

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

Form C-144
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOC District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOC District Office.

2009 NOV 25 PM 1 07

**Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application**

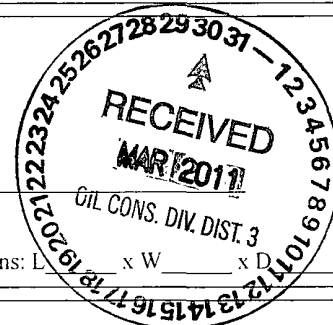
Type of action: ☒ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
Existing BGT ☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☒ Modification to an existing permit
☒ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1. Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: WILMUTH # 2
API Number: 30-045-26369 OCD Permit Number: _____
U/L or Qtr/Qtr N Section 26 Township 31N Range 11W County: San Juan
Center of Proposed Design: Latitude 36.86498 Longitude 107.9638 NAD: ☐ 1927 ☒ 1983
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2. ☐ **Pit:** Subsection F or G of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume _____ bbl Dimensions: L _____ x W _____ x D _____



3. ☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other _____
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____

4. ☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no liner
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

5. ☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.

Fencing: Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

- ☐ Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify: Four foot height, steel mesh field fence (hogwire) with pipe top railing

7.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☐ Screen ☐ Netting ☒ Other Expanded metal or solid vaulted top
- ☐ Monthly inspections (If netting or screening is not physically feasible)

8.

Signs: Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☒ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- ☐ Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

Groundwater is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site: Aerial photo; Satellite image	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site: Aerial photo, Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality: Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map. Topographic map, Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

11.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____

☐ Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H₂S. Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

Proposed Closure: 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Closed-loop System

☐ Alternative

Proposed Closure Method: ☒ Waste Excavation and Removal

☐ Waste Removal (Closed-loop systems only)

☐ On-site Closure Method (Only for temporary pits and closed-loop systems)

☐ In-place Burial ☐ On-site Trench Burial

☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is more than 100 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map, Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo, Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS, NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Kim Champlin Title: Environmental Representative

Signature: Kim Champlin Date: 11/21/08

e-mail address: kim_champlin@xtoenergy.com Telephone: (505) 333-3100

20.

OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: [Signature] Approval Date: 9/12/2011/24/10

Title: Environmental Engineer, Compliance Officer OCD Permit Number: _____

21.

Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ Closure Completion Date: March 17, 2011

22.

Closure Method:

☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

23.

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

- ☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☒ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
☐ Plot Plan (for on-site closures and temporary pits)
☒ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☒ Disposal Facility Name and Permit Number
☒ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique
☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

25.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): James McDaniel Title: EH&S Specialist

Signature: [Signature] Date: 3/28/11

e-mail address: James-McDaniel@xtoenergy.com Telephone: 333-3701

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Closure Plan
For Below-Grade Tanks

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1 XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2 XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3 XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:
 - Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
 - Soil contaminated by exempt petroleum hydrocarbons
 - Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes
 - Basin Disposal Permit No. NM01-005
 - Produced water
5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

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: Wilmuth #2 (30-045-26369)	Facility Type: Gas Well (Pictured Cliffs)

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

Unit Letter N	Section 26	Township 31N	Range 11W	Feet from the 900	North/South Line FSL	Feet from the 1510	East/West Line FWL	County San Juan
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Latitude: 36.8649 Longitude: -107.9638

NATURE OF RELEASE

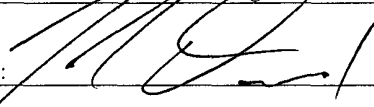
Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: NA
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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.*

Describe Cause of Problem and Remedial Action Taken.* ☐ The below grade tank was taken out of service at the Wilmuth #2 well site due to the plugging and abandoning of this well site. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 418.1 and 8015, benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for benzene and total BTEX, but above the total chloride standard of 250 ppm at 820 ppm, and above the 100 ppm TPH standard at 1,500 ppm via USEPA Method 418.1, confirming that a release has occurred at this location. The site was then ranked a 40 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to a depth to groundwater of less than 50 feet, and a distance to surface water of less than 200 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*
The NMOCD Guidelines for the Remediation of Leaks, Spills and Releases does not cite a standard for chlorides; however, a background sample collected upgradient of the well site in a nearby irrigated field returned results of 2,700 ppm in April of 2010. This high chloride results indicated that chlorides are naturally high in this area, due to the irrigation being performed on the fields surrounding the well site. TPH impacted soils were removed by excavation, and all remediation activities are outlined in the attached Spill Report completed by LT Environmental. In an on-site meeting with Brandon Powell and ConocoPhillips on March 16, 2011, it was determined that soils above the OCD closure standards near ConocoPhillips' equipment were not the responsibility of XTO Energy, but the responsibility of ConocoPhillips. XTO backfilled the excavated area from their release on March 17th, 2011. All analytical results are attached for your reference. Approximately 200 yards of impacted soils were removed, and disposed of at IEI's Landfarm.

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:	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com		Conditions of Approval:	
Date: 3/28/2011 Phone: 505-333-3701		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

XTO Energy Inc. San Juan Basin Below Grade Tank Closure Report

Lease Name: Wilmuth #2

API No.: 30-045-26369 •

Description: Unit N, Section 26, Township 31N, Range 11W, San Juan County

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

1. XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
Closure Date is March 17, 2011
2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
Closure Date is March 17, 2011
3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
Required C-144 Form is attached to this document.
4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:
 - Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
 - Soil contaminated by exempt petroleum hydrocarbons
 - Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes
 - Basin Disposal Permit No. NM01-005
 - Produced water**All liquids and sludge were removed from the tank prior to closure activities.**
5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
XTO has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.

6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

All equipment has been removed due to the plugging and abandoning of the Wilmuth #2 well site.

7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	0.0047 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	1.47 mg/kg
TPH	EPA SW-846 418.1	100	1,500 mg/kg
Chlorides	EPA 300.1	250 or background	820 mg/kg

8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.

Due to a total chloride results of 820 ppm, and a TPH result of 1,500 ppm, it has been determined that a release has occurred at this location. The site was then ranked a 40 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to a depth to groundwater of less than 50 feet, and a distance to surface water of less than 200 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. A background sample collected upgradient of the well site in a nearby irrigated field for chlorides returned results of 2,700 ppm in April of 2010, indicating that the soil in the area is naturally high in chlorides due to irrigation activities in the area. TPH impacted soils were removed to levels below regulatory standards as outlined in the attached LT Environmental cleanup report. In a meeting with Brandon Powell and ConocoPhillips on March 16, 2011, it was determined that remaining soils above the NMOCD cleanup levels were the responsibility of ConocoPhillips. XTO backfilled the location on March 17, 2011.

9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.

The pit cellar was backfilled using compacted, non-waste containing earthen material, with a division prescribed soil cover.

10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally.

The notification will include the following:

- i. Operator's name
- ii. Well Name and API Number
- iii. Location by Unit Letter, Section, Township, and Range

Notification was provided to Mr. Brandon Powell with the Aztec office of the OCD via email on December 16, 2010; see attached email printout.

The surface owner shall be notified of XTO's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.

The surface owner was notified on December 20, 2010; see attached letter and return receipt.

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
The location will continue to be used for oil and gas operation by ConocoPhillips for the Wilmuth #1 well site.
12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
The site has been backfilled to match these specifications.
13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.
The location will be reclaimed upon decommission of the additional well equipment utilized on location. Currently, ConocoPhillips is operating the Wilmuth #1 well site at this location.
14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - i. Proof of closure notice to division and surface owner; **attached**
 - ii. Details on capping and covering, where applicable; **per OCD Specifications**
 - iii. Inspection reports; **None Found**
 - iv. Confirmation sampling analytical results; **attached**
 - v. Disposal facility name(s) and permit number(s); **see above**
 - vi. Soil backfilling and cover installation; **per OCD Specifications**
 - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **Upon decommission of ConocoPhillips well site.**
 - viii. Photo documentation of the site reclamation. **NA**



James McDaniel /FAR/CTOC
12/16/2010 02:54 PM

To brandon.powell@state.nm.us

cc

bcc

Subject BGT Closure wilmuth #2

Brandon,

Please accept this email as the required closure notification for the BGT at the Wilmuth #2 well site (api #30-045-26369) located in Unit N, Section 26, Township 31N, Range 11W, San Juan County, New Mexico. We will be plugging this well site, so we will no longer be using the on-site BGT. Thank you very much for your time in regards to this matter.



James McDaniel
EH&S Specialist
XTO Energy, Inc.
Office # 505-433-3701
Cell # 505-707-0519



December 16, 2010

Mr. Dennis Barnes
Mr. Douglas Barnes
Mr. Duane Barnes
As Trustee's of Farmer's Trust Dated 2-29-2008
Box 1224
Aztec, New Mexico 87410

Re: Wilmoth #2
Unit N, Section 26, Township 31N, Range 11W, San Juan County, New Mexico

Dear Trustee's of Farmer's Trust,

This submittal is pursuant to Rule 19.15.17.13 requiring operators to notify surface owners of the closure of a below grade tank pit. XTO Energy, Inc. (XTO) is hereby providing written documentation of our proposal to close the below grade tank pit associated with the above mentioned well site by waste excavation and removal.

Should you have questions or require additional information, please feel free to contact me at your convenience at (505) 333-3100. Thank you for your time in regards to this matter.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "J. McDaniel".

James McDaniel
EH&S Specialist
XTO Energy, Inc.
San Juan Division

7010 0780 0001 6436 9376

U.S. Postal Service TM *Wilmoth #2*
CERTIFIED MAIL TM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)
 For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

FARMINGTON NM 87401
 Postmark
 2006
 10/10
James M

Sent To *Trustees of Farmer's Trust*
 Street, Apt. No.,
 or PO Box No. *P.O. Box 1224*
 City, State, ZIP+4 *Aztec, NM 87410*

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X <i>James M</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>DUANE BARRIS</i> C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><i>Trustees of Farmer's Trust</i> <i>P.O. Box 1224</i> <i>Aztec NM 87410</i></p> <p><i>James McDaniel</i></p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p> <p>7010 0780 0001 6436 9376</p>	



COVER LETTER

Wednesday, December 29, 2010

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519
FAX (505) 333-3280

RE: Wilmuth #2

Order No.: 1012838

Dear James McDaniel:


Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 12/21/2010 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 or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
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

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Dec-10

CLIENT: XTO Energy**Client Sample ID:** BGT Closure Comp.**Lab Order:** 1012838**Collection Date:** 12/16/2010 3:45:00 PM**Project:** Wilmuth #2**Date Received:** 12/21/2010**Lab ID:** 1012838-01**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	1500	100		mg/Kg	5	12/29/2010

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Wilmuth #2

Work Order: 1012838

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-25004		MBLK				Batch ID: 25004		Analysis Date:			12/29/2010
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-25004		LCS				Batch ID: 25004		Analysis Date:			12/29/2010
Petroleum Hydrocarbons, TR	96.90	mg/Kg	20	100	0	96.9	86.8	116			
Sample ID: LCSD-25004		LCSD				Batch ID: 25004		Analysis Date:			12/29/2010
Petroleum Hydrocarbons, TR	98.18	mg/Kg	20	100	0	98.2	86.8	116	1.31	16.2	

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **XTO ENERGY**

Date Received:

12/21/2010

Work Order Number **1012838**

Received by: **MMG**

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: **UPS**

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 checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Number of preserved bottles checked for pH:
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"/>	<2 >12 unless noted below.
Container/Temp Blank temperature?	2.5°	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est. 1970

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

Report Summary

Tuesday December 21, 2010

Report Number: L494413

Samples Received: 12/18/10

Client Project:

Description: Wilmuth 2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences

Note The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences
Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures. 060302, 060303, and 060304



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REPORT OF ANALYSIS

December 21, 2010

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

ESC Sample # : L494413-01

Date Received : December 18, 2010
Description : Wilmuth 2

Site ID : WILMUTH 2

Sample ID : BGT CLOSURE COMPOSITE

Project # :

Collected By : James McDaniel
Collection Date : 12/16/10 15:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.2		%	2540G	12/21/10	1
Benzene	0.0047	0.0029	mg/kg	8021/8015	12/19/10	5
Toluene	BDL	0.029	mg/kg	8021/8015	12/19/10	5
Ethylbenzene	0.17	0.0029	mg/kg	8021/8015	12/19/10	5
Total Xylene	1.3	0.0088	mg/kg	8021/8015	12/19/10	5
TPH (GC/FID) Low Fraction	680	12	mg/kg	GRO	12/20/10	100
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	88.3		% Rec.	8021/8015	12/20/10	100
a,a,a-Trifluorotoluene (PID)	102.		% Rec.	8021/8015	12/19/10	5
TPH (GC/FID) High Fraction	18.	4.7	mg/kg	3546/DRO	12/19/10	1
Surrogate recovery(%)						
o-Terphenyl	87.0		% Rec.	3546/DRO	12/19/10	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 12/21/10 15:16 Printed: 12/21/10 15:16



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REPORT OF ANALYSIS

December 21, 2010

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

Date Received : December 18, 2010
Description : Wilmuth 2
Sample ID : BGT CLOSURE COMPOSITE
Collected By : James McDaniel
Collection Date : 12/16/10 15:45

ESC Sample # : L494413-02

Site ID : WILMUTH 2

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	820	12.	mg/kg	9056	12/20/10	1
Total Solids	85.2		%	2540G	12/21/10	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 12/21/10 15:16 Printed: 12/21/10 15:16

Summary of Remarks For Samples Printed
12/21/10 at 15:16:31

TSR Signing Reports: 288
R2 - Rush: Next Day

Charge \$10.00 Shipping Fee on every project-DV 12-14-10

Sample: L494413-01 Account: XTORNM Received: 12/18/10 09:00 Due Date: 12/21/10 00:00 RPT Date: 12/21/10 15:16

Sample: L494413-02 Account: XTORNM Received: 12/18/10 09:00 Due Date: 12/22/10 00:00 RPT Date: 12/21/10 15:16
Transfer TS from -01



L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L494413

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I D 62-0814289

Est 1970

December 21, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< 0.005	mg/kg			WG514037	12/18/10 22:44
Ethylbenzene	< 0.005	mg/kg			WG514037	12/18/10 22:44
Toluene	< 0.05	mg/kg			WG514037	12/18/10 22:44
Total Xylene	< 0.015	mg/kg			WG514037	12/18/10 22:44
a,a,a-Trifluorotoluene (FID)		% Rec	97.14	59-128	WG514037	12/18/10 22:44
a,a,a-Trifluorotoluene (PID)		% Rec	101.3	54-144	WG514037	12/18/10 22:44
TPH (GC/FID) High Fraction	< 4	ppm			WG514013	12/19/10 09:53
o-Terphenyl		% Rec.	91.14	50-150	WG514013	12/19/10 09:53
Chloride	< 10	mg/kg			WG513995	12/20/10 10:52
TPH (GC/FID) Low Fraction	< 1	mg/kg			WG514168	12/20/10 14:42
a,a,a-Trifluorotoluene (FID)		% Rec	91.68	59-128	WG514168	12/20/10 14:42
Total Solids	< 1	%			WG514109	12/21/10 11:32

Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch
			Duplicate	RPD			
Chloride	mg/kg	50.0	48.0	3.68	20	L493582-01	WG513995
Chloride	mg/kg	730	720	1.38	20	L493667-04	WG513995
Chloride	mg/kg	110.	110.	1.83	20	L494228-01	WG513995
Total Solids	%	90.0	89.8	0.211	5	L494414-06	WG514109

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0475	95.1	76-113	WG514037
Ethylbenzene	mg/kg	.05	0.0480	96.1	78-115	WG514037
Toluene	mg/kg	.05	0.0499	99.8	76-114	WG514037
Total Xylene	mg/kg	.15	0.144	96.0	81-118	WG514037
a,a,a-Trifluorotoluene (PID)				100.4	54-144	WG514037
TPH (GC/FID) High Fraction	ppm	60	53.7	89.6	50-150	WG514013
o-Terphenyl				82.65	50-150	WG514013
Chloride	mg/kg	200	188	94.0	85-115	WG513995
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.42	98.5	67-135	WG514168
a,a,a-Trifluorotoluene (FID)				98.70	59-128	WG514168
Total Solids	%	50	50.0	100	85-115	WG514109

Analyte	Units	Laboratory Control Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref %Rec				
Benzene	mg/kg	0.0484	0.0475 97.0	76-113	1.80	20	WG514037
Ethylbenzene	mg/kg	0.0489	0.0480 98.0	78-115	1.70	20	WG514037

* Performance of this Analyte is outside of established criteria
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

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Quality Assurance Report
Level II

L494413

December 21, 2010

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Toluene	mg/kg	0.0478	0.0499	96.0		76-114	4.32	20	WGS14037
Total Xylene	mg/kg	0.146	0.144	97.0		81-118	1.44	20	WGS14037
a,a,a-Trifluorotoluene (PID)				101.0		54-144			WGS14037
TPH (GC/FID) High Fraction	ppm	57.6	53.7	96.0		50-150	6.94	20	WGS14013
o-Terphenyl				89.06		50-150			WGS14013
Chloride	mg/kg	187	188	94.0		85-115	0.533	20	WGS13995
TPH (GC/FID) Low Fraction	mg/kg	6.33	5.42	115		67-135	15.6	20	WGS14168
a,a,a-Trifluorotoluene (FID)				99.55		59-128			WGS14168

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.238	0	05	95.1	32-137	L494423-04	WGS14037
Ethylbenzene	mg/kg	0.251	0.120	05	52.4	10-150	L494423-04	WGS14037
Toluene	mg/kg	0.293	0.200	05	37.1	20-142	L494423-04	WGS14037
Total Xylene	mg/kg	1.21	2.20	15	0*	16-141	L494423-04	WGS14037
a,a,a-Trifluorotoluene (PID)					99.90	54-144		WGS14037
TPH (GC/FID) High Fraction	ppm	91.2	10.0	60	135	50-150	L493644-01	WGS14013
o-Terphenyl					57.35	50-150		WGS14013
Chloride	mg/kg	515	85.1	500	86.0	80-120	L493868-05	WGS13995
TPH (GC/FID) Low Fraction	mg/kg	1000	580	5.5	76.7	55-109	L494413-01	WGS14168
a,a,a-Trifluorotoluene (FID)					101.3	59-128		WGS14168

Analyte	Units	MSD	Matrix Spike		Duplicate	Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
Benzene	mg/kg	0.244	0.238	97.5		32-137	2.47	39	L494423-04	WGS14037
Ethylbenzene	mg/kg	0.285	0.251	66.2		10-150	12.9	44	L494423-04	WGS14037
Toluene	mg/kg	0.361	0.293	64.5		20-142	21.0	42	L494423-04	WGS14037
Total Xylene	mg/kg	1.91	1.21	0*		16-141	44.6	46	L494423-04	WGS14037
a,a,a-Trifluorotoluene (PID)				99.82		54-144				WGS14037
TPH (GC/FID) High Fraction	ppm	132	91.2	204 *		50-150	36.8*	20	L493644-01	WGS14013
o-Terphenyl				72.56		50-150				WGS14013
Chloride	mg/kg	518	515	86.6		80-120	0.581	20	L493868-05	WGS13995
TPH (GC/FID) Low Fraction	mg/kg	1010	1000	78.7		55-109	1.07	20	L494413-01	WGS14168
a,a,a-Trifluorotoluene (FID)				102.7		59-128				WGS14168

Batch number / Run number / Sample number cross reference

WGS14037 R1509129 L494413-01

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L494413

12065 Lebanon Rd.
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Est 1970

December 21, 2010

WG514013 R1509309 L494413-01
WG513995: R1510270 L494413-02
WG514168: R1510631 L494413-01
WG514109 R1511436: L494413-01 02

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers '



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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier



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

Report Summary

Thursday April 08, 2010

Report Number: L452696

Samples Received: 04/07/10

Client Project:

Description: Wilmuth 2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

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REPORT OF ANALYSIS

April 08, 2010

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

ESC Sample # : L452696-02

Date Received : April 07, 2010
Description : Wilmuth 2

Site ID :

Sample ID : BACKGROUND

Project # :

Collected By : James McDaniel
Collection Date : 04/05/10 14:15

Parameter	Result	Det Limit	Units	Method	Date	Dil.
Chloride	2600	50.	mg/kg	9056	04/07/10	5
Total Solids	94.7		%	2540G	04/08/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 04/08/10 14:23 Printed: 04/08/10 14:24

February 3, 2011

Mr. James McDaniel
XTO Energy, Inc.
382 Road 3100
Aztec, New Mexico 87410

**RE: Excavation Oversight Activities Report
XTO Energy, Inc.
Wilmuth #2
Aztec, New Mexico**

Dear Mr. McDaniel:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), conducted oversight of the excavation of petroleum hydrocarbon-impacted soils at the Wilmuth #2 natural gas well (Site) and prepared this excavation oversight activity report.

Site Description

The Wilmuth #2 natural gas well is located in the southeast quarter of the southwest quarter of Section 26, Township 31 North, Range 11 West, San Juan County, New Mexico. The Site is situated approximately 0.27 miles east of the Animas River (Figure 1). The site geology is defined as Quaternary age alluvium associated with the Animas River.

Site History

In December 2010, XTO removed a below-grade storage tank (BGT) for produced water and observed stained soil indicating a release of petroleum hydrocarbons at the Site. On December 16, 2010, XTO collected a sample of the stained soil and submitted the soil sample to ESC Lab Sciences for analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and chloride. The analytical results indicated the soil sample contained 680 milligrams per kilogram (mg/kg) of TPH, which exceeds the New Mexico Oil and Conservation Division (NMOCD) recommended remediation action level (RRAL) for this Site. BTEX concentrations were below the NMOCD RRAL, and the chloride concentration was comparable to background conditions as determined during a separate sampling event in April 2007. Based on the TPH laboratory analytical results, XTO initiated removal of the impacted soil.

Scope of Work

The scope of work for this remediation project included field screening, sampling, and overseeing removal of impacted soil until confirmatory soil samples from the side walls



and floor of the excavation were analyzed and the laboratory analytical results indicated the Site had been remediated to below NMOCD RRALs.

Excavation and Soil Sampling Activities

LTE was on site on January 4 and 5, 2011, to oversee excavation activities. Mr. Ray Tucker, Mr. Anthony Espinosa, Mr. Scott Baxstrom, and Mr. Luke McCollum, all of XTO were periodically on site to observe excavation activities. Based on visual observations, field screening data, depth to groundwater, and laboratory analysis sample results, LTE recommended that XTO continue excavation until all soil with concentrations of TPH in excess of the RRALs was removed from the Site. LTE collected confirmation samples for laboratory analysis from the side walls and floor of the excavation to document the effectiveness of excavation activities.

Along the southwestern portion of the excavation near the former meter house, there was free phase hydrocarbon in the wall of the excavation at a depth of approximately 3 feet bgs. This area was subsequently excavated and non-impacted soil was encountered eventually on the south wall and the floor of the excavation. In the east wall of the northeast corner of the excavation, impacted soil identified in the east wall could not be completely removed due to the presence of a fence enclosing two aboveground storage tanks (ASTs) for the Wilmuth #1 well operated by ConocoPhillips. The east wall of the excavation lies seven feet west of the fence. The layer of contaminated soil consisted of a well-graded, medium sand atop an uncontaminated clay layer. The final dimension of the excavation was approximately 28 feet by 47 feet with a total depth from 3 feet to 6 feet bgs (Figure 2). Impacted soil was transported off site to the Industrial Ecosystems Inc. (IEI) landfarm in Aztec, New Mexico. The excavation was backfilled with approximately 200 cubic yards of clean fill from Four Corners Materials.

Figure 3 depicts the location of composite soil samples collected from the side walls and floor of the excavation. Composite soil samples were collected by depositing four or five aliquots of soil into a plastic bag, thoroughly mixing the contents, and filling a clean, laboratory supplied 4-ounce glass jar. Soil samples were stored on ice and shipped overnight to ESC Lab Sciences, Mt. Juliet, Tennessee, following strict chain-of-custody procedures. The soil samples were analyzed for BTEX by United States Environmental Protection Agency (EPA) Method 8021B and for TPH (gasoline range and diesel range organics) by EPA Modified Method 8015B. Groundwater was encountered at a depth of approximately 7 feet bgs in an area excavated to a greater depth by the trackhoe. However, groundwater did not fill the bottom of the excavation nor was groundwater removed from the excavation. One groundwater sample was collected from the bottom of the excavation; however, XTO cancelled the analysis directly with the laboratory.





Analytical Results

Laboratory analytical results for soil samples collected prior to and during the excavation activities are listed on Table 1. The locations of soil samples collected during the January 2011 excavation activities are depicted on Figure 3. Complete laboratory reports are presented as Appendix A. The final laboratory analyses indicate that no TPH or BTEX concentrations in soil on the side walls and floor of the excavation, except for the east wall of the northeast corner, exceed the NMOCD RRALs for sites where groundwater is less than 50 feet bgs. In the east wall of the northeast corner, a thin layer of impacted soil was present at a depth spanning approximately 1 foot to 2 feet bgs. The grab sample ("East Fence") collected from this soil contained 210.5 mg/kg of BTEX, 7,800 mg/kg of GRO; 3,000 mg/kg of DRO; and 10,800 mg/kg of TPH, concentrations which exceed the original sample (BGT Closure Composite 12/16/2010) collected immediately below the BGT. The five point composite sample collected from the east wall with one point from contaminated soil and four points from non-impacted locations labeled "East Wall w/ Contam" contained 41.95 mg/kg of BTEX and 2,510 mg/kg of TPH. The third five point composite sample ("East 3") collected from the east wall that did not include any soil from the impacted layer contained no BTEX or TPH in excess of the laboratory method detection limit (0.042 mg/kg and 5.17 mg/kg, respectively).

Summary and Conclusions

An estimated total volume of 200 cubic yards of soil was excavated and transported to the IEI landfarm near Aztec, New Mexico. Confirmation soil samples from the side walls and floor of the excavation were below the NMOCD RRALs for BTEX and TPH concentrations, with the exception of a small portion of the northeast wall. Additional soil removal to the east was prohibited by the presence of a fence and ASTs associated with the Wilmoth #1 gas well operated by ConocoPhillips. Significantly higher concentrations of BTEX and TPH in the sample collected from the remaining visible impacts in the northeast wall suggest a different source and should be investigated as such. The excavation was backfilled with approximately 200 cubic yards of clean fill obtained from Four Corners Materials.

Limitations

No investigation is infallible. Some uncertainty will always exist concerning the presence or absence of potential contaminants at a particular property, irrespective of the rigor of the investigation. Accordingly, LTE does not warrant that contaminants, other than those identified in this report, do not exist at the subject property or may not exist there in the future.

LTE believes that it has performed the services summarized in this report in a manner consistent with the level of care and skill ordinarily exercised by members of the





environmental profession practicing at the same time and under similar conditions in the area of the project.

If you have any questions or comments, please do not hesitate to contact LTE at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads "Julie Linn". The signature is written in a cursive, flowing style.

Julie Linn, P.G.
Senior Geologist

Attachments (5)
Figure 1 – Site Location Map
Figure 2 – Site Map
Table 1 – Soil Analytical Results
Appendix A – Analytical Laboratory Reports



FIGURES



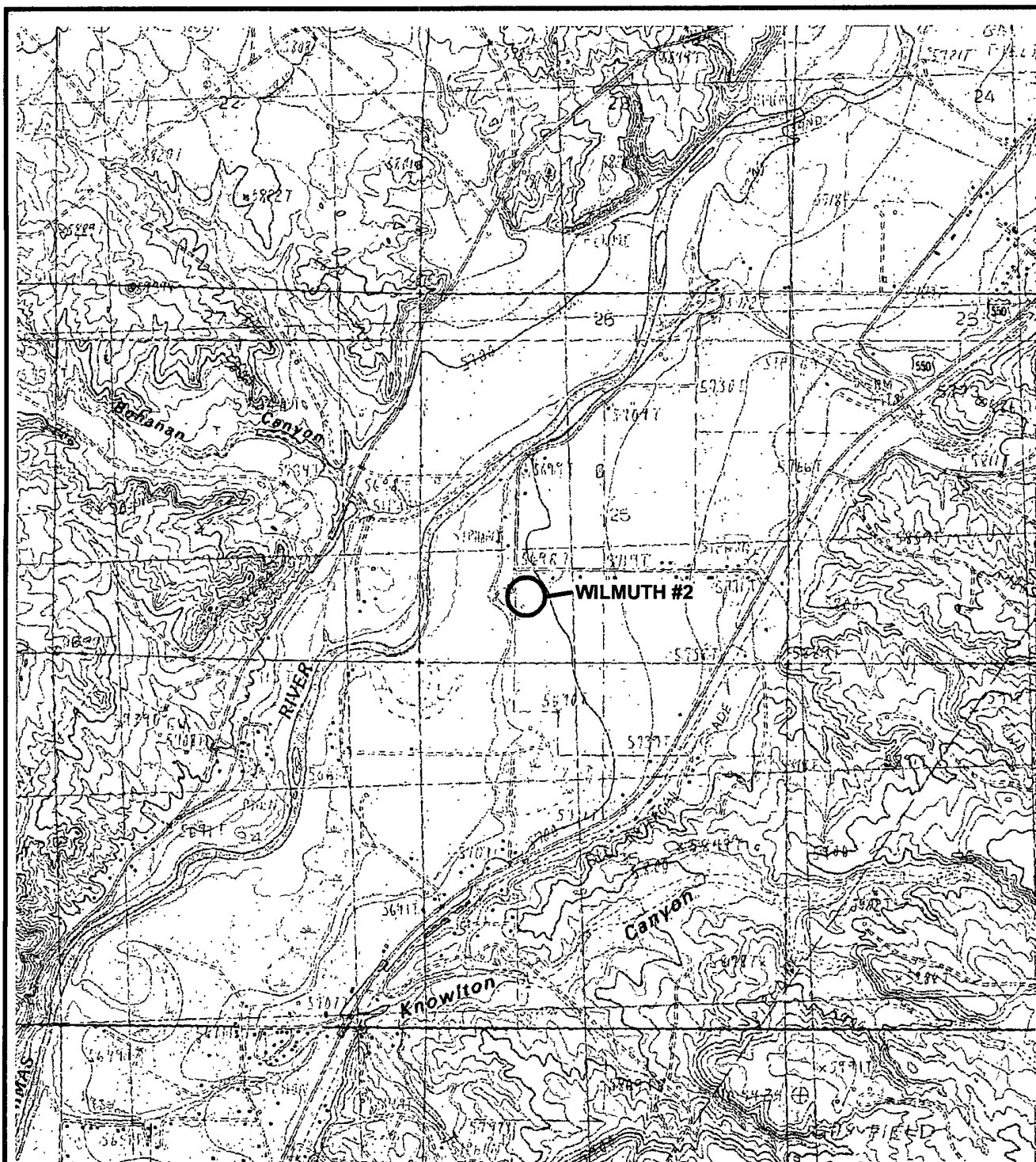
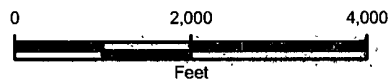


IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

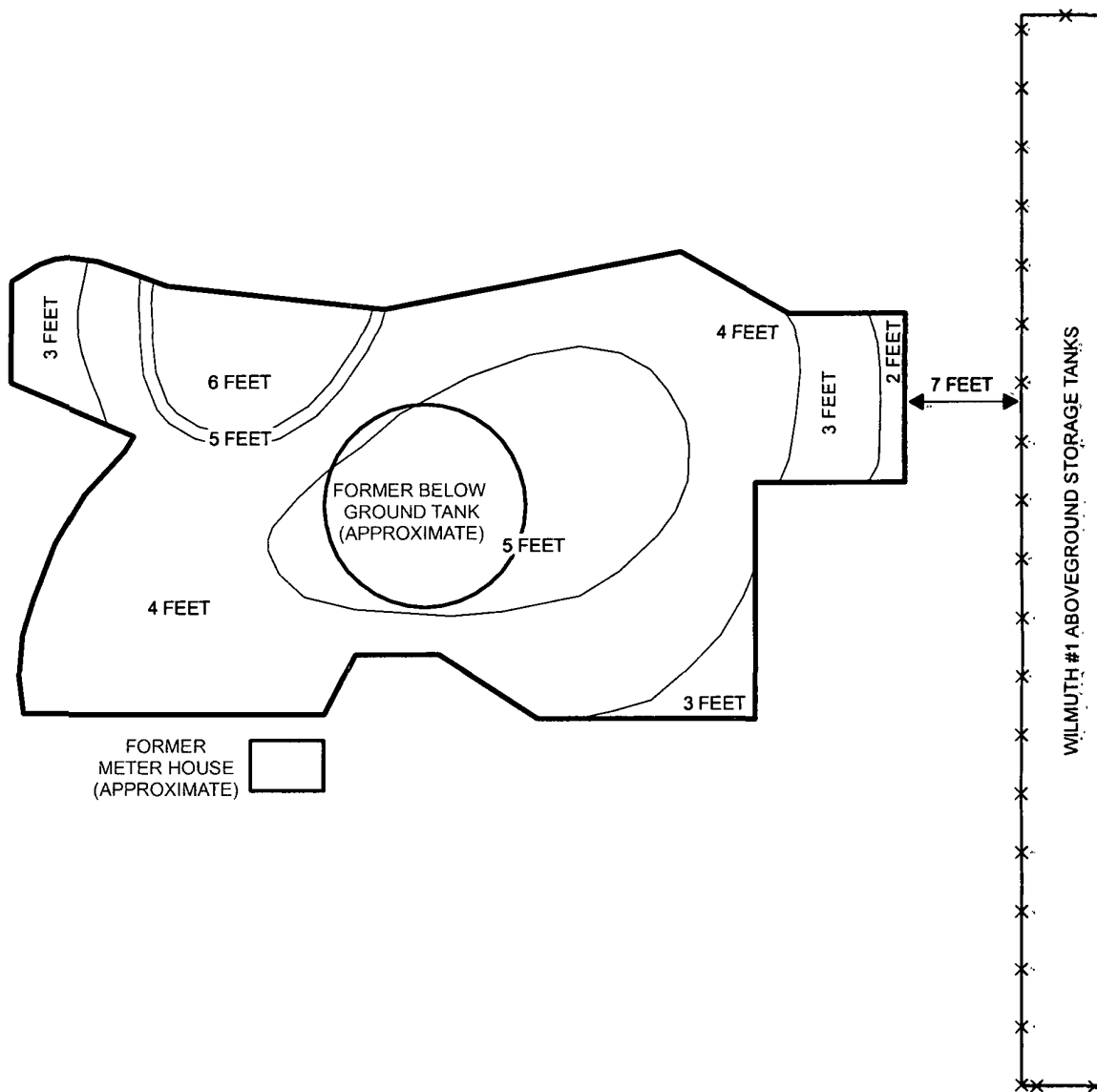


LEGEND

○ SITE LOCATION

FIGURE 1
SITE LOCATION MAP
WILMUTH #2 SOIL EXCAVATION
SESW SEC 26 T31N R11W
SAN JUAN COUNTY, NEW MEXICO
XTO ENERGY, INC. - SAN JUAN DIVISION





LEGEND

✕—✕ FENCE

— FORMER FACILITY INFRASTRUCTURE

□ EXCAVATION PERIMETER (01/04/11 - 01/05/11)

□ BOUNDARY OF EXCAVATION DEPTH

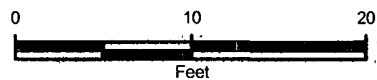
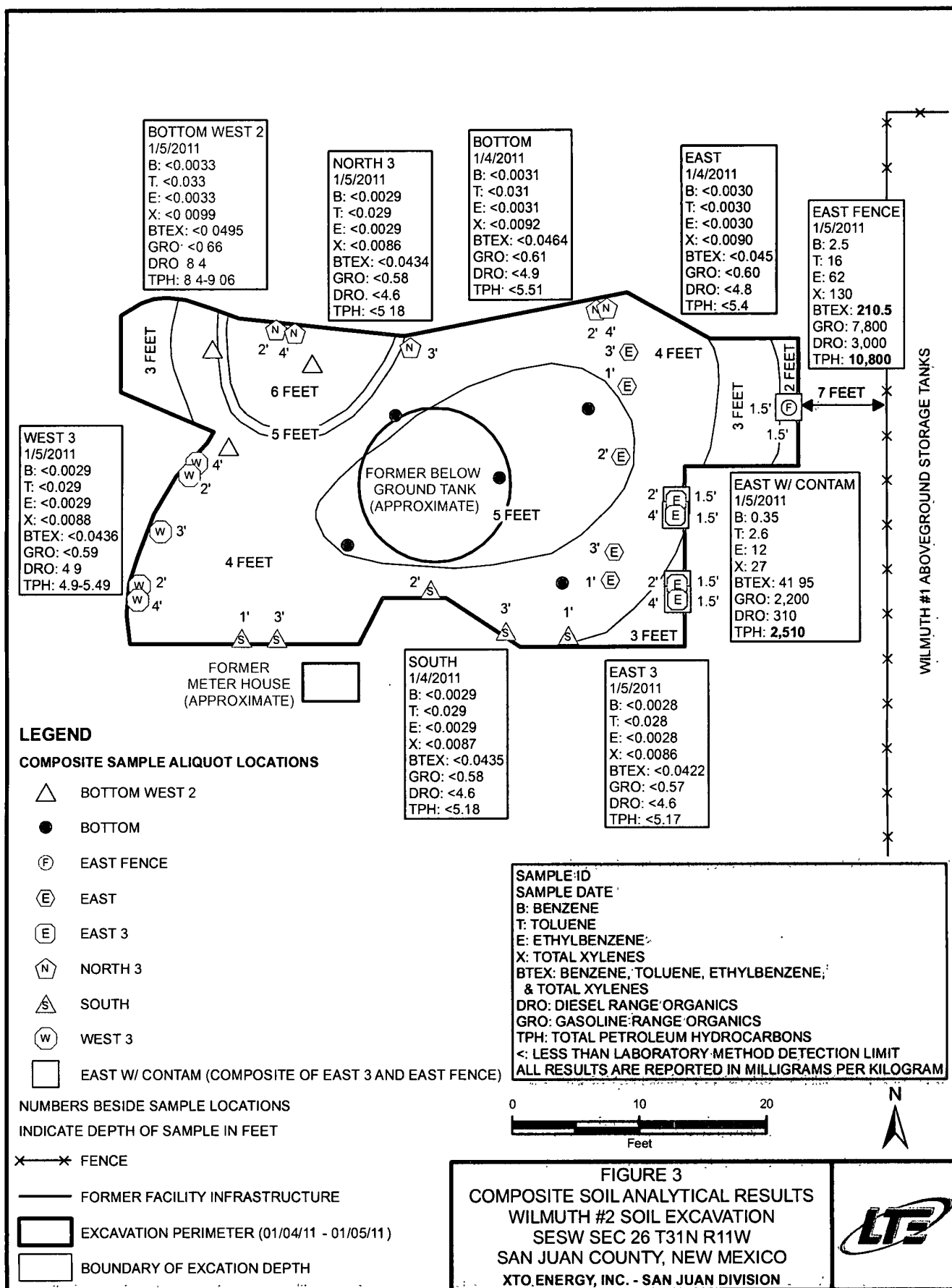


FIGURE 2 SITE MAP

WILMUTH #2 SOIL EXCAVATION
SESW SEC 26 T31N R11W
SAN JUAN COUNTY, NEW MEXICO
XTO ENERGY, INC. - SAN JUAN DIVISION





TABLES



TABLE 1
SOIL ANALYTICAL RESULTS
WILMUTH #2
XTO ENERGY, INC.

Sample ID	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
NMOC Levels		10	n/e	n/e	n/e	50	n/e	n/e	100
BGT Closure Composite	12/16/2010	0.0047	<0.029	0.17	1.3	1,503.7	680	18	698
East	1/4/2011	<0.0030	<0.030	<0.0030	<0.0090	<0.045	<0.60	<4.8	<5.4
South*	1/4/2011	<0.0029	<0.029	<0.0029	<0.0087	<0.0435	<0.58	<4.6	<5.18
Bottom*	1/4/2011	<0.0031	<0.031	<0.0031	<0.0092	<0.0464	<0.61	<4.9	<5.51
West 3*	1/5/2011	<0.0029	<0.029	<0.0029	<0.0088	<0.0436	<0.59	4.9	4.9-5.49
North 3*	1/5/2011	<0.0029	<0.029	<0.0029	<0.0086	<0.0434	<0.58	<4.6	<5.18
Bottom West 2*	1/5/2011	<0.0033	<0.033	<0.0033	<0.0099	<0.0495	<0.66	8.4	8.4-9.06
East 3*	1/5/2011	<0.0028	<0.028	<0.0028	<0.0086	<0.0422	<0.57	<4.6	<5.17
East W/ Contam	1/5/2011	0.35	2.6	12	27	41.95	2,200	310	2,510
East Fence	1/5/2011	2.5	16	62	130	210.5	7,800	3,000	10,800

Notes:

mg/kg - milligrams per kilogram

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

TPH - total petroleum hydrocarbons

< - indicates result is less than the stated laboratory method detection limit

* - indicates final confirmation sample

n/e - not established

NMOC - New Mexico Oil Conservation Commission

Bold - indicates values exceeding NMOC standards



APPENDIX A
ANALYTICAL LABORATORY REPORTS





12065 Lebanon Rd.
Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

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

Report Summary

Tuesday December 21, 2010

Report Number: L494413

Samples Received: 12/18/10

Client Project:

Description: Wilmuth 2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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L.A.B S.C.I.E.N.C.E.S

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REPORT OF ANALYSIS

December 21, 2010

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

ESC Sample # : L494413-01

Date Received : December 18, 2010
Description : Wilmuth 2
Sample ID : BGT CLOSURE COMPOSITE

Site ID : WILMUTH 2

Collected By : James McDaniel
Collection Date : 12/16/10 15:45

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.2		%	2540G	12/21/10	1
Benzene	0.0047	0.0029	mg/kg	8021/8015	12/19/10	5
Toluene	BDL	0.029	mg/kg	8021/8015	12/19/10	5
Ethylbenzene	0.17	0.0029	mg/kg	8021/8015	12/19/10	5
Total Xylene	1.3	0.0088	mg/kg	8021/8015	12/19/10	5
TPH (GC/FID) Low Fraction	680	12.	mg/kg	GRO	12/20/10	100
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	88.3		% Rec.	8021/8015	12/20/10	100
a,a,a-Trifluorotoluene (PID)	102.		% Rec.	8021/8015	12/19/10	5
TPH (GC/FID) High Fraction	18.	4.7	mg/kg	3546/DRO	12/19/10	1
Surrogate recovery(%)						
o-Terphenyl	87.0		% Rec.	3546/DRO	12/19/10	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 12/21/10 15:16 Printed: 12/21/10 15:16



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REPORT OF ANALYSIS

December 21, 2010

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

ESC Sample # : L494413-02

Date Received : December 18, 2010
Description : Wilmuth 2
Sample ID : BGT CLOSURE COMPOSITE
Collected By : James McDaniel
Collection Date : 12/16/10 15:45

Site ID : WILMUTH 2

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	820	12.	mg/kg	9056	12/20/10	1
Total Solids	85.2		%	2540G	12/21/10	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/21/10 15:16 Printed: 12/21/10 15:16

Summary of Remarks For Samples Printed
12/21/10 at 15:16:31

TSR Signing Reports: 288
R2 - Rush: Next Day

Charge \$10.00 Shipping Fee on every project-DV 12-14-10

Sample: L494413-01 Account: XTORNM Received: 12/18/10 09:00 Due Date: 12/21/10 00:00 RPT Date: 12/21/10 15:16

Sample: L494413-02 Account: XTORNM Received: 12/18/10 09:00 Due Date: 12/22/10 00:00 RPT Date: 12/21/10 15:16
Transfer TS from -01



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

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December 21, 2010

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg		WG514037	12/18/10 22:44
Ethylbenzene	< .0005	mg/kg		WG514037	12/18/10 22:44
Toluene	< .005	mg/kg		WG514037	12/18/10 22:44
Total Xylene	< .0015	mg/kg		WG514037	12/18/10 22:44
a,a,a-Trifluorotoluene (FID)		% Rec. 97.14	59-128	WG514037	12/18/10 22:44
a,a,a-Trifluorotoluene (PID)		% Rec. 101.3	54-144	WG514037	12/18/10 22:44
TPH (GC/FID) High Fraction	< 4	ppm		WG514013	12/19/10 09:53
o-Terphenyl		% Rec. 91.14	50-150	WG514013	12/19/10 09:53
Chloride	< 10	mg/kg		WG513995	12/20/10 10:52
TPH (GC/FID) Low Fraction	< .1	mg/kg		WG514168	12/20/10 14:42
a,a,a-Trifluorotoluene (FID)		% Rec. 91.68	59-128	WG514168	12/20/10 14:42
Total Solids	< .1	%		WG514109	12/21/10 11:32

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Chloride	mg/kg	50.0	48.0	3.68	20	L493582-01	WG513995
Chloride	mg/kg	730.	720.	1.38	20	L493667-04	WG513995
Chloride	mg/kg	110.	110.	1.83	20	L494228-01	WG513995
Total Solids	%	90.0	89.8	0.211	5	L494414-06	WG514109

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0475	95.1	76-113
Ethylbenzene	mg/kg	.05	0.0480	96.1	78-115
Toluene	mg/kg	.05	0.0499	99.8	76-114
Total Xylene	mg/kg	.15	0.144	96.0	81-118
a,a,a-Trifluorotoluene (PID)				100.4	54-144
TPH (GC/FID) High Fraction	ppm	60	53.7	89.6	50-150
o-Terphenyl				82.65	50-150
Chloride	mg/kg	200	188.	94.0	85-115
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.42	98.5	67-135
a,a,a-Trifluorotoluene (FID)				98.70	59-128
Total Solids	%	50	50.0	100.	85-115

Analyte	Units	Laboratory Control Sample Duplicate Result Ref %Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0484 0.0475	97.0	76-113	20	WG514037
Ethylbenzene	mg/kg	0.0489 0.0480	98.0	78-115	20	WG514037

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Quality Assurance Report
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L494413

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec	%Rec				
Toluene	mg/kg	0.0478	0.0499	96.0	96.0	76-114	4.32	20	WG514037
Total Xylene	mg/kg	0.146	0.144	97.0	97.0	81-118	1.44	20	WG514037
a,a,a-Trifluorotoluene(PID)				101.0	101.0	54-144			WG514037
TPH (GC/FID) High Fraction	ppm	57.6	53.7	96.0	96.0	50-150	6.94	20	WG514013
o-Terphenyl				89.06	89.06	50-150			WG514013
Chloride	mg/kg	187.	188.	94.0	94.0	85-115	0.533	20	WG513995
TPH (GC/FID) Low Fraction	mg/kg	6.33	5.42	115.	115.	67-135	15.6	20	WG514168
a,a,a-Trifluorotoluene(FID)				99.55	99.55	59-128			WG514168

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.238	0	.05	95.1	32-137	L494423-04	WG514037
Ethylbenzene	mg/kg	0.251	0.120	.05	52.4	10-150	L494423-04	WG514037
Toluene	mg/kg	0.293	0.200	.05	37.1	20-142	L494423-04	WG514037
Total Xylene	mg/kg	1.21	2.20	.15	0*	16-141	L494423-04	WG514037
a,a,a-Trifluorotoluene(PID)					99.90	54-144		WG514037
TPH (GC/FID) High Fraction	ppm	91.2	10.0	60	135.	50-150	L493644-01	WG514013
o-Terphenyl					57.35	50-150		WG514013
Chloride	mg/kg	515.	85.1	500	86.0	80-120	L493868-05	WG513995
TPH (GC/FID) Low Fraction	mg/kg	1000	580.	5.5	76.7	55-109	L494413-01	WG514168
a,a,a-Trifluorotoluene(FID)					101.3	59-128		WG514168

Analyte	Units	MSD	Matrix Spike		Duplicate	Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec	%Rec					
Benzene	mg/kg	0.244	0.238	97.5	97.5	32-137	2.47	39	L494423-04	WG514037
Ethylbenzene	mg/kg	0.285	0.251	66.2	66.2	10-150	12.9	44	L494423-04	WG514037
Toluene	mg/kg	0.361	0.293	64.5	64.5	20-142	21.0	42	L494423-04	WG514037
Total Xylene	mg/kg	1.91	1.21	0*	0*	16-141	44.6	46	L494423-04	WG514037
a,a,a-Trifluorotoluene(PID)				99.82	99.82	54-144				WG514037
TPH (GC/FID) High Fraction	ppm	132..	91.2	204.*	204.*	50-150	36.8*	20	L493644-01	WG514013
o-Terphenyl				72.56	72.56	50-150				WG514013
Chloride	mg/kg	518.	515.	86.6	86.6	80-120	0.581	20	L493868-05	WG513995
TPH (GC/FID) Low Fraction	mg/kg	1010	1000	78.7	78.7	55-109	1.07	20	L494413-01	WG514168
a,a,a-Trifluorotoluene(FID)				102.7	102.7	59-128				WG514168

Batch number /Run number / Sample number cross reference

WG514037: R1509129: L494413-01

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WG514013: R1509309: L494413-01
WG513995: R1510270: L494413-02
WG514168: R1510631: L494413-01
WG514109: R1511436: L494413-01 02

* * Calculations are performed prior to rounding of reported values.
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



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

Report Summary

Monday January 10, 2011

Report Number: L496118

Samples Received: 01/05/11

Client Project: XT01031

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Where applicable, sampling conducted by ESC is performed per guidance provided
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REPORT OF ANALYSIS

January 10, 2011

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

ESC Sample # : L496118-01

Date Received : January 05, 2011
Description :

Site ID :

Sample ID : EAST

Project # : XT01031

Collected By : Julie Linn
Collection Date : 01/04/11 15:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.9		%	2540G	01/09/11	1
Benzene	BDL	0.0030	mg/kg	8021/8015	01/05/11	5
Toluene	BDL	0.030	mg/kg	8021/8015	01/05/11	5
Ethylbenzene	BDL	0.0030	mg/kg	8021/8015	01/05/11	5
Total Xylene	BDL	0.0090	mg/kg	8021/8015	01/05/11	5
TPH (GC/FID) Low Fraction	BDL	0.60	mg/kg	GRO	01/05/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	99.3		% Rec.	8021/8015	01/05/11	5
a,a,a-Trifluorotoluene (PID)	104.		% Rec.	8021/8015	01/05/11	5
TPH (GC/FID) High Fraction	BDL	4.8	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	65.4		% Rec.	3546/DRO	01/07/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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The reported analytical results relate only to the sample submitted

Reported: 01/10/11 15:02 Printed: 01/10/11 15:22



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REPORT OF ANALYSIS

January 10, 2011

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

Date Received : January 05, 2011
Description :
Sample ID : SOUTH
Collected By : Julie Linn
Collection Date : 01/04/11 15:20

ESC Sample # : L496118-02
Site ID :
Project # : XT01031

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.1		%	2540G	01/09/11	1
Benzene	BDL	0.0029	mg/kg	8021/8015	01/05/11	5
Toluene	BDL	0.029	mg/kg	8021/8015	01/05/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021/8015	01/05/11	5
Total Xylene	BDL	0.0087	mg/kg	8021/8015	01/05/11	5
TPH (GC/FID) Low Fraction	BDL	0.58	mg/kg	GRO	01/05/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	99.2		% Rec.	8021/8015	01/05/11	5
a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021/8015	01/05/11	5
TPH (GC/FID) High Fraction	BDL	4.6	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	64.6		% Rec.	3546/DRO	01/07/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Reported: 01/10/11 15:02 Printed: 01/10/11 15:22



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REPORT OF ANALYSIS

January 10, 2011

James McDaniel
XTO Energy - San Juan Division
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Date Received : January 05, 2011
Description :
Sample ID : BOTTOM
Collected By : Julie Linn
Collection Date : 01/04/11 14:15

ESC Sample # : L496118-03
Site ID :
Project # : XT01031

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.4		%	2540G	01/09/11	1
Benzene	BDL	0.0031	mg/kg	8021/8015	01/05/11	5
Toluene	BDL	0.031	mg/kg	8021/8015	01/05/11	5
Ethylbenzene	BDL	0.0031	mg/kg	8021/8015	01/05/11	5
Total Xylene	BDL	0.0092	mg/kg	8021/8015	01/05/11	5
TPH (GC/FID) Low Fraction	BDL	0.61	mg/kg	GRO	01/05/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	99.1		% Rec.	8021/8015	01/05/11	5
a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021/8015	01/05/11	5
TPH (GC/FID) High Fraction	BDL	4.9	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	70.8		% Rec.	3546/DRO	01/07/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Reported: 01/10/11 15:02 Printed: 01/10/11 15:22

Summary of Remarks For Samples Printed
01/10/11 at 15:22:24

TSR Signing Reports: 288
R2 - Rush: Next Day

No Energy fee. Charge \$10 Shipping Fee per Dave V 1/4/10 When transferring TS to a new dash # DO
NOT charge a fee

Sample: L496118-01 Account: XTORNM Received: 01/05/11 09:00 Due Date: 01/12/11 00:00 RPT Date: 01/10/11 15:02
UNV567626 - MB 1/7/11

Sample: L496118-02 Account: XTORNM Received: 01/05/11 09:00 Due Date: 01/12/11 00:00 RPT Date: 01/10/11 15:02

Sample: L496118-03 Account: XTORNM Received: 01/05/11 09:00 Due Date: 01/12/11 00:00 RPT Date: 01/10/11 15:02

Sample: L496118-04 Account: XTORNM Received: 01/05/11 09:00 Due Date: 01/12/11 00:00 RPT Date: 01/10/11 15:02

Sample: L496118-05 Account: XTORNM Received: 01/05/11 09:00 Due Date: 01/12/11 00:00 RPT Date: 01/10/11 15:02



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Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG516033	01/05/11 15:01
Ethylbenzene	< .0005	mg/kg			WG516033	01/05/11 15:01
Toluene	< .005	mg/kg			WG516033	01/05/11 15:01
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG516033	01/05/11 15:01
Total Xylene	< .0015	mg/kg			WG516033	01/05/11 15:01
a,a,a-Trifluorotoluene(FID)		% Rec.	99.64	59-128	WG516033	01/05/11 15:01
a,a,a-Trifluorotoluene(PID)		% Rec.	104.1	54-144	WG516033	01/05/11 15:01
TPH (GC/FID) High Fraction	< 4	ppm			WG516391	01/07/11 12:01
o-Terphenyl		% Rec.	76.45	50-150	WG516391	01/07/11 12:01
Total Solids	< .1	%			WG516413	01/09/11 18:19
Total Solids	< .1	%			WG516414	01/09/11 18:11

Analyte	Units	Result	Duplicate : Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	88.0	90.8	2.55	5	L496582-10	WG516413
Total Solids	%	88.0	88.9	0.741	5	L496558-09	WG516414

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0506	101.	76-113	WG516033
Ethylbenzene	mg/kg	.05	0.0538	108.	78-115	WG516033
Toluene	mg/kg	.05	0.0513	103.	76-114	WG516033
Total Xylene	mg/kg	.15	0.157	105.	81-118	WG516033
a,a,a-Trifluorotoluene(PID)				103.9	54-144	WG516033
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.94	108.	67-135	WG516033
a,a,a-Trifluorotoluene(FID)				104.2	59-128	WG516033
TPH (GC/FID) High Fraction	ppm	60	48.6	81.0	50-150	WG516391
o-Terphenyl				71.47	50-150	WG516391
Total Solids	%	50	49.8	99.6	85-115	WG516413
Total Solids	%	50	50.0	100.	85-115	WG516414

Analyte	Units	Laboratory Control Sample Duplicate Result Ref	% Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0502	0.0506	100.	76-113	0.760	20
Ethylbenzene	mg/kg	0.0523	0.0538	105.	78-115	2.80	20
Toluene	mg/kg	0.0505	0.0513	101.	76-114	1.55	20
Total Xylene	mg/kg	0.153	0.157	102.	81-118	3.03	20
a,a,a-Trifluorotoluene(PID)				103.9	54-144		WG516033
TPH (GC/FID) Low Fraction	mg/kg	5.95	5.94	108.	67-135	0.230	20
a,a,a-Trifluorotoluene(FID)				104.1	59-128		WG516033

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) High Fraction	ppm	50.4	48.6	84.0	50-150	3.57	25	WG516391
o-Terphenyl				72.61	50-150			WG516391

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
Benzene	mg/kg	0.233	0	.05	93.3	32-137	L495990-13	WG516033
Ethylbenzene	mg/kg	0.244	0	.05	97.4	10-150	L495990-13	WG516033
Toluene	mg/kg	0.223	0	.05	89.3	20-142	L495990-13	WG516033
Total Xylene	mg/kg	0.718	0	.15	95.8	16-141	L495990-13	WG516033
a,a,a-Trifluorotoluene (PID)					105.4	54-144		WG516033
TPH (GC/FID) Low Fraction	mg/kg	25.4	0	5.5	92.5	55-109	L495990-13	WG516033
a,a,a-Trifluorotoluene (FID)					102.9	59-128		WG516033
TPH (GC/FID) High Fraction	ppm	42.0	0	60	70.0	50-150	L496541-01	WG516391
o-Terphenyl					59.41	50-150		WG516391

Analyte	Units	MSD	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
Benzene	mg/kg	0.247	0.233	98.7		32-137	5.61	39	L495990-13	WG516033
Ethylbenzene	mg/kg	0.253	0.244	101.		10-150	3.70	44	L495990-13	WG516033
Toluene	mg/kg	0.246	0.223	98.4		20-142	9.67	42	L495990-13	WG516033
Total Xylene	mg/kg	0.751	0.718	100.		16-141	4.47	46	L495990-13	WG516033
a,a,a-Trifluorotoluene (PID)				99.69		54-144				WG516033
TPH (GC/FID) Low Fraction	mg/kg	23.5	25.4	85.4		55-109	8.01	20	L495990-13	WG516033
a,a,a-Trifluorotoluene (FID)				102.1		59-128				WG516033
TPH (GC/FID) High Fraction	ppm	47.1	42.0	78.4		50-150	11.4	25	L496541-01	WG516391
o-Terphenyl				68.84		50-150				WG516391

Batch number / Run number / Sample number cross reference

WG516033: R1527049: L496118-01 02 03
WG516066: R1527129: L496118-04 05
WG516391: R1529609: L496118-01 02 03
WG516413: R1532292: L496118-01 02
WG516414: R1532293: L496118-03

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Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



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

Report Summary

Friday January 07, 2011

Report Number: L496384

Samples Received: 01/06/11

Client Project: XTO1031

Description: Wilmuth #2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

January 07, 2011

James McDaniel
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Date Received : January 06, 2011
Description : Wilmuth #2
Sample ID : WEST 3
Collected By : Julie Linn
Collection Date : 01/05/11 09:35

ESC Sample # : L496384-01

Site ID : WILMUTH 2

Project # : XTO1031

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.8		%	2540G	01/07/11	1
Benzene	BDL	0.0029	mg/kg	8021/8015	01/06/11	5
Toluene	BDL	0.029	mg/kg	8021/8015	01/06/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021/8015	01/06/11	5
Total Xylene	BDL	0.0088	mg/kg	8021/8015	01/06/11	5
TPH (GC/FID) Low Fraction	BDL	0.59	mg/kg	GRO	01/06/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	104.		% Rec.	8021/8015	01/06/11	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	01/06/11	5
TPH (GC/FID) High Fraction	4.9	4.7	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	66.4		% Rec.	3546/DRO	01/07/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

January 07, 2011

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ESC Sample # : L496384-02

Date Received : January 06, 2011
Description : Wilmuth #2

Site ID : WILMUTH 2

Sample ID : NORTH 3

Project # : XTO1031

Collected By : Julie Linn
Collection Date : 01/05/11 10:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.8		%	2540G	01/07/11	1
Benzene	BDL	0.0029	mg/kg	8021/8015	01/06/11	5
Toluene	BDL	0.029	mg/kg	8021/8015	01/06/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021/8015	01/06/11	5
Total Xylene	BDL	0.0086	mg/kg	8021/8015	01/06/11	5
TPH (GC/FID) Low Fraction	BDL	0.58	mg/kg	GRO	01/06/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	102.		% Rec.	8021/8015	01/06/11	5
a,a,a-Trifluorotoluene (PID)	102.		% Rec.	8021/8015	01/06/11	5
TPH (GC/FID) High Fraction	BDL	4.6	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	80.1		% Rec.	3546/DRO	01/07/11	1

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Det. Limit - Practical Quantitation Limit (PQL)

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ESC Sample # : L496384-03

Date Received : January 06, 2011
Description : Wilmuth #2

Site ID : WILMUTH 2

Sample ID : BOTTOM WEST 2

Project # : XTO1031

Collected By : Julie Linn
Collection Date : 01/05/11 10:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	75.6		%	2540G	01/07/11	1
Benzene	BDL	0.0033	mg/kg	8021/8015	01/06/11	5
Toluene	BDL	0.033	mg/kg	8021/8015	01/06/11	5
Ethylbenzene	BDL	0.0033	mg/kg	8021/8015	01/06/11	5
Total Xylene	BDL	0.0099	mg/kg	8021/8015	01/06/11	5
TPH (GC/FID) Low Fraction	BDL	0.66	mg/kg	GRO	01/06/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	01/06/11	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	01/06/11	5
TPH (GC/FID) High Fraction	8.4	5.3	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	58.3		% Rec.	3546/DRO	01/07/11	1

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Det. Limit - Practical Quantitation Limit (PQL)

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January 07, 2011

James McDaniel
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Date Received : January 06, 2011
Description : Wilmuth #2
Sample ID : EAST 3
Collected By : Julie Linn
Collection Date : 01/05/11 12:59

ESC Sample # : L496384-04
Site ID : WILMUTH 2
Project # : XTO1031

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.6		%	2540G	01/07/11	1
Benzene	BDL	0.0028	mg/kg	8021/8015	01/06/11	5
Toluene	BDL	0.028	mg/kg	8021/8015	01/06/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021/8015	01/06/11	5
Total Xylene	BDL	0.0086	mg/kg	8021/8015	01/06/11	5
TPH (GC/FID) Low Fraction	BDL	0.57	mg/kg	GRO	01/06/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	104.		% Rec.	8021/8015	01/06/11	5
a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021/8015	01/06/11	5
TPH (GC/FID) High Fraction	BDL	4.6	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	81.4		% Rec.	3546/DRO	01/07/11	1

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Det. Limit - Practical Quantitation Limit (PQL)

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Date Received : January 06, 2011
Description : Wilmuth #2
Sample ID : EAST W/ CONTAM
Collected By : Julie Linn
Collection Date : 01/05/11 12:55

ESC Sample # : L496384-05

Site ID : WILMUTH 2

Project # : XTO1031

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.8		%	2540G	01/07/11	1
Benzene	0.35	0.14	mg/kg	8021/8015	01/06/11	250
Toluene	2.6	1.4	mg/kg	8021/8015	01/06/11	250
Ethylbenzene	12.	0.14	mg/kg	8021/8015	01/06/11	250
Total Xylene	27.	0.43	mg/kg	8021/8015	01/06/11	250
TPH (GC/FID) Low Fraction	2200	28.	mg/kg	GRO	01/06/11	250
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	109.		% Rec.	8021/8015	01/06/11	250
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	01/06/11	250
TPH (GC/FID) High Fraction	310	4.6	mg/kg	3546/DRO	01/07/11	1
Surrogate recovery(%)						
o-Terphenyl	53.5		% Rec.	3546/DRO	01/07/11	1

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Date Received : January 06, 2011
Description : Wilmuth #2
Sample ID : EAST FENCE
Collected By : Julie Linn
Collection Date : 01/05/11 12:50

ESC Sample # : L496384-06

Site ID : WILMUTH 2

Project # : XTO1031

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.4		%	2540G	01/07/11	1
Benzene	2.5	0.56	mg/kg	8021/8015	01/06/11	1000
Toluene	16.	5.6	mg/kg	8021/8015	01/06/11	1000
Ethylbenzene	62.	0.56	mg/kg	8021/8015	01/06/11	1000
Total Xylene	130	1.7	mg/kg	8021/8015	01/06/11	1000
TPH (GC/FID) Low Fraction	7800	560	mg/kg	GRO	01/07/11	5000
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	92.4		% Rec.	8021/8015	01/07/11	5000
a,a,a-Trifluorotoluene(PID)	98.7		% Rec.	8021/8015	01/06/11	1000
TPH (GC/FID) High Fraction	3000	90.	mg/kg	3546/DRO	01/07/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	01/07/11	20

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L496384-06	WG516298	SAMP	o-Terphenyl	R1529150	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG516248	01/06/11 16:43
Ethylbenzene	< .0005	mg/kg			WG516248	01/06/11 16:43
Toluene	< .005	mg/kg			WG516248	01/06/11 16:43
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG516248	01/06/11 16:43
Total Xylene	< .0015	mg/kg			WG516248	01/06/11 16:43
a,a,a-Trifluorotoluene(FID)		% Rec.	104.7	59-128	WG516248	01/06/11 16:43
a,a,a-Trifluorotoluene(PID)		% Rec.	104.7	54-144	WG516248	01/06/11 16:43
TPH (GC/FID) High Fraction	< 4	ppm			WG516298	01/06/11 23:32
o-Terphenyl		% Rec.	79.82	50-150	WG516298	01/06/11 23:32
Total Solids	< .1	%			WG516264	01/07/11 09:41
Total Solids	< .1	%			WG516265	01/07/11 09:55
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG516398	01/07/11 12:16
a,a,a-Trifluorotoluene(FID)		% Rec.	96.35	59-128	WG516398	01/07/11 12:16

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	87.0	87.8	0.463	5	L496384-05	WG516264
Total Solids	%	86.0	88.4	2.70	5	L496384-06	WG516265

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0495	99.0	76-113	WG516248
Ethylbenzene	mg/kg	.05	0.0524	105.	78-115	WG516248
Toluene	mg/kg	.05	0.0511	102.	76-114	WG516248
Total Xylene	mg/kg	.15	0.161	107.	81-118	WG516248
a,a,a-Trifluorotoluene(PID)				100.2	54-144	WG516248
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.20	113.	67-135	WG516248
a,a,a-Trifluorotoluene(FID)				95.57	59-128	WG516248
TPH (GC/FID) High Fraction	ppm	60	55.1	91.8	50-150	WG516298
o-Terphenyl				81.33	50-150	WG516298
Total Solids	%	50	50.0	100.	85-115	WG516264
Total Solids	%	50	50.0	100.	85-115	WG516265
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.56	101.	67-135	WG516398
a,a,a-Trifluorotoluene(FID)				103.5	59-128	WG516398

Analyte	Units	Laboratory Control Result	Sample Ref	Duplicate %Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.89	6.20	107.	67-135	5.11	20	WG516248

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
a,a,a-Trifluorotoluene(FID)				95.12		59-128			
Benzene	mg/kg	0.0506	0.0495	101.		76-113	2.22	20	WG516248
Ethylbenzene	mg/kg	0.0541	0.0524	108.		78-115	3.06	20	WG516248
Toluene	mg/kg	0.0533	0.0511	106.		76-114	4.18	20	WG516248
Total Xylene	mg/kg	0.168	0.161	112.		81-118	4.36	20	WG516248
a,a,a-Trifluorotoluene(PID)				101.8		54-144			WG516248
TPH (GC/FID) High Fraction	ppm	51.3	55.1	85.0		50-150	7.17	25	WG516298
o-Terphenyl				75.37		50-150			WG516298
TPH (GC/FID) Low Fraction	mg/kg	6.14	5.56	112.		67-135	10.0	20	WG516398
a,a,a-Trifluorotoluene(FID)				105.0		59-128			WG516398

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Benzene	mg/kg	0.236	0	.05	94.6	32-137	L496299-01	WG516248
Ethylbenzene	mg/kg	0.234	0	.05	93.4	10-150	L496299-01	WG516248
Toluene	mg/kg	0.236	0	.05	94.3	20-142	L496299-01	WG516248
Total Xylene	mg/kg	0.722	0	.15	96.3	16-141	L496299-01	WG516248
a,a,a-Trifluorotoluene(PID)					100.9	54-144		WG516248
TPH (GC/FID) Low Fraction	mg/kg	26.1	0	5.5	94.8	55-109	L496124-01	WG516248
a,a,a-Trifluorotoluene(FID)					97.47	59-128		WG516248
TPH (GC/FID) High Fraction	ppm	236.	170.	60	110.	50-150	L496469-03	WG516298
o-Terphenyl					72.03	50-150		WG516298
TPH (GC/FID) Low Fraction	mg/kg	5.00	0	5.5	90.8	55-109	L496463-01	WG516398
a,a,a-Trifluorotoluene(FID)					97.89	59-128		WG516398

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.224	0.236	89.5	32-137	5.45	39	L496299-01	WG516248
Ethylbenzene	mg/kg	0.202	0.234	81.0	10-150	14.3	44	L496299-01	WG516248
Toluene	mg/kg	0.213	0.236	85.0	20-142	10.3	42	L496299-01	WG516248
Total Xylene	mg/kg	0.625	0.722	83.4	16-141	14.4	46	L496299-01	WG516248
a,a,a-Trifluorotoluene(PID)				100.7	54-144				WG516248
TPH (GC/FID) Low Fraction	mg/kg	23.3	26.1	84.8	55-109	11.1	20	L496124-01	WG516248
a,a,a-Trifluorotoluene(FID)				98.68	59-128				WG516248
TPH (GC/FID) High Fraction	ppm	179.	236.	15.1*	50-150	27.4*	25	L496469-03	WG516298
o-Terphenyl				68.31	50-150				WG516298
TPH (GC/FID) Low Fraction	mg/kg	4.74	5.00	86.1	55-109	5.32	20	L496463-01	WG516398
a,a,a-Trifluorotoluene(FID)				96.20	59-128				WG516398

Batch number / Run number / Sample number cross reference

WG516248: R1528669: L496384-01 02 03 04 05 06

WG516298: R1529150: L496384-01 02 03 04 05 06

WG516264: R1529272: L496384-01 02 03 04 05

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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WG516265: R1529274: L496384-06
WG516398: R1529489: L496384-06

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* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Est. 1970

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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XTO Energy, Inc.
Wilmuth #2
Section 26, Township 31N, Range 11W
Closure Date: 3/17/2011



Photo 1: Wilmuth #2 after Backfill (View 1)

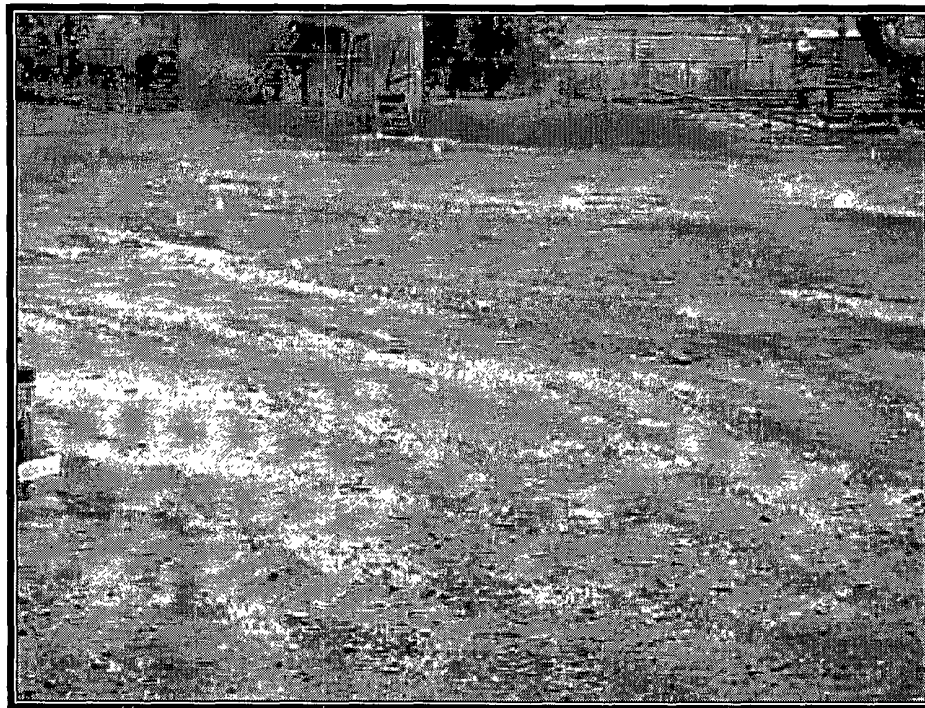


Photo 2: Wilmuth #2 after Backfill (View 2)