.1 mg/Kg. The SW Wall Comp. sample contained 192.4 mg/Kg of TPH. The floor of the excavation beneath these areas and groundwater pooling within the West Pool were shown to be below applicable regulatory standards.

Groundwater sampling results are presented in Table 2, and sample locations are shown in Figure 2. Laboratory reports can be found in Appendix B. The final groundwater samples collected from each pool in the excavation was below NMWQCC standards for benzene, toluene, ethylbenzene, and total xylenes.



## **SECTION 4.0**

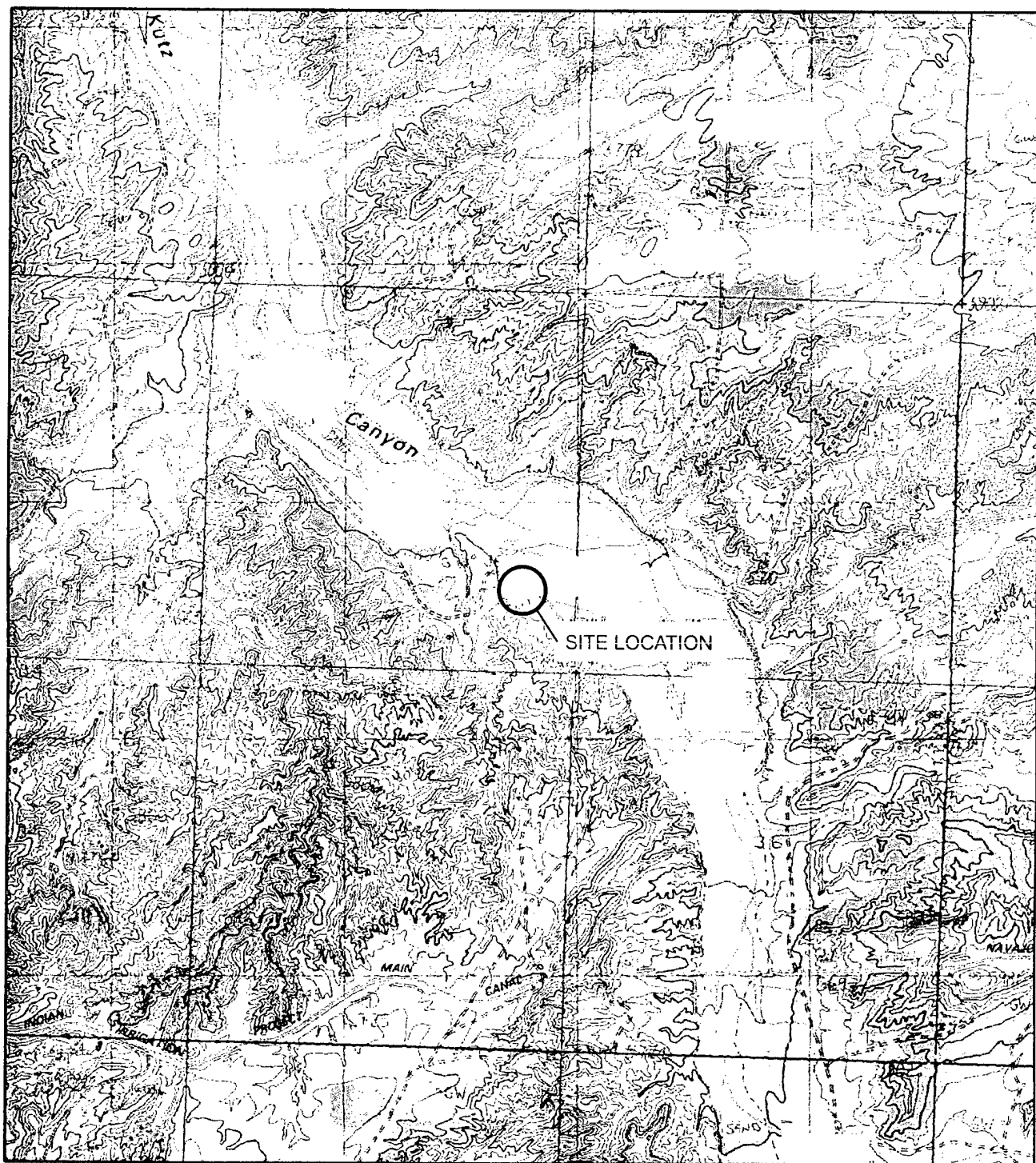
### **SUMMARY AND CONCLUSIONS**

A total of 39,600 cubic yards of soil were excavated from the Site. Of those yards, 13,652 cubic yards were impacted by both the recent release and by historical releases identified in the subsurface. Impacted soil was transported to the Envirotech Landfarm in Hilltop, New Mexico for disposal. XTO worked with the NMOCD to gain approval to backfill the excavation as progress was made towards ultimate removal of all impacted soil. Except for the southwest wall, confirmation soil samples from the sidewalls and floor of the excavation were below NMOCD standards for BTEX and TPH concentrations. As part of a risk-based closure, the NMOCD and BLM allowed XTO to leave impacted soils in place on the southwest wall, since soils collected from the floor of the excavation and groundwater from the West Pool were shown to be beneath standards for contaminants. A vacuum truck collected 5,555 barrels of impacted groundwater, which was transported to Basin Disposal SWD #1 for proper disposal. BTEX concentrations in samples collected from three areas of pooling groundwater generally decreased during the course of the field work, and final closure samples were below NMWQCC standards.



## FIGURES





LEGEND

○ SITE LOCATION

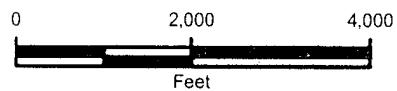


FIGURE 1  
SITE LOCATION MAP  
OHIO GOVERNMENT C #3  
SAN JUAN COUNTY, NEW MEXICO  
XTO ENERGY, INC.



# LEGEND

BTEX Benzene, Toluene, Ethylbenzene and Total Xylenes

TPH Total Petroleum Hydrocarbons

mg/Kg Milligrams per Kilogram

ug/L Micrograms per Liter

--- Delineates Sub-Areas Sampled and Approved for Backfilling

--- Delineates Former Excavation of Unlined Earthen Pits

--- Delineates Original Bermed Containment Area

--- Distinguishes Graded Well Pad from Natural Vegetation

--- Areas of Groundwater Infill

Note: Locations and Results for Soil and Groundwater Sampling are Shown for Closure Samples Only



06/2010

FIGURE 2  
EXCAVATION SITE MAP  
OHIO GOVERNMENT #3  
XTO ENERGY, INC.

Kutz Wash  
~950 feet

Natural Vegetation

Access Road

North Wall Composite  
4/14/2010  
TPH = 10 mg/Kg  
BTEX = Not Detected

West/North Wall Composite  
4/23/2010  
TPH = 25.2 mg/Kg  
BTEX = 8.978 mg/Kg

South Wall 3  
03/16/2010  
TPH = 228.1 mg/Kg  
BTEX = 0.315 mg/Kg

Around Wall Composite  
4/29/2010  
TPH = 34.4 mg/Kg  
BTEX = 0.221 mg/Kg

Northeast Section Composite  
4/23/2010  
TPH = 5.2 mg/Kg  
BTEX = 0.680 mg/Kg

Floor Composite S2  
5/4/2010  
TPH = Not Detected  
BTEX = Not Detected

Floor Composite S3  
5/4/2010  
TPH = Not Detected  
BTEX = Not Detected

Floor Composite S4  
5/4/2010  
TPH = 24.8 mg/Kg  
BTEX = Not Detected

Floor Composite S5  
5/4/2010  
TPH = Not Detected  
BTEX = Not Detected

East / South Wall Composite  
4/30/2010  
TPH = 88.1 mg/Kg  
BTEX = Not Detected

SW Wall Comp.  
03/16/2010  
TPH = 192.4 mg/Kg  
BTEX = 0.243 mg/Kg

West GW  
03/16/2010  
Benzene = 0.9 ug/L  
Toluene = 13.1 ug/L  
Ethylbenzene = 3.4 ug/L  
Total Xylenes = 62.2 ug/L

W. Bottom Comp.  
04/08/2010  
TPH = Not Detected  
BTEX = Not Detected

South Wall Composite  
1/18/2010  
TPH = 17.80 mg/Kg  
BTEX = 0.194 mg/Kg

Middle GW  
03/16/2010  
Benzene = 1.0 ug/L  
Toluene = 1.2 ug/L  
Ethylbenzene = 2.2 ug/L  
Total Xylenes = 35.3 ug/L

Re-Sample GW E. End  
02/16/2010  
Benzene = 7.9 ug/L  
Toluene = 116 ug/L  
Ethylbenzene = 6.8 ug/L  
Total Xylenes = 130.9 ug/L

South Wall Composite  
12/4/2009  
TPH = Not Detected  
BTEX = Not Detected

East Wall Composite  
12/4/2009  
TPH = Not Detected  
BTEX = Not Detected

North Wall Composite  
12/4/2009  
TPH = Not Detected  
BTEX = Not Detected

Excavation Perimeter

Original Bermed Area

Former Excavation

East Pool

Middle Pool

West Pool

Abandoned Pipeline

Hillside and Natural Vegetation

0 50 100 FT.

↑

## TABLES





**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**OHIO C GOVERNMENT #3**  
**XTO ENERGY, INC**

Sample ID (Depth in feet)	Date Sampled	Field Screening Results (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO (mg/kg)
West Wall Composite	12/3/2009	12	<0.050	<0.050	<0.050	<0.10	110	220	<5.0
*East Wall Composite	12/4/2009	26	<0.050	<0.050	<0.050	<0.10	<10.0	<50.0	<5.0
*North Wall Composite	12/4/2009	88	<0.050	<0.050	<0.050	<0.10	<10.0	<50.0	<5.0
*South Wall Composite	12/4/2009	101	<0.050	<0.050	<0.050	<0.10	<10.0	<50.0	<5.0
Under South Line	12/15/2009	227.6	<0.10	<0.10	<0.10	0.51	130	69	<10
Under North Line	12/15/2009	54	<0.10	<0.10	<0.10	<0.20	67	62	<10
*South Wall Composite	1/18/2010	93	0.0032	0.0102	0.0182	0.1525	15.8	NA	2.00
West Wall Composite	1/18/2010	98	0.0059	0.0872	0.0967	1.416	290	NA	64.3
*South West Wall Composite	2/5/2010	679	0.0185	1.0100	0.4480	6.0700	305	NA	136
NW Test Hole	2/16/2010		0.121	13.600	4.770	75.100	1730	NA	1910
SW Wall Comp	3/16/2010		0.0026	0.0072	0.1200	0.1129	186	NA	6.4
South Wall 3	3/16/2010		0.0057	0.0173	0.0187	0.2735	216	NA	12.1
North Wall 3	3/16/2010		0.0034	0.0244	0.0421	0.6130	331	NA	36.3
*West Wall 3	3/16/2010		0.0158	0.2390	0.3070	5.2100	1140	NA	181
E. Bottom Comp	4/8/2010		<0.0009	<0.001	<0.001	<0.0021	<0.1	NA	<0.2
W. Bottom Comp	4/8/2010	415	<0.0009	<0.001	<0.001	<0.0021	<0.1	NA	<0.2
Middle of N. Wall	4/8/2010	150.0	0.0333	0.2110	0.7610	6.7000	672	NA	307
*North Wall Composite	4/14/2010	1.1	<0.0009	<0.001	<0.001	<0.0021	10	NA	<0.2
North Wall	4/14/2010		<0.0009	<0.001	<0.001	<0.0021	16.6	NA	<0.2
*West/North Wall Composite	4/23/2010	180	0.0148	0.4080	4.2300	4.3270	<0.1	NA	25.2
Floor Composite	4/23/2010	24.7	0.0010	0.0086	0.0037	0.0129	<0.1	NA	<0.2
*Northeast Section Composite	4/23/2010	4.0	<0.0009	0.0406	0.0428	0.5970	<0.1	NA	5.2
*Around Well Composite	4/29/2010	120	0.0014	0.0246	0.0046	0.1952	31.4	NA	3.0
*East/South Composite	4/30/2010	29	<0.0009	<0.001	<0.001	<0.0021	88.1	NA	<0.2
*Floor Comp S1	5/4/2010	5.3	<0.0009	<0.001	<0.001	<0.0021	<0.1	NA	<0.2
*Floor Comp S2	5/4/2010	10.2	<0.0009	<0.001	<0.001	<0.0021	<0.1	NA	<0.2
*Floor Comp S3	5/4/2010	11	<0.0009	<0.001	<0.001	<0.0021	<0.1	NA	<0.2
*Floor Comp S4	5/4/2010	7.7	<0.0009	<0.001	<0.001	<0.0021	24.8	NA	<0.2
*Flood Comp S5	5/4/2010	21	<0.0009	<0.001	<0.001	<0.0021	<0.1	NA	<0.2
<b>NMOCD Standard</b>			<b>10</b>			<b>Combined to 100</b>			

**Notes:**  
ppm - parts per million  
mg/kg - milligrams per kilogram  
< indicates result is less than the stated laboratory method detection limit  
DRO - Diesel Range Organics  
MRO - Motor Oil Range Organics  
GRO - Gasoline Range Organics  
NA - Not analyzed  
NMOCD - New Mexico Oil Conservation Commission  
DRO, MRO and GRO analyzed by EPA Modified Method 8015  
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8021  
**Bold font indicates values exceeding NMOCD standard**  
\* - Indicates final confirmation sample  
Missing field screening data represents a time period when LTE was not on site for excavation oversight. XTO collected soil samples during this time



TABLE 2

**GROUNDWATER ANALYTICAL RESULTS**  
**OHIO C GOVERNMENT #3**  
**XTO ENERGY, INC**

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<i>East Pool</i>					
Excavation GW	12/3/2009	1460	6080	693	6440
Excavation GW	12/10/2009	200	880	45	1100
Excavation GW	1/12/2010	15.2	336	39.6	831
Excavation GW	1/15/2010	24	408	34.9	809
E. Groundwater Sample	2/2/2010	27.1	315	20.0	683
G.W. E. End	2/11/2010	12.6	160	10.8	262.6
Re-Sample GW E. End	2/15/2010	2	37.9	4.2	62.7
*Re-Sample GW E. End	2/16/2010	7.9	116	6.8	130.9
<i>Middle Pool</i>					
GW Middle	2/17/2010	110	521	108	1373
Re-Sample GW Middle	2/19/2010	106	246	23.6	707
Re-Sample GW Middle	2/23/2010	121	104	13.9	761
Re-Sample GW Middle	2/24/2010	83.5	74.7	18.9	631
Re-Sample GW Middle	3/9/2010	55.3	10.8	12.7	519.7
GW Middle Bell Hole	3/16/2010	58.6	6.1	19.9	453.1
Middle GW	3/16/2010	4.4	7.3	11.6	165
*Middle GW	3/19/2010	1.0	1.2	2.2	35.3
<i>West Pool</i>					
Excavation GW West Side	1/26/2010	307	3910	317	4870
GW West End	3/9/2010	1.1	3.1	1.3	31.8
*West GW	3/16/2010	0.9	13.1	3.4	82.2
<b>NMWQCC Standard</b>		10	750	750	620

**Notes:**

ug/L - micrograms per liter

NMWQCC - New Mexico Water Quality Control Commission

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8021

Bold font indicates values exceeding NMOC standards

\* - indicates final confirmation sample

LTE did not conduct excavation oversight from 02/06/2010 through 04/13/2010. Samples were collected by XTO.

**APPENDIX A**  
**SOIL LABORATORY REPORTS**

