C-144

Permanent Pit

Closure Report

Larson & Associates, Inc.
Environmental Consultants

API # 30-025-37947

October 27, 2009

Mr. Brad A. Jones, Environmental Engineer
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Two Closure Reports, XTO Energy, Inc. North Vacuum Unit, North Water Station and Vacuum Unit, South Water Station, Lea County, New Mexico

Dear Mr. Jones:

Please find enclosed two Closure Reports, one for each of the above referenced sites.

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

RECEIVED OCD
2009 OCT 28 P 12:55

Sincerely,

LARSON & ASSOCIATES, INC.

William D. Green, PG No. 136
Texas Licensed Professional Geologist
wgreen@laenvironmental.com

Enclosure Two Permanent Pit Closure Reports

CC Mr. Larry Johnson, NM Oil Conservation Division, Hobbs
Mr. Patrick Lyons, NM State Land Office, Santa Fe
Mr. Guy Haykus, XTO Energy, Midland
Mr. Jerry Parker, XTO Energy, SE New Mexico

Permanent Pit Closure Report

XTO Energy, Inc.
North Vacuum Abo Unit, South Water Station
Unit G (SW/4, NE/4), Section 26, T17S, R34E
Lea County, NM

Project No. 8-0165

Prepared by:

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

October 23, 2009

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1.0 Executive Summary

The following report documents the final closure of the permanent pit associated with the XTO Energy (XTO) North Vacuum Abo Unit South Water Station (Site) located in Lea County, New Mexico. The legal description of the Site is Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East (Figure 1). The geodetic location is N32° 48' 24.9", W103° 31' 43.5".

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

2.0 Operator Information

Primary Contact:	Mr. Jerry Parker
Address:	XTO Energy Inc., Permian Division – SE New Mexico
	PO Box 700
	Eunice, New Mexico 88231
Office:	575.394.2089
Cell:	575.441.1628
Secondary Contact:	Guy Haykus
Address:	XTO Energy Inc.
	Midland Office
	200 N. Loraine Street, Suite 800
	Midland, Texas 79701
Office:	432.682.8873

3.0 Closure Actions

3.1 Location and Siting Description

The Site has a geodetic location of N32° 48' 24.9", W103° 31' 43.5", and is located in rural Lea County about 14 miles west-southwest of Lovington, New Mexico. The approximately 0.83 acre Site consisted of four above-ground storage tanks, and a concrete-lined permanent pit with an approximate capacity of 3,300 barrels. The Facility is covered with crushed caliche rock and is flat to very gently sloping (Figures 2 and 3).

The Facility's siting criteria presented the following findings:

- Groundwater is about 120 feet below ground surface based on records from the New Mexico State Engineer (NMSE).
- No continuously flowing watercourse is within 300 horizontal feet of the Facility.
- No surface water features, including lakes, rivers, ponds, arroyos, lakebed, sinkhole, or playa lake, are located within 200 horizontal feet of Facility.
- No permanent residence, school, hospital, institution, or church is within 300 horizontal feet of Facility.

- No private, domestic fresh-water well or spring are within 500 horizontal feet of Facility.
- No fresh water wells or springs are located within approximately 1000 horizontal feet of the Facility.
- The Facility is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance.
- The Facility is not within 500 feet an area designated as wetlands.
- The Facility is not within an area overlying a subsurface mine.
- The Facility is not within an unstable area.
- The Facility is not within a 100-year flood plain.

3.2 Closure Plan and Approval

On December 23, 2008, Larson & Associates, Inc. (LAI), on behalf of XTO, submitted a pit closure plan to the OCD in Santa Fe and Hobbs, New Mexico, in accordance with and Agreed Scheduling Order (ASO-008) between XTO and OCD. The Closure Plan was approved and signed by the OCD representative Mr. Brad Jones, on February 4, 2009. A copy of the signed C-144 closure plan is provided in Appendix A.

3.3 Landowner and OCD Notifications

In accordance with the approved closure plan and prior to commencing closure activities, notification of closure was sent to the New Mexico State Land Office (the surface owner) and the OCD. Copies of the notification letters are provided in Appendix B.

3.4 Pit Closure Activities

On February 23, 2009, XTO removed ancillary equipment (i.e. fencing, netting, etc.) for salvage or scrap metal. A track-mounted hammer hoe was used to remove the concrete lining from the pit. Approximately 18 cubic yards of concrete and 252 cubic yards of excavated soil were disposed at Controlled Recovery, Inc. (OCD Permit R9166).

On February 26, 2009, Larson & Associates, Inc. (LAI) personnel collected 5-part composite soil samples from the bottom (BC-1) and sidewalls (SC-1, EC-1, WC-1 and NC-1) of the pit following removal of the concrete and two discrete samples (B-6 and B-7) from the bottom of the excavation where staining was observed. Xenco Laboratories analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1. Copies of laboratory analytical reports are attached in Appendix C.

No benzene, BTEX or chlorides were reported above OCD reporting limits (0.2 milligrams per kilogram [mg/Kg] for benzene; 50 mg/Kg for BTEX; and 250 mg/Kg for chlorides). TPH was detected above the OCD limit (100 mg/Kg) in the discrete sample B-7 (19,600 mg/Kg).

An initial C-141 was submitted to the OCD District 1, Hobbs office on March 2, 2009, and remediation activities were conducted. The OCD District 1 office issued remediation project number 1RP-09-3-2115.

3.5 Remedial Investigation

XTO delineated the extent of the TPH and excavated the impacted soils beginning March 3, 2009. On March 4, 2009, LAI collected four additional discrete samples to confirm field delineation. Xenco laboratory analyzed the additional samples, but no TPH was reported above the method detection limits. Table 1 presents a summary of the laboratory analysis.

Based on the soil sample results, XTO requested approval from OCD District 1 to close the excavation according to the requirements of the closure plan approved by the OCD Santa Fe office. Approval was granted. An additional 192 cubic yards of soil was excavated and disposed at the CRI facility. Appendix D presents photo-documentation.

3.6 Pit Backfilling

Pit backfilling consisted of compacting six- to eight-inch lifts of clean soil purchased from surface lease owner, Mr. Tom Pearce, and compacting each lift with heavy equipment. The uppermost 18-inches consisted of topsoil purchased from the surface lease owner, Mr. Tom Pearce. The topsoil was graded to level with the surrounding surface.

Since the former pit was located within an active oilfield tank battery, the site was not drilled and reseeded.

4.0 Conclusion and Recommendation

Based on the documented activities performed in conformance with the permanent pit closure plan, LAI requests approval of final site closure for this Site.

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 NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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
☒ 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: PERMIAN DIVISION – SE NEW MEXICO, P.O. BOX 700, EUNICE, NM 88231
Facility or well name: NORTH VACUUM ABO UNIT SOUTH WATER STATION / ABO WELL NO. 305 (NEAREST WELL)
API Number: 30-025-37971 OCD Permit Number:
U/L or Qtr/Qtr G Section 26 Township 17S Range 34E County: LEA
Center of Proposed Design: Latitude 32° 48' 24.9" Longitude 103° 31' 43.5" 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 6 inches ☐ LLDPE ☐ HDPE ☐ PVC ☒ Other CONCRETE
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: 3,470 bbl Dimensions: L 65' x W 60' x D 5'

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: bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
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_____

7.

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

☐ Screen ☐ Netting ☐ Other_____

☐ 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.**

Ground water 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	☐ Yes ☐ 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	☐ Yes ☐ 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ 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

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 H_2S, 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 indentify 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): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

20.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **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 20, 2009

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 indentify 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 Controlled Recovery, Inc Permit Number R9166.
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique
☒ Site Reclamation (Photo Documentation)
On-site Closure Location: 32° 48' 24.9" Longitude 103° 31' 43.5" 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): Guy Haykus Title: Superintendent

Signature: [signature] Date: 10/26/09

e-mail address: William_Haykus@xtoenergy.com Telephone: (432) 682-8873

Table 1
Soil Analytical Data Summary
XTO Energy, Inc.
North Vacuum Abo Lease - South Water Station
Unit G (SW/4, NE/4) Sec 26, T17S, R34E
Lea County, New Mexico
LAI Project No.: 8-0165

Sample ID	Date	Status	Depth (Ft)	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX	TPH C6-C28	Chlorides
RRAL:				0.2				50	5000	
BC-1	2/26/2009	In-Situ	5	<0.0012	<0.0023	<0.0012	<0.0012	<0.0012	**454**	**241**
SC-1	2/26/2009	In-Situ	3	<0.0011	<0.0022	<0.0011	<0.0011	<0.0011	**43.8**	**41.6**
EC-1	2/26/2009	In-Situ	3	<0.0011	<0.0022	<0.0011	<0.0011	<0.0011	**283**	**92.6**
WC-1	2/26/2009	In-Situ	3	<0.0011	<0.0021	<0.0011	<0.0011	<0.0011	**460**	**8.75**
NC-1	2/26/2009	In-Situ	3	<0.0011	<0.0023	<0.0011	<0.0011	<0.0011	**873**	**72.9**
B-6	2/26/2009	Excavated	5	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	**2,730**	**120**
B-7	2/26/2009	Excavated	5	<0.0013	<0.0025	**0.0017**	**0.0037**	**0.0054**	**19,600**	**23.4**
B-8	3/4/2009	In-Situ	6	--	--	--	--	--	<23.1	--
B-9	3/4/2009	In-Situ	6	--	--	--	--	--	<23.8	--
B-10	3/4/2009	In-Situ	10	--	--	--	--	--	<30.2	--
B-11	3/4/2009	In-Situ	10	--	--	--	--	--	<26.2	--

Notes

RRAL - Recommended Remediation Action Level

BTEX analyzed via EPA SW Method 8021B.

Total Petroleum Hydrocarbons analyzed via EPA Method 418.1.

Chlorides analyzed via EPA Method 300.

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

Bold indicates the analyte was detected.

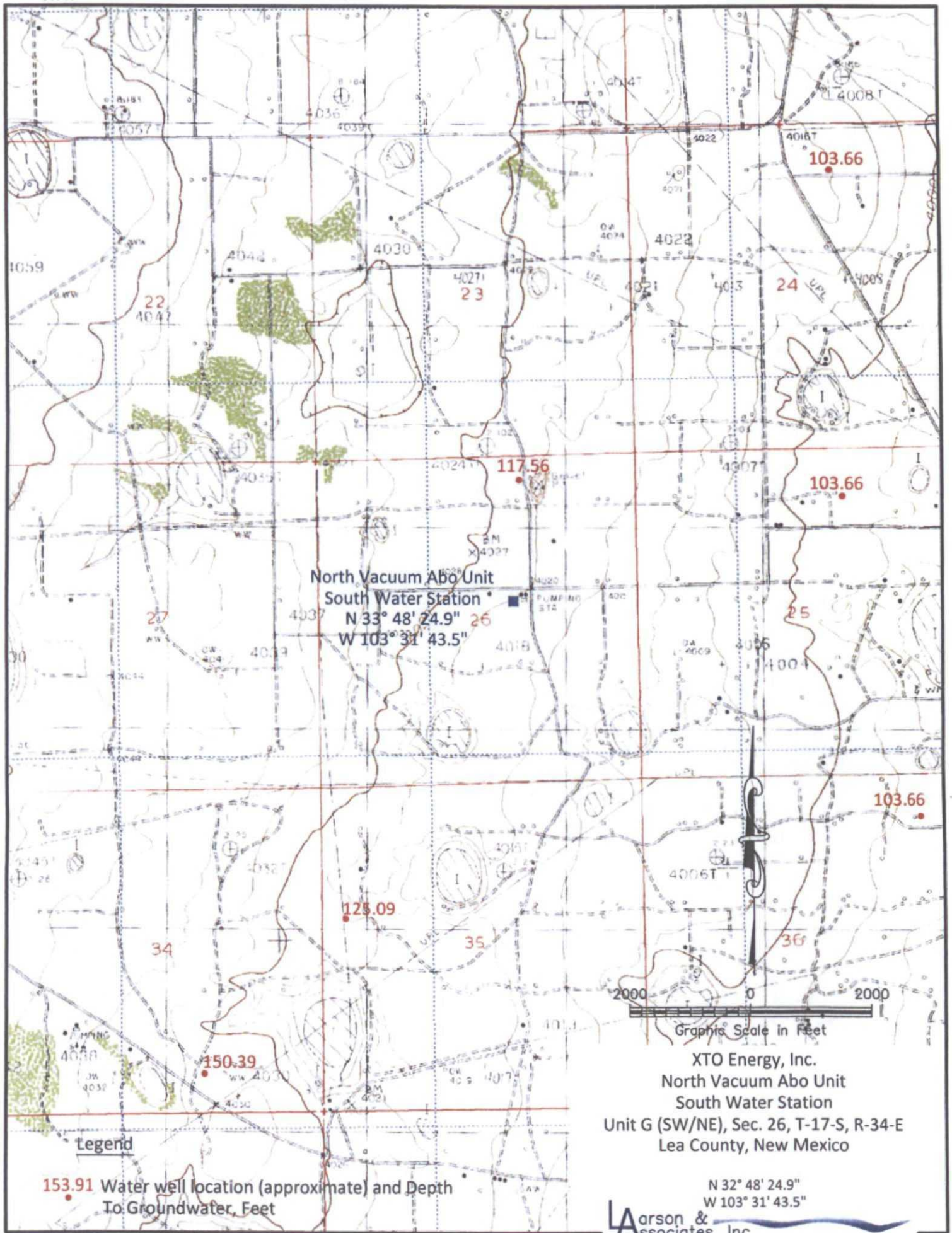
Bold and blue indicates the value exceeds NMOCD requirements.

TABLES

JWW

FIGURES

Y:\PROJECTS\XTO ENERGY\8-01\8-0165\8-0165 South Vacuum Abo Unit.dwg, 12/22/2008 3:55:16 PM



XTO Energy, Inc.
North Vacuum Abo Unit
South Water Station
Unit G (SW/NE), Sec. 26, T-17-S, R-34-E
Lea County, New Mexico

N 32° 48' 24.9"
W 103° 31' 43.5"

Larson & Associates, Inc.
Environmental Consultants

Figure 1 - Topographic Map

JWW

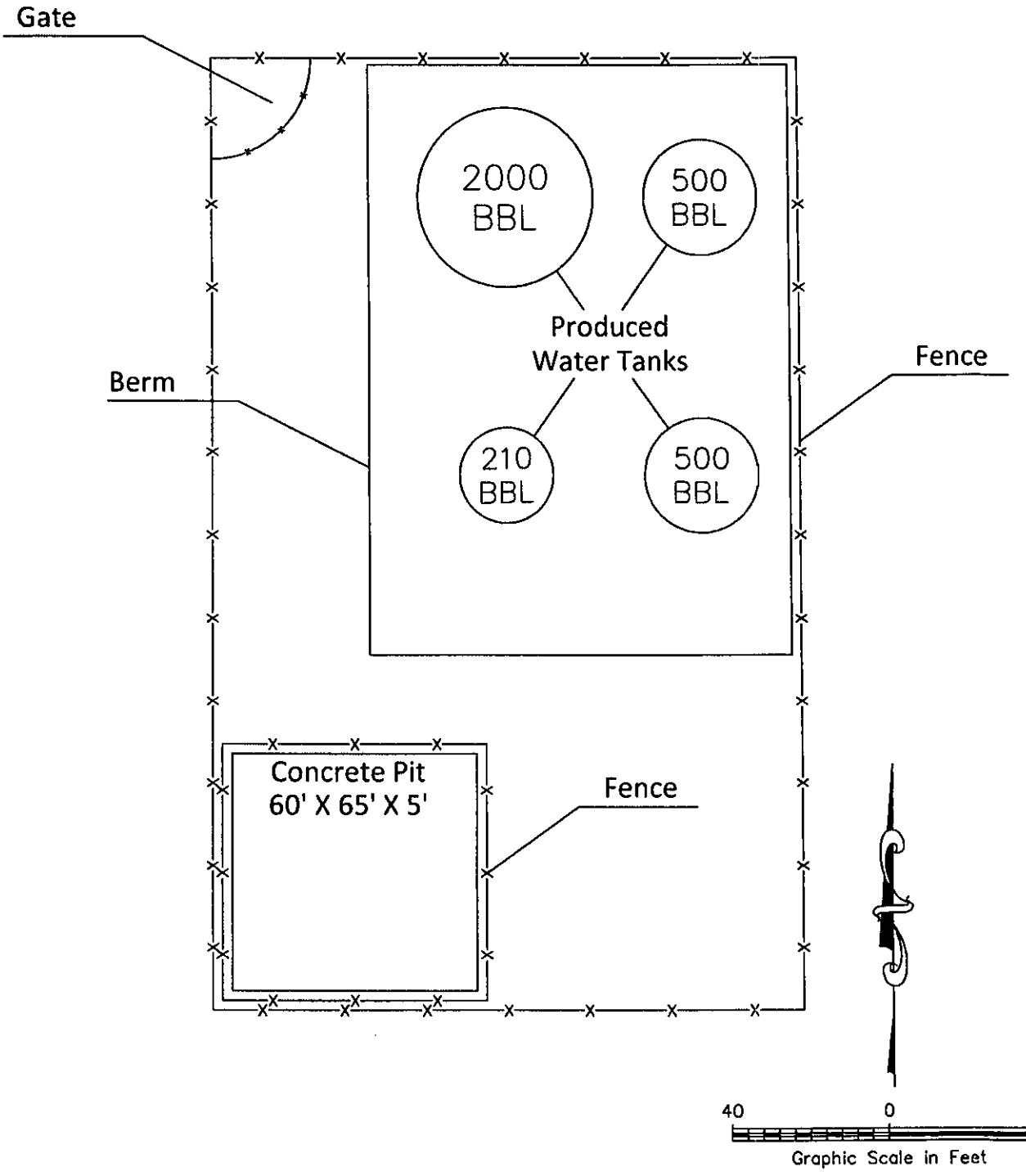
Y:\PROJECTS\XTO ENERGY\8-01\8-0165\8-0165 South Vacuum Abo Unit.dwg, 12/22/2008 3:04:09 PM

XTO Energy, Inc.
North Vacuum Abo Unit
South Water Station
Unit G (SW/NE), Sec. 26, T-17-S, R-34-E
Lea County, New Mexico

N 32° 48' 24.9"
W 103° 31' 43.5"

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial



XTO Energy, Inc.
North Vacuum Abo Unit
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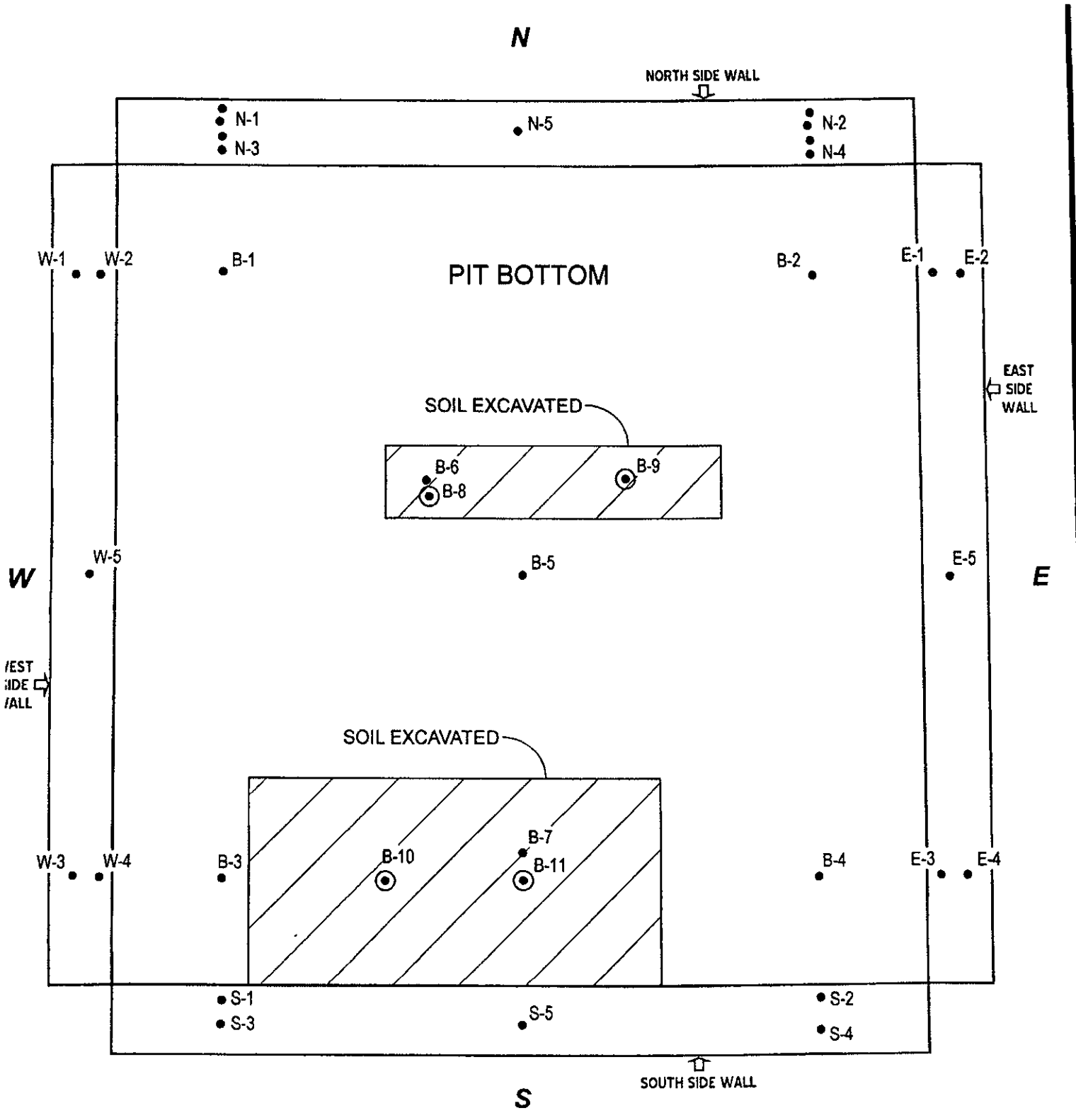
Unit G (SW/NE), Sec. 26, T-17-S, R-34-E
Lea County, New Mexico

N 32° 48' 24.9"
W 103° 31' 43.5"

Larson & Associates, Inc.
Environmental Consultants

Figure 3 - Site Drawing



LEGEND

B-5 ● SOIL SAMPLE LOCATION, MARCH 1, 2009

B-8 ◉ SOIL SAMPLE LOCATION, MARCH 5, 2009

SCALE: 1"=10'

FIGURE #1

LEA COUNTY, NEW MEXICO

XTO ENERGY, INC.

NORTH VACUUM ABO LEASE

SECTION 26, T-17-S, R-34-E,

SOUTH WATER STATION
UNIT "G" (SW 1/4, NE 1/4)

DATE: 03-14-09

NAME:

FILE: 8-0165

Larson & Associates, Inc.
Environmental Consultants

APD-A-

District I
1625 N. French Dr., Hobbs, NM 88240
District II
301 W. Grand Avenue, Artesia, NM 88210
District III
000 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 NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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
☒ 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.

Operator: XTO ENERGY, INC. OGRID #: 5380
Address: PERMIAN DIVISION – SE NEW MEXICO, P.O. BOX 700, EUNICE, NM 88231
Facility or well name: NORTH VACUUM ABO UNIT SOUTH WATER STATION / ABO WELL NO. 305 (NEAREST WELL)
API Number: 30-025-37971 OCD Permit Number:
U/L or Qtr/Qtr G Section 26 Township 17S Range 34E County: LEA
Center of Proposed Design: Latitude 32° 48' 24.9" Longitude 103° 31' 43.5" 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 6 inches ☐ LLDPE ☐ HDPE ☐ PVC ☒ Other CONCRETE
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: 3,470 bbl Dimensions: L 65' x W 60' x D 5'

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: bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
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_____

7.

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

☐ Screen ☐ Netting ☐ Other_____

☐ 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.**

Ground water 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	☐ Yes ☐ 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	☐ Yes ☐ 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ 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

11.
emporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
istructions: 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 H_2S, 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.***

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

- [X] 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): Guy Haykus Title: Superintendent

Signature: Date: December 23, 2008

e-mail address: William_Haykus@xtoenergy.com Telephone: (432) 682-8873

20.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: **Approval Date:** 2/4/09

Title: Environmental Engineer **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:**

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 indentify 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): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

APD-B-

XTO ENERGY
200 N. Loraine, Ste. 800
Midland, TX 79701
432.682.8873

February 18, 2009

Mr. Larry Hill
District Supervisor
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Notice of Pit Closure
XTO Energy, Inc.
North Vacuum Abo Lease – South Water Station
Unit G (SW/4, NE/4), Section 26
Township 17 South, Range 34 East
Lea County, New Mexico

Dear Mr. Hill,
Pursuant to paragraph (3) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico Oil Conservation Division (OCD) by XTO Energy, Inc. (XTO) of its intent to close a permanent pit at the North Vacuum Abo Lease, South Water Station (Facility) beginning on February 23, 2009. The Facility is located in Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 48' 24.9" north and 103° 31' 43.5" west, respectively. The nearest well is the North Vacuum Abo Lease Well #305 with API #30-025-37971. The closure will be in accordance with a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the OCD Environmental Bureau in Santa Fe, New Mexico, on February 4, 2009. Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.
Sincerely,

XTO Energy, Inc.

Guy Haykus
Production Superintendent
Direct Phone: 432.620.6705

Cc: Mark Larson/Larson & Associates, Inc.
DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr.-Midland
Kristy Ward/XTO Energy Inc/ Regulatory Analyst-Midland

XTO ENERGY
200 N. Loraine, Ste. 800
Midland, TX 79701
432.682.8873

February 9, 2009

Mr. Patrick Lyons, Commissioner
New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

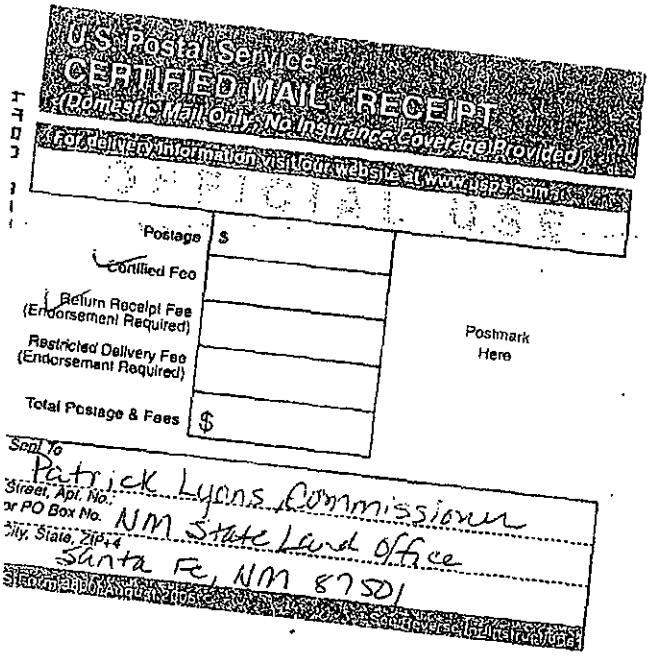
Re: Notice of Pit Closure
XTO Energy, Inc.
North Vacuum Abo Lease – South Water Station
Unit G (SW/4, NE/4), Section 26
Township 17 South, Range 34 East
Lea County, New Mexico

Dear Commissioner Lyons,
Pursuant to paragraph (1) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico State Land Office (SLO), as surface owner of record, by XTO Energy, Inc. (XTO) of its intent to close a permanent pit located at the North Vacuum Abo Lease – South Water Station (Facility) beginning February 23, 2009. The Facility is located in Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 48' 24.9" north and 103° 31' 43.5" west, respectively. The closure will be performed according to a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the New Mexico Oil Conservation Division (OCD) on February 4, 2009. The closure plan may be viewed at the OCD District 1 office located in Hobbs, New Mexico or with the OCD Environmental Bureau in Santa Fe, New Mexico.
Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.
Sincerely,

XTO Energy, Inc.

Guy Haykus
Production Superintendent

Cc: Myra Meyers/SLO Hobbs District
Mark Larson/Larson & Associates, Inc.
DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr.-Midland
Kristy Ward/XTO Energy Inc/ Regulatory Analyst-Midland



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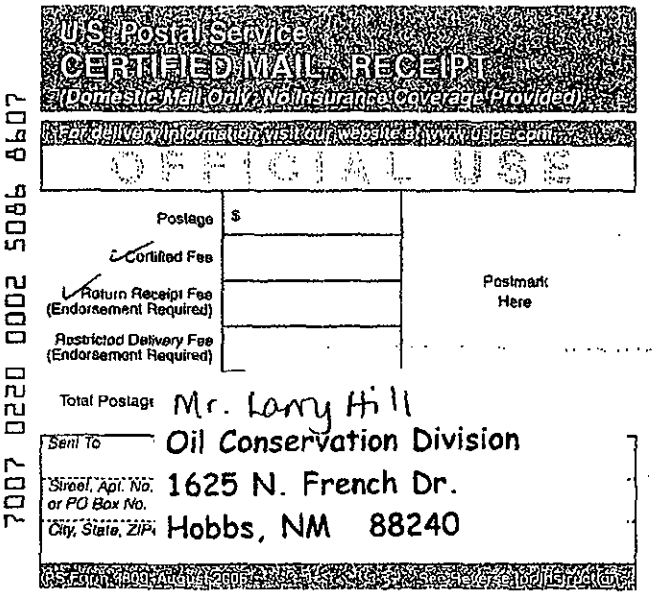
PS Form 3800, August 2006 See Reverse for Instructions



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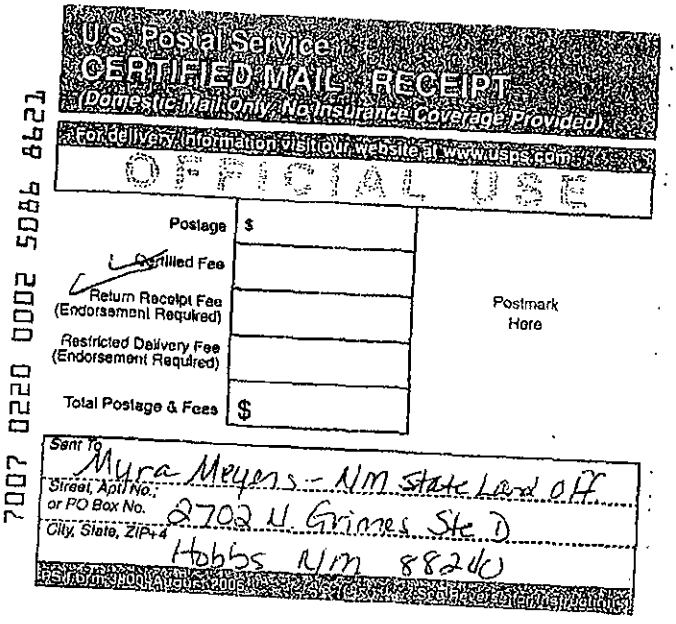
Sent To Mr. Larry Hill
Street, Apt. No.; or PO Box No. Oil Conservation Division
City, State, ZIP+4 1625 N. French Dr.
Hobbs, NM 88240
PS Form 3800, August 2006 See Reverse for Instructions



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Street, Apt. No.; or PO Box No. 2702 W. Grimes Ste D
City, State, ZIP+4 Hobbs NM 88240
PS Form 3800, August 2006 See Reverse for Instructions

APP-C

Analytical Report 326072

for

Larson & Associates

Project Manager: Michelle Green

Vacuum Water Station South

27-FEB-09

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

XENCO Laboratories

27-FEB-09

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

Reference: XENCO Report No: **326072**
Vacuum Water Station South
Project Address: 8-0165

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 326072. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 326072 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

XENCO Laboratories

Sample Cross Reference 326072

Larson & Associates, Midland, TX

Vacuum Water Station South

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BC-1	S	Feb-26-09 13:55		326072-001
SC-1	S	Feb-26-09 11:00		326072-002
EC-1	S	Feb-26-09 11:30		326072-003
WC-1	S	Feb-26-09 11:00		326072-004
NC-1	S	Feb-26-09 13:45		326072-005
B-7	S	Feb-26-09 14:00		326072-006
B-6	S	Feb-26-09 14:15		326072-007

Project Id:

Project Name: [illegible]

Contact: Michelle Green

Project Location: 8-0165

Date Received in Lab: Thu Feb-26-09 05:37 pm

Report Date: 27-FEB-09

Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	326072-001		326072-002		326072-003		326072-004		326072-005		326072-006	
	Field Id:	BC-1		SC-1		EC-1		WC-1		NC-1		B-7	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-26-09 13:55		Feb-26-09 11:00		Feb-26-09 11:30		Feb-26-09 11:00		Feb-26-09 13:45		Feb-26-09 14:00	
Anions by EPA 300	***Extracted:***												
	Analyzed:	Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		241	11.7	41.6	5.43	92.6	5.40	8.75	5.36	72.9	5.70	23.4	6.28
BTEX by EPA 8021B	***Extracted:***	Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00	
	Analyzed:	Feb-27-09 10:18		Feb-27-09 10:39		Feb-27-09 10:59		Feb-27-09 11:20		Feb-27-09 11:40		Feb-27-09 12:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0013
Toluene		ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0021	ND	0.0023	ND	0.0025
Ethylbenzene		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	0.0017	0.0013
m,p-Xylenes		ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0021	ND	0.0023	0.0037	0.0025
o-Xylene		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0013
Total Xylenes		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	0.0037	0.0013
Total BTEX		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	0.0054	0.0013
Percent Moisture	***Extracted:***												
	Analyzed:	Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		14.37	1.00	7.89	1.00	7.40	1.00	6.76	1.00	12.24	1.00	20.39	1.00
TPH by EPA 418.1	***Extracted:***												
	Analyzed:	Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH, Total Petroleum Hydrocarbons		454	11.7	43.8	10.9	283	10.8	460	10.7	873	11.4	19600	62.8

Brent Barron
Odessa Laboratory Director

Project Id:
Contact: Michelle Green
Project Location: 8-0165

Project Name: Vacuum [illegible]

Date Received in Lab: Thu Feb-26-09 05:37 pm
Report Date: 27-FEB-09
Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	326072-007					
	Field Id:	B-6					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Feb-26-09 14:15					
Anions by EPA 300	***Extracted:***						
	Analyzed:	Feb-27-09 09:27					
	Units/RL:	mg/kg	RL				
Chloride		120	5.20				
BTEX by EPA 8021B	***Extracted:***	Feb-27-09 08:00					
	Analyzed:	Feb-27-09 12:21					
	Units/RL:	mg/kg	RL				
Benzene		ND	0.0010				
Toluene		ND	0.0021				
Ethylbenzene		ND	0.0010				
m,p-Xylenes		ND	0.0021				
o-Xylene		ND	0.0010				
Total Xylenes		ND	0.0010				
Total BTEX		ND	0.0010				
Percent Moisture	***Extracted:***						
	Analyzed:	Feb-27-09 12:02					
	Units/RL:	%	RL				
Percent Moisture		3.80	1.00				
TPH by EPA 418.1	***Extracted:***						
	Analyzed:	Feb-27-09 08:47					
	Units/RL:	mg/kg	RL				
TPH, Total Petroleum Hydrocarbons		2730	10.4				

Brent Barron
Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders : 326072,

Project ID:

Lab Batch #: 751059 **Sample:** 525549-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02/27/09 08:56

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 751059 **Sample:** 525549-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02/27/09 09:17

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 751059 **Sample:** 525549-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02/27/09 09:58

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 751059 **Sample:** 326072-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 10:18

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 751059 **Sample:** 326072-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 10:39

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders : 326072,

Project ID:

Lab Batch #: 751059 **Sample:** 326072-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 10:59

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 751059 **Sample:** 326072-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 11:20

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 751059 **Sample:** 326072-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 11:40

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 751059 **Sample:** 326072-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 12:01

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0236	0.0300	79	80-120	**

Lab Batch #: 751059 **Sample:** 326072-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 12:21

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders : 326072,

Project ID:

Lab Batch #: 751059 **Sample:** 326072-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 12:42

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 751059 **Sample:** 326072-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 13:02

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Xenco Laboratories

Blank Spike Recovery

Project Name: Vacuum Water Station South

Work Order #: 326072 **Project ID:**

Lab Batch #: 751054 **Sample:** 751054-1-BKS **Matrix:** Solid

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** LATCOR

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

	BLANK /BLANK SPIKE RECOVERY STUDY					
Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	10.4	104	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Vacuum Water Station South

Work Order #: 326072 **Project ID:**

Analyst: ASA **Date Prepared:** 02/27/2009 **Date Analyzed:** 02/27/2009

Lab Batch ID: 751059 **Sample:** 525549-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1025	103	0.1	0.1038	104	1	70-130	35	
Toluene	ND	0.1000	0.1030	103	0.1	0.1045	105	1	70-130	35	
Ethylbenzene	ND	0.1000	0.1010	101	0.1	0.1027	103	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.2112	106	0.2	0.2145	107	2	70-135	35	
o-Xylene	ND	0.1000	0.1030	103	0.1	0.1050	105	2	71-133	35	

Analyst: ASA **Date Prepared:** 02/27/2009 **Date Analyzed:** 02/27/2009

Lab Batch ID: 751012 **Sample:** 751012-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by EPA 418.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	2500	2080	83	2500	2080	83	0	65-135	35	

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

Form 3 - MS Recoveries

Project Name: Vacuum Water Station South

Work Order #: 326072
Lab Batch #: 751054
Date Analyzed: 02/27/2009
QC- Sample ID: 325914-001 S
Reporting Units: mg/kg

Project ID:
Date Prepared: 02/27/2009
Batch #: 1
Analyst: LATCOR
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	92.6	114	210	103	80-120	

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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Vacuum Water Station South

Work Order # : 326072 **Project ID:**

Lab Batch ID: 751059 **QC- Sample ID:** 326072-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1086	0.0847	78	0.1086	0.0888	82	5	70-130	35	
Toluene	ND	0.1086	0.0791	73	0.1086	0.0830	76	5	70-130	35	
Ethylbenzene	ND	0.1086	0.0692	64	0.1086	0.0725	67	5	71-129	35	X
m,p-Xylenes	ND	0.2171	0.1443	66	0.2171	0.1518	70	5	70-135	35	X
o-Xylene	ND	0.1086	0.0691	64	0.1086	0.0730	67	5	71-133	35	X

Lab Batch ID: 751012 **QC- Sample ID:** 326072-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** ASA

Reporting Units: mg/kg

TPH by EPA 418.1 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	454	2920	2770	79	2920	2960	86	7	65-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

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

XENCO Laboratories

Sample Duplicate Recovery

Project Name: Vacuum Water Station South

Work Order #: 326072

Lab Batch #: 751054 **Project ID:**

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** LATCOR

QC- Sample ID: 325914-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	92.6	95.9	4	20	

Lab Batch #: 751040

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** BEV

QC- Sample ID: 326072-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	14.4	16.0	11	20	

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

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 36514

CHAIN-OF-CUSTODY

CLIENT: LARSON & ASSOCIATES
ADDRESS:
PHONE: FAX
DATA REPORTED TO: MICHELLE GREEN
ADDITIONAL REPORT COPIES TO:

DATE: 2/26/09 PAGE 1 OF 1
PO #: DHL WORK ORDER #:
PROJECT LOCATION OR NAME: 8-0165
CLIENT PROJECT #: COLLECTOR: R. BROOKS

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

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

326072

Field Sample I.D.	DHL Lab #	Date (2009)	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX X MTBE ☐ / 8021B	TRPH 418.1 X / TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE X ANIONS ☐ ALKALINITY ☐	EPA 300.1	FIELD NOTES
BC-1	1	2-26	1:55	S	8oz	1				X		X	X															X			Composite
SC-1	2		11:11																												
EC-1	3		11:30																												
WC-1	4		11:00																												
NC-1	5		1:45																												
B-7	6		2:00																												Grab
B-6	7		2:15																												Grab
TOTAL						7				7		7	7															7			

RELINQUISHED BY: (Signature) K.W. Brook DATE/TIME 2/26/09 RECEIVED BY: (Signature) Jeanne Fitch 02-26-09 1737

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH X CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☐
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 5.5 °C THERM #: ____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT X NOT USED
☐ CARRIER BILL # ____
☐ APC DELIVERY
☐ HAND DELIVERED

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Larson + Associates

Date/ Time: 02-26-09 @ 1737

Lab ID # : 326072

Initials: JMF

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	5.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

Analytical Report 326564

for

Larson & Associates

Project Manager: Michelle Green

Midland/Odessa Standard List of Methods

8-0165

10-MAR-09

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

10-MAR-09

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

Reference: XENCO Report No: **326564**
Midland/Odessa Standard List of Methods
Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 326564. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 326564 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

XENCO Laboratories

Sample Cross Reference 326564

Larson & Associates, Midland, TX

Midland/Odessa Standard List of Methods

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B-8 (0-1')	S	Mar-04-09 14:30	0 - 1 ft	326564-001
B-9 (0-1')	S	Mar-04-09 14:40	0 - 1 ft	326564-002
B-10 (5')	S	Mar-04-09 14:50	5 ft	326564-003
B-11 (5')	S	Mar-04-09 15:00	5 ft	326564-004

Project Id: 8-0165
Contact: Michelle Green
Project Location:

Date Received in Lab: Thu Mar-05-09 08:37 am
Report Date: 10-MAR-09
Project Manager: Brent Barron, II

Analysis Requested									
	Lab Id:	326564-001		326564-002		326564-003		326564-004	
	Field Id:	B-8 (0-1')		B-9 (0-1')		B-10 (5')		B-11 (5')	
	Depth:	0-1 ft		0-1 ft		5 ft		5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-04-09 14:30		Mar-04-09 14:40		Mar-04-09 14:50		Mar-04-09 15:00	
Percent Moisture	***Extracted:***								
	Analyzed:	Mar-10-09 17:00		Mar-10-09 17:00		Mar-10-09 17:00		Mar-10-09 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL
Percent Moisture		13.56	1.00	15.99	1.00	33.72	1.00	23.75	1.00
TPH by EPA 418.1	***Extracted:***								
	Analyzed:	Mar-10-09 11:15		Mar-10-09 11:15		Mar-10-09 11:15		Mar-10-09 11:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH, Total Petroleum Hydrocarbons		ND	23.1	ND	23.8	ND	30.2	ND	26.2

Brent Barron
Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

* Outside XENCO's scope of NELAC Accreditation.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

BS / BSD Recoveries

Project Name: Midland/Odessa Standard List of Methods

Work Order #: 326564 **Project ID:** 8-0165

Analyst: ASA **Date Prepared:** 03/10/2009 **Date Analyzed:** 03/10/2009

Lab Batch ID: 752019 **Sample:** 752019-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by EPA 418.1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	2500	1830	73	2500	1840	74	1	65-135	35	

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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Midland/Odessa Standard List of Methods

Work Order # : 326564 **Project ID:** 8-0165

Lab Batch ID: 752019 **QC- Sample ID:** 326564-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/10/2009 **Date Prepared:** 03/10/2009 **Analyst:** ASA

Reporting Units: mg/kg

TPH by EPA 418.1 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	2890	2820	98	2890	2190	76	25	65-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

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

XENCO Laboratories

Sample Duplicate Recovery

Project Name: Midland/Odessa Standard List of Methods

Work Order #: 326564

Lab Batch #: 752072 **Project ID:** 8-0165

Date Analyzed: 03/10/2009 **Date Prepared:** 03/10/2009 **Analyst:** BEV

QC- Sample ID: 326967-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture **Analyte**	**Parent Sample Result [A]**	**Sample Duplicate Result [B]**	**RPD**	**Control Limits %RPD**	**Flag**
Percent Moisture	1.18	ND	NC	20	

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

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 03-04-09 PAGE 1 OF 1
PO #: _____ LAB WORK ORDER #: _____
PROJECT LOCATION OR NAME: _____
LAI PROJECT #: 8-0165 COLLECTOR: R. Brooks

TRRP report? ☐ Yes ☐ No
TIME ZONE: Time zone/State: MST

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	8081 PESTICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	TOTAL METALS (RCRA) ☐	LEAD - TOTAL ☐	RCI ☐	TDS ☐	pH ☐	EXPLOSIVES ☐	CHLORIDE ☐	FIELD NOTES
B-8 (0-1')		03-04-09	2:36	S	1				X		X																	326564-01
B-9 (0-1')		↓	2:40	↓	↓				↓		↓																	-02
B-10 (5')			2:50																									-03
B-11 (5')		↓	3:00	↓	↓				↓		↓																	-04
TOTAL					4				4		4																	

RELINQUISHED BY: (Signature) — DATE/TIME: 3/5/09 8:32A — RECEIVED BY: (Signature) — 03/05/09 8:37
RELINQUISHED BY: (Signature) — DATE/TIME — RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) — DATE/TIME — RECEIVED BY: (Signature)

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

LABORATORY USE ONLY:
RECEIVING TEMP: -0.5 THERM #: A-7
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED 4-9oz g.c.
No seals

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Larson & Assoc.

Date/ Time: 03/05/09 8:37

Lab ID # : 326564

Initials: gwb

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	-0.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	Yes	No	(Not Applicable)	

Variance Documentation

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

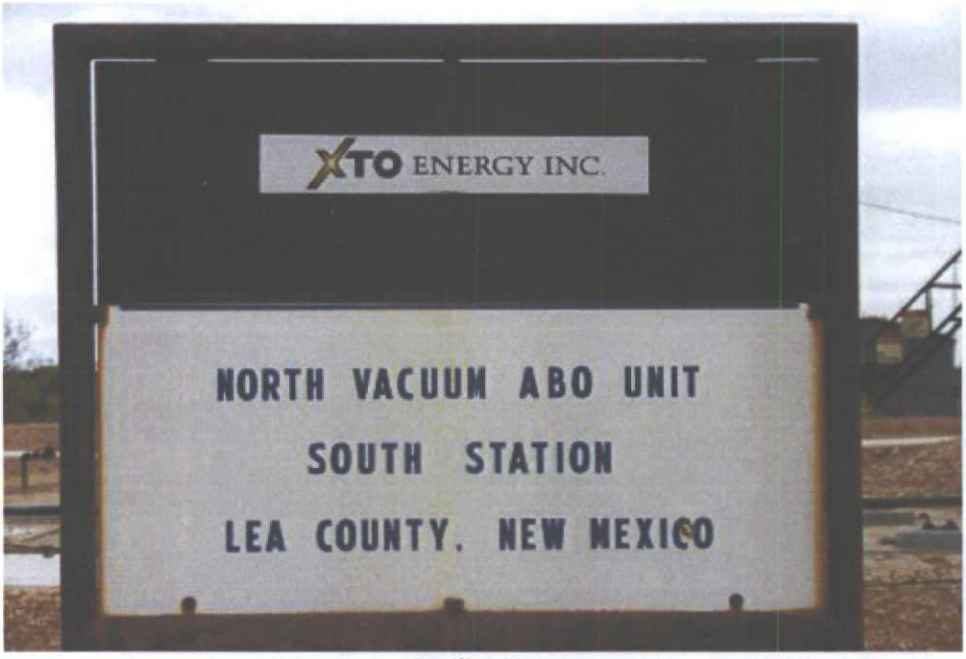
Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

APD-D-



Facility Sign

Permanent Pit Prior to Closure Activities

Drained Pit Ready for Inspection and Closure

Concrete Removed and Vadose Zone Exposed for Inspection

View of Native Soil in the Sidewall

Backfilled Pit Awaiting Reseeding

API # 30-025-37971

Final Closure Report

XTO Energy, Inc.
North Vacuum Abo Unit, South Water Station
Unit G (SW/4, NE/4), Section 26, T17S, R34E
Lea County, NM

Project No. 8-0165

Prepared by:

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

October 9, 2009

Table of Contents

Tables

Figures

Appendices

1.0 Executive Summary

The following report documents the final closure of the permanent pit associated with the XTO Energy (XTO) North Vacuum Abo Unit South Water Station (Site) located in Lea County, New Mexico. The legal description of the Site is Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East (Figure 1). The geodetic location is N32° 48' 24.9", W103° 31' 43.5".

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

2.0 Operator Information

Primary Contact:	Mr. Jerry Parker
Address:	XTO Energy Inc., Permian Division – SE New Mexico
	PO Box 700
	Eunice, New Mexico 88231
Office:	575.394.2089
Cell:	575.441.1628
Secondary Contact:	Guy Haykus
Address:	XTO Energy Inc.
	Midland Office
	200 N. Loraine Street, Suite 800
	Midland, Texas 79701
Office:	432.682.8873

3.0 Closure Actions

3.1 Location and Siting Description

The Site has a geodetic location of N32° 48' 24.9", W103° 31' 43.5", and is located in rural Lea County about 14 miles west-southwest of Lovington, New Mexico. The approximately 0.83 acre Site consisted of four above-ground storage tanks, and a concrete-lined permanent pit with an approximate capacity of 3,300 barrels. The Facility is covered with crushed caliche rock and is flat to very gently sloping (Figures 2 and 3).

The Facility's siting criteria presented the following findings:

- Groundwater is about 120 feet below ground surface based on records from the New Mexico State Engineer (NMSE).
- No continuously flowing watercourse is within 300 horizontal feet of the Facility.
- No surface water features, including lakes, rivers, ponds, arroyos, lakebed, sinkhole, or playa lake, are located within 200 horizontal feet of Facility.
- No permanent residence, school, hospital, institution, or church is within 300 horizontal feet of Facility.

- No private, domestic fresh-water well or spring are within 500 horizontal feet of Facility.
- No fresh water wells or springs are located within approximately 1000 horizontal feet of the Facility.
- The Facility is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance.
- The Facility is not within 500 feet an area designated as wetlands.
- The Facility is not within an area overlying a subsurface mine.
- The Facility is not within an unstable area.
- The Facility is not within a 100-year flood plain.

3.2 Landowner and OCD notifications

A pit closure plan was submitted to the OCD in Santa Fe on December 23, 2008, and signed by the OCD February 4, 2009. A copy of the signed C-144 closure plan is provided in Appendix A. Upon approval of the closure plan and prior to commencing closure activities, notification of closure was sent to the New Mexico State Land Office (the surface owner) and the OCD. Copies of the notification letters are provided in Appendix B.

3.3 Pit Closure Activities

On February 23, 2009, XTO removed ancillary equipment (i.e. fencing, netting, etc.) for salvage or scrap metal. A track-mounted hammer hoe was used to remove the concrete lining from the pit. Approximately 18 cubic yards of concrete and 252 cubic yards of excavated soil were disposed at Controlled Recovery, Inc. (OCD Permit R9166). An Appendix C contains waste manifests for this project.

On February 26, 2009, Larson & Associates, Inc. (LAI) personnel collected 5-part composite soil samples from the bottom (BC-1) and sidewalls (SC-1, EC-1, WC-1 and NC-1) of the pit following removal of the concrete and two discrete samples (B-6 and B-7) from the bottom of the excavation where staining was observed. Xenco Laboratories analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1.

No benzene, BTEX or chlorides were reported above OCD reporting limits (0.2 milligrams per kilogram [mg/Kg] for benzene; 50 mg/Kg for BTEX; and 250 mg/Kg for chlorides). TPH was detected above the OCD limit (100 mg/Kg) in the discrete sample B-7 (19,600 mg/Kg).

An initial C-141 was submitted to the OCD District 1, Hobbs office (Appendix D) on March 2, 2009, and remediation activities were conducted. The OCD District 1 office issued remediation project number 1RP-09-3-2115.

3.4 Remedial Investigation

XTO delineated the extent of the TPH and excavated the impacted soils beginning March 3, 2009. On March 4, 2009, LAI collected four additional discrete samples to confirm field delineation. Xenco laboratory analyzed the additional samples, but no TPH was reported above the method detection limits. Table 1 presents a summary of the laboratory analysis.

Based on the soil sample results, XTO requested approval from OCD District 1 to close the excavation according to the requirements of the closure plan approved by the OCD Santa Fe office. Approval was granted. An additional 192 cubic yards of soil was excavated and disposed at the CRI facility. Appendix E presents the final C-141 and photo-documentation. Manifests of contaminated soil disposal are presented in Appendix F.

4.0 Conclusion and Recommendation

Based on the documented activities performed in conformance with the permanent pit closure plan, LAI requests approval of final site closure for this Site.

Table 1
Soil Analytical Data Summary
XTO Energy, Inc.
North Vacuum Abo Lease - South Water Station
Unit G (SW/4, NE/4) Sec 26, T17S, R34E
Lea County, New Mexico
LAI Project No.: 8-0165

Sample ID	Date	Status	Depth (Ft)	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX	TPH C6-C28	Chlorides
RRAL:				0.2				50	5000	
BC-1	2/26/2009	In-Situ	5	<0.0012	<0.0023	<0.0012	<0.0012	<0.0012	**454**	**241**
SC-1	2/26/2009	In-Situ	3	<0.0011	<0.0022	<0.0011	<0.0011	<0.0011	**43.8**	**41.6**
EC-1	2/26/2009	In-Situ	3	<0.0011	<0.0022	<0.0011	<0.0011	<0.0011	**283**	**92.6**
WC-1	2/26/2009	In-Situ	3	<0.0011	<0.0021	<0.0011	<0.0011	<0.0011	**460**	**8.75**
NC-1	2/26/2009	In-Situ	3	<0.0011	<0.0023	<0.0011	<0.0011	<0.0011	**873**	**72.9**
B-6	2/26/2009	Excavated	5	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	**2,730**	**120**
B-7	2/26/2009	Excavated	5	<0.0013	<0.0025	**0.0017**	**0.0037**	**0.0054**	**19,600**	**23.4**
B-8	3/4/2009	In-Situ	6	--	--	--	--	--	<23.1	--
B-9	3/4/2009	In-Situ	6	--	--	--	--	--	<23.8	--
B-10	3/4/2009	In-Situ	10	--	--	--	--	--	<30.2	--
B-11	3/4/2009	In-Situ	10	--	--	--	--	--	<26.2	--

Notes

RRAL - Recommended Remediation Action Level

BTEX analyzed via EPA SW Method 8021B.

Total Petroleum Hydrocarbons analyzed via EPA Method 418.1.

Chlorides analyzed via EPA Method 300.

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

Bold indicates the analyte was detected.

Bold and blue indicates the value exceeds NMOCD requirements.

TABLES

FIGURES

JWW

Y:\PROJECTS\XTO ENERGY\8-01\8-0165\8-0165 South Vacuum Abo Unit.dwg, 12/22/2008 3:55:16 PM

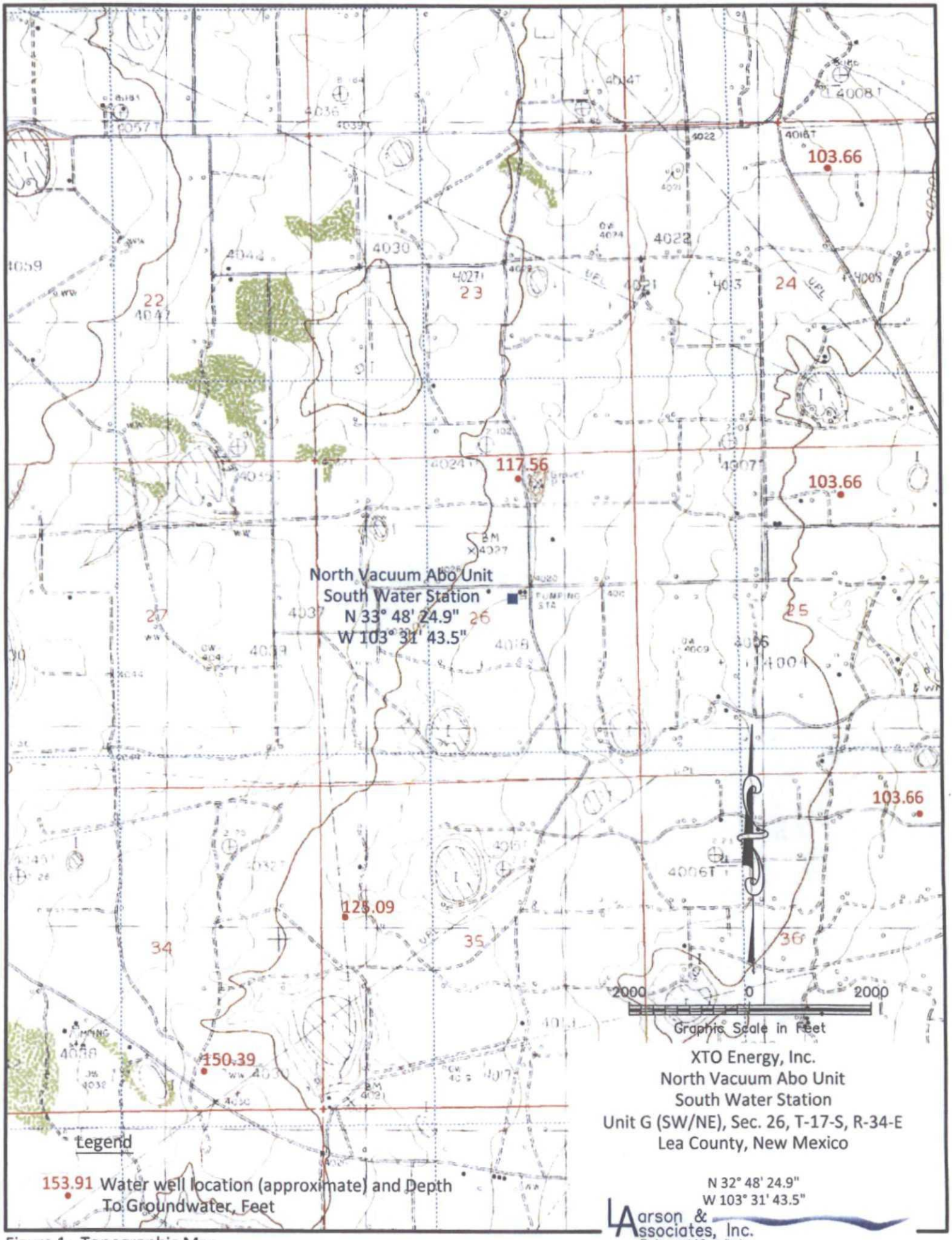


Figure 1 - Topographic Map

JWW

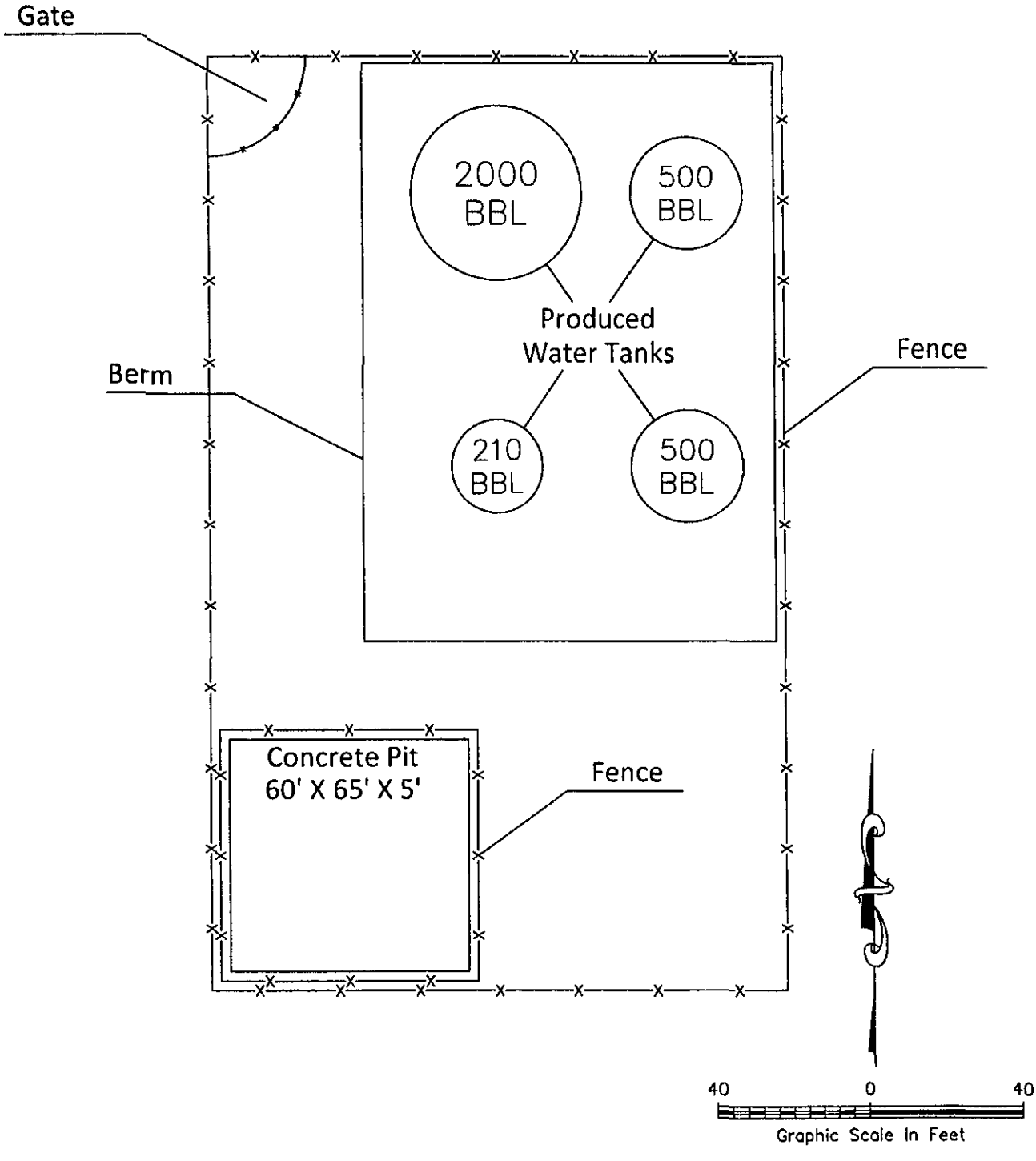
Y:\PROJECTS\XTO ENERGY\8-01\8-0165\8-0165 South Vacuum Abo Unit.dwg, 12/22/2008 3:04:09 PM

XTO Energy, Inc.
North Vacuum Abo Unit
South Water Station
Unit G (SW/NE), Sec. 26, T-17-S, R-34-E
Lea County, New Mexico

N 32° 48' 24.9"
W 103° 31' 43.5"

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial

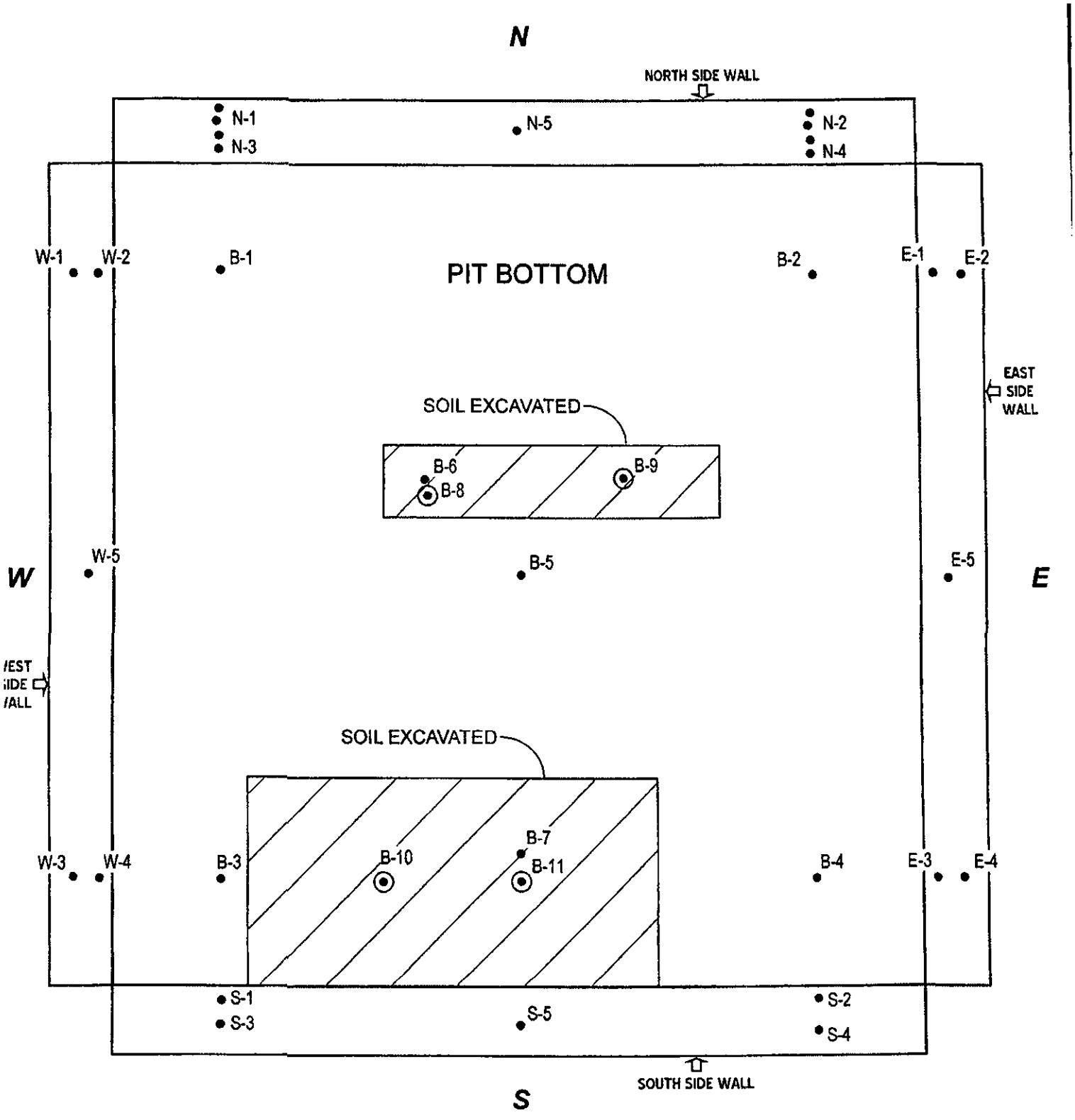


XTO Energy, Inc.
North Vacuum Abo Unit
South Water Station
Unit G (SW/NE), Sec. 26, T-17-S, R-34-E
Lea County, New Mexico

N 32° 48' 24.9"
W 103° 31' 43.5"

Larson & Associates, Inc.
Environmental Consultants

Figure 3 - SIte Drawing



LEGEND	
B-5 ●	SOIL SAMPLE LOCATION, MARCH 1, 2009
B-8 ◉	SOIL SAMPLE LOCATION, MARCH 5, 2009

SCALE: 1"=10'

FIGURE #1

LEA COUNTY, NEW MEXICO

XTO ENERGY, INC.

NORTH VACUUM ABO LEASE

SECTION 28, T-17-S, R-34-E,

SOUTH WATER STATION
UNIT "G" (SW 1/4, NE 1/4)

DATE:	03-14-09
NAME:	
FILE:	8-0165

Larson & Associates, Inc.
Environmental Consultants

APD-A-

District I
1625 N. French Dr., Hobbs, NM 88240
District II
301 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 NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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
☒ 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.

Operator: XTO ENERGY, INC. OGRID #: 5380

Address: PERMIAN DIVISION – SE NEW MEXICO, P.O. BOX 700, EUNICE, NM 88231

Facility or well name: NORTH VACUUM ABO UNIT SOUTH WATER STATION / ABO WELL NO. 305 (NEAREST WELL)

API Number: 30-025-37971 OCD Permit Number:

U/L or Qtr/Qtr G Section 26 Township 17S Range 34E County: LEA

Center of Proposed Design: Latitude 32° 48' 24.9" Longitude 103° 31' 43.5" 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 6 inches ☐ LLDPE ☐ HDPE ☐ PVC ☒ Other CONCRETE

☐ String-Reinforced

Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: 3,470 bbl Dimensions: L 65' x W 60' x D 5'

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: bbl Type of fluid:

Tank Construction material:

☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other

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_____

7.

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

☐ Screen ☐ Netting ☐ Other_____

☐ 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.**

Ground water 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	☐ Yes ☐ 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	☐ Yes ☐ 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ 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

11.
emporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
nstructions: 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 nd 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 H_2S, 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.***

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

- [X] 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): Guy Haykus Title: Superintendent

Signature: [signature] Date: December 23, 2008

e-mail address: William_Haykus@xtoenergy.com Telephone: (432) 682-8873

20.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: [signature] **Approval Date:** 2/4/09

Title: Environmental Engineer **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:**

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 indentify 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): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

APD-B-

XTO ENERGY
200 N. Loraine, Ste. 800
Midland, TX 79701
432.682.8873

February 18, 2009

Mr. Larry Hill
District Supervisor
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Notice of Pit Closure
XTO Energy, Inc.
North Vacuum Abo Lease – South Water Station
Unit G (SW/4, NE/4), Section 26
Township 17 South, Range 34 East
Lea County, New Mexico

Dear Mr. Hill,
Pursuant to paragraph (3) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico Oil Conservation Division (OCD) by XTO Energy, Inc. (XTO) of its intent to close a permanent pit at the North Vacuum Abo Lease, South Water Station (Facility) beginning on February 23, 2009. The Facility is located in Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 48' 24.9" north and 103° 31' 43.5" west, respectively. The nearest well is the North Vacuum Abo Lease Well #305 with API #30-025-37971. The closure will be in accordance with a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the OCD Environmental Bureau in Santa Fe, New Mexico, on February 4, 2009. Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.
Sincerely,

XTO Energy, Inc.

Guy Haykus
Production Superintendent
Direct Phone: 432.620.6705

Cc: Mark Larson/Larson & Associates, Inc.
DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr.-Midland
Kristy Ward/XTO Energy Inc/ Regulatory Analyst-Midland

XTO ENERGY
200 N. Loraine, Ste. 800
Midland, TX 79701
432.682.8873

February 9, 2009

Mr. Patrick Lyons, Commissioner
New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Re: Notice of Pit Closure
XTO Energy, Inc.
North Vacuum Abo Lease – South Water Station
Unit G (SW/4, NE/4), Section 26
Township 17 South, Range 34 East
Lea County, New Mexico

Dear Commissioner Lyons,
Pursuant to paragraph (1) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico State Land Office (SLO), as surface owner of record, by XTO Energy, Inc. (XTO) of its intent to close a permanent pit located at the North Vacuum Abo Lease – South Water Station (Facility) beginning February 23, 2009. The Facility is located in Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 48' 24.9" north and 103° 31' 43.5" west, respectively. The closure will be performed according to a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the New Mexico Oil Conservation Division (OCD) on February 4, 2009. The closure plan may be viewed at the OCD District 1 office located in Hobbs, New Mexico or with the OCD Environmental Bureau in Santa Fe, New Mexico.
Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.
Sincerely,

XTO Energy, Inc.

Guy Haykus
Production Superintendent

Cc: Myra Meyers/SLO Hobbs District
Mark Larson/Larson & Associates, Inc.
DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr.-Midland
Kristy Ward/XTO Energy Inc/ Regulatory Analyst-Midland

U.S. Postal Service
CERTIFIED MAIL 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	$

Postmark Here

Sent To: Patrick Lyons Commissioner
Street, Apt. No., or PO Box No.: NM State Land Office
City, State, ZIP+4: Santa Fe, NM 87501

7007 0220 0002 5086 8607

U.S. Postal Service
CERTIFIED MAIL 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	Mr. Larry Hill

Postmark Here

Sent To: Oil Conservation Division
Street, Apt. No., or PO Box No.: 1625 N. French Dr.
City, State, ZIP+4: Hobbs, NM 88240

7007 0220 0002 5086 8621

U.S. Postal Service
CERTIFIED MAIL 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	$

Postmark Here

Sent To: Myra Meyers - NM State Land Off
Street, Apt. No., or PO Box No.: 2702 N. Grimes Ste D
City, State, ZIP+4: Hobbs NM 88240

-APP- C-

V-11920

Invoice

Controlled Recovery Inc.
4507 W Carlsbad Highway
PO Box 388
Hobbs NM 88240
United States
505-393-1079

REC'D/MIDLAND
FEB 27 2009

Date	2/25/2009
Invoice #	63531
Terms	Net 30
Due Date	3/27/2009
PO #	
Generator	XTO
Memo	
Lease	SOUTH ABO UNIT
Well	
Rig	
Company Man	

Bill To

XTO ENERGY INC
200 N LORRAINE STREET
SUITE 800
MIDLAND TX 79701-4754
United States

Contaminated Soil	8	CONCRETE	18.00	144.00	212900	2/24/2009	HUNGRY HORSE	
Contaminated Soil	10	CONCRETE	18.00	180.00	212954	2/24/2009	HUNGRY HORSE	

=0

Subtotal	324.00
Tax (NM Sales Tax 5.375%)	17.42
Total	$341.42

TOP of X

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name SOUTH ABOA UNIT

Trucking Company HUNGRY HORSE | Vehicle Number 01 | Driver (Print) TONY

Date 2-24-09 | Time 9:30 a.m. / p.m.

Type of Material

☐ Fluids ☐ Soils

☐ Tank Bottoms ☒ Other Material *(List Description Below)* Receiving Area 50/57

DESCRIPTION

CEMENT (CONCRETE)

Volume of Material ☐ Bbls. _____ ☒ Yard 8 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

212900

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name SOUTH ABOA UNIT

Trucking Company HUNGERY HORSE | Vehicle Number 01 | Driver (Print) TRAY

Date 2-24-09 | Time 12:30 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☒ Other Material *(List Description Below)* Receiving Area SOIL

DESCRIPTION

COMPLETE

Volume of Material ☐ Bbls. _____ ☒ Yard 10 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☒ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

212954

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

V-11920

Invoice

Controlled Recovery Inc.
4507 W Carlsbad Highway
PO Box 388
Hobbs NM 88240
United States
505-393-1079

REC'D/MIDLAND
FEB 27 2009

Date	2/26/2009
Invoice #	63566
Terms	Net 30
Due Date	3/28/2009
PO #	
Generator	XTO
Memo	
Lease	NVAU
Well	SOUTH
Rig	
Company Man	

O-2-25-09

Bill To
XTO ENERGY INC
200 N LORRAINE STREET
SUITE 800
MIDLAND TX 79701-4754
United States

Contaminated Soil	12	18.00	216.00	213165	2/25/2009	HUNGRY HORSE
Contaminated Soil	24	18.00	432.00	213173	2/25/2009	AMIGO
Contaminated Soil	12	18.00	216.00	213131	2/25/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	213101	2/25/2009	HUNGRY HORSE

Subtotal	1,080.00
Tax (NM Sales Tax 5.375%)	58.05
Total	$1,138.05

TO Pay

NVA South Water Station
AFE # 900425-113253

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to

Address

Company/Generator XTO

Lease Name [illegible] NVAU South

Trucking Company [illegible]	Vehicle Number 02	Driver (Print) [illegible]
Date 2-25-09	Time 2:16 a.m. / p.m.	

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 50-51

DESCRIPTION - Contaminated Soil

Volume of Material ☐ Bbls. ☑ Yard 12 ☐ Gallons

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☑ RCRA-Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval #

Agent [signature] (Signature)

CRI Representative [signature] (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

213165

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAW South Water Station

Trucking Company Amigo | Vehicle Number 4 | Driver (Print) Herman

Date 2.25.09 | Time 2:44 a.m. / p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SW-SW

DESCRIPTION Caliche Soil

Volume of Material ☐ Bbls. _____ ☑ Yard 20 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☑ RCRA-Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval #: _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213173

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - 47581

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU South Water Station

Trucking Company Hendrix Leasing | Vehicle Number 07 | Driver (Print) Benny

Date 2-25-09 | Time 12:20 a.m./p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 50-51

DESCRIPTION Cement

Volume of Material ☐ Bbls. _____ ☑ Yard 12 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☑ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213131

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to ______ Gree Hondson

Address ______

Company/Generator XTO

Lease Name NVAU South Water Station

Trucking Company Hungry Horse | Vehicle Number 02 | Driver (Print) Barry

Date 2-25-09 | Time 10:20 a.m. / p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☑ Other Material *(List Description Below)* Receiving Area 50 51

DESCRIPTION Concrete Dirt

Volume of Material ☐ Bbls. ______ ☑ Yard 12 ☐ Gallons ______

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☑ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # ______

Agent ______ (Signature) Ron Martinez

CRI Representative ______ (Signature) [signature]

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213101

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER • #7521

V-11920

Invoice

Controlled Recovery Inc.
4507 W Carlsbad Highway
PO Box 388
Hobbs NM 88240
United States
505-393-1079

REC'D/MIDLAND
MAR 0 4 2009

Date	2/27/2009
Invoice #	63606
Terms	Net 30
Due Date	3/29/2009
PO #	
Generator	XTO
Memo	
Lease	NORTH VACUUM ABO
Well	SOUTH ST
Rig	
Company Man	

Bill To
XTO ENERGY INC
200 N LORRAINE STREET
SUITE 800
MIDLAND TX 79701-4754
United States

Contaminated Soil	20	18.00	360.00	213261	2/26/2009	R & M
Contaminated Soil	20	18.00	360.00	213264	2/26/2009	AMIGO
Contaminated Soil	20	18.00	360.00	213282	2/26/2009	R & M
Contaminated Soil	20	18.00	360.00	213294	2/26/2009	AMIGO
Contaminated Soil	20	18.00	360.00	213322	2/26/2009	AMIGO
Contaminated Soil	20	18.00	360.00	213353	2/26/2009	R & M
Contaminated Soil	20	18.00	360.00	213318	2/26/2009	R & M
Contaminated Soil	12	18.00	216.00	213363	2/26/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	213380	2/26/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	213324	2/26/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	213321	2/26/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	213301	2/26/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	213269	2/26/2009	HUNGRY HORSE

=0

Subtotal	3,816.00
Tax (NM Sales Tax 5.375%)	205.11
Total	$4,021.11

TO PG 1

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name North Vac ABO South SF.

Trucking Company R&M	Vehicle Number 113	Driver (Print) Jose
Date 2-26-09	Time 8:20	a.m./p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SO-51

DESCRIPTION Con't Soil

Volume of Material ☐ Bbls. _____ ☑ Yard 20 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213261

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name North Unit ABO South St

Trucking Company Amigo | Vehicle Number 4 | Driver (Print) Herman

Date 2-26-09 | Time 8:38 a.m. / p.m.

Type of Material

☐ Fluids ☐ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area Soil

DESCRIPTION Cont. Soil

Volume of Material ☐ Bbls. _____ ☑ Yard 20 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval# _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

213264

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO - North Jal

Lease Name ABO South St

Trucking Company R & M | Vehicle Number 113 | Driver (Print) Jesus

Date 2-26-09 | Time 10:20 a.m. / p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area Soil

DESCRIPTION Tank Bottom

Volume of Material ☐ Bbls. _____ ☐ Yard 20 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☑ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

213282

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name North Vac A30 - South ST

Trucking Company Amigo | Vehicle Number 4 | Driver (Print) Hinman

Date 2-26-09 | Time 10:35 a.m./p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SO-ST

DESCRIPTION Contaminated Soil

Volume of Material ☐ Bbls. _____ ☑ Yard 20 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213294

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

ONTROLLED RECOVERY, I .

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com
NMOCD Order R9166

Bill to ______________________

Address ______________________

Company/Generator XTO

Lease Name North Vac ABO South ST

Trucking Company Amigo | Vehicle Number 6 | Driver (Print) Herman

Date 7-26-09 | Time 12:35 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils
☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area S2 ST

DESCRIPTION

Volume of Material ☐ Bbls. ______ ☐ Yard 20 ______ ☐ Gallons ______
☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

CRI Approval # ______

Agent ______ (Signature)

CRI Representative ______ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213322

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, I...

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name North Vac ABO South SF

Trucking Company R.M. | Vehicle Number 173 | Driver (Print) Jesus

Date 2-26-09 | Time 2:30 a.m. / p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SO.ST

DESCRIPTION Land Farm

Volume of Material ☐ Bbls. ☑ Yard 20 ☐ Gallons

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval #

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

213353

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com
NMOCD Order R9166

Bill to ______________________

Address ______________________

Company/Generator XTO

Lease Name North Vac ABO South St.

Trucking Company R M | Vehicle Number 113 | Driver (Print) Jesus

Date 2-26-09 | Time 12:24 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils
☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 50-57

DESCRIPTION

Tank Sect

Volume of Material ☐ Bbls. ______ ☒ Yard 20 ______ ☐ Gallons ______

☐ Wash Out ☐ Call Out ☒ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # ______________________

Agent Jesus Lopez
(Signature)

CRI Representative [signature]
(Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213318

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

..ONTROLLED RECOVERY, IN .

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com
NMOCD Order R9166

Bill to

Address

Company/Generator XTO

Lease Name North Vac ABO South St.

Trucking Company Hungry Horse | Vehicle Number 02 | Driver (Print) Benny

Date 2-24-09 | Time 3:00 a.m. / p.m.

Type of Material

- ☐ Fluids
- ☑ Soils
- ☐ Tank Bottoms
- ☐ Other Material *(List Description Below)*

Receiving Area 50.51 Cont. Soil

DESCRIPTION

Volume of Material ☐ Bbls. ______ ☑ Yard 12 ☐ Gallons ______

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # ______

Agent [signature] (Signature)

CRI Representative [signature] (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213363

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com
NMOCD Order R9166

Bill to ____________________

Address ____________________

Company/Generator XTO

Lease Name North Vac ABO South St.

Trucking Company Hungry Horse | Vehicle Number 01 | Driver (Print) CD

Date 2-26-09 | Time 3:35 a.m. / p.m.

Type of Material

☐ Fluids ☑ Soils
☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 50-54

DESCRIPTION

Volume of Material ☐ Bbls. ______ ☑ Yard 12 ☐ Gallons ______

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # ____________________

Agent ____________________
(Signature)

CRI Representative [signature] [signature]
(Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

213380

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

ONTROLLED RECOVERY, I

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to ______

Address ______

Company/Generator XTO

Lease Name North Vac ABO South St

Trucking Company ______ Vehicle Number 02 Driver (Print) ______

Date 2-26-09 Time 12:58 a.m. / p.m.

Type of Material

☐ Fluids ☑ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 50 57

DESCRIPTION ______

Volume of Material ☐ Bbls. ______ ☑ Yard 12 ☐ Gallons ______

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # ______

Agent ______ (Signature)

CRI Representative ______ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213324

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name Monk Unit ABO South St. CD

Trucking Company Hungry Horse | Vehicle Number ~~OR~~ 91 | Driver (Print) ~~Brandy~~

Date 2-22-05 | Time 12:31 a.m. / ~~p.m.~~

Type of Material

☐ Fluids ☑ Solids

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 52-57

DESCRIPTION Tank Soil

Volume of Material ☐ Bbls. _____ ☑ Yard 12 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent C. D. McCasland (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

213321

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, II

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name North Vacuum ABO South East

Trucking Company Hungry Horse | Vehicle Number 02 | Driver (Print) Benny

Date 2-26-09 | Time 8:57 a.m. / p.m.

Type of Material

☐ Fluids ☐ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SO-51

DESCRIPTION Tank Soil

Volume of Material ☐ Bbls. _____ ☑ Yard 12 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

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☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

213269

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

APP-D-

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

RECEIVED
MAR 13 2009
HOBBSOCD

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: Guy Haykus/Production Superintendent
Address: 200 N. Loraine St., Ste. 800, Midland, TX 79701	Telephone No.: (432) 682-8873
Facility Name: North Vacuum Abo Lease - South Water Station	Facility Type: Produced Water Injection Station

Surface Owner: State of New Mexico	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
G	26	17S	34E					

Latitude: N 32° 48' 24.9" Longitude: W 103° 31' 43.5"

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Permanent Pit (Agreed Scheduling Order Closure)	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 02/27/2009/3:00 pm CST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Release from bottom of concrete-lined permanent pit discovered during closure in accordance with a plan approved by OCD Environmental Bureau personnel in Santa Fe on February 4, 2009. Removed concrete lining pit for disposal at OCD approved disposal facility (Controlled Recovery, Inc.). Propose to excavate contaminated soil for disposal at same disposal facility.

Describe Area Affected and Cleanup Action Taken.* Contamination discovered in discreet soil samples collected from two (2) areas showing staining near pit center and south of pit center. Contamination appears limited to immediate area of soil staining and will be excavated to delineate extent of release.

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: Mark Larson, Larson & Associates, Inc. (Consultant)	Approved by District Supervisor: ENVIRO
Title: Sr. Project Manager / President	Approval Date: 3.13.09 Expiration Date: —
E-mail Address: mark@laenvironmental.com	Conditions of Approval: Attached ☐
Date: 03/02/2009 Phone: (432) 687-0901	RP# 04.3.2015

* Attach Additional Sheets If Necessary

APP-E

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

RECEIVED
MAR 13 2009
HOBBSOCD

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: Guy Haykus/Production Superintendent
Address: 200 N. Loraine St., Ste. 800, Midland, TX 79701	Telephone No.: (432) 682-8873
Facility Name: North Vacuum Abo Lease - South Water Station	Facility Type: Produced Water Injection Station

Surface Owner: State of New Mexico	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
G	26	17S	34E					

Latitude: N 32° 48' 24.9" Longitude: W 103° 31' 43.5"

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Permanent Pit (Agreed Scheduling Order Closure)	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 02/27/2009/3:00 pm CST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Release from bottom of concrete-lined permanent pit discovered during closure in accordance with a plan approved by OCD Environmental Bureau personnel in Santa Fe on February 4, 2009. Removed concrete lining pit for disposal at OCD approved disposal facility (Controlled Recovery, Inc.). Propose to excavate contaminated soil for disposal at same disposal facility.

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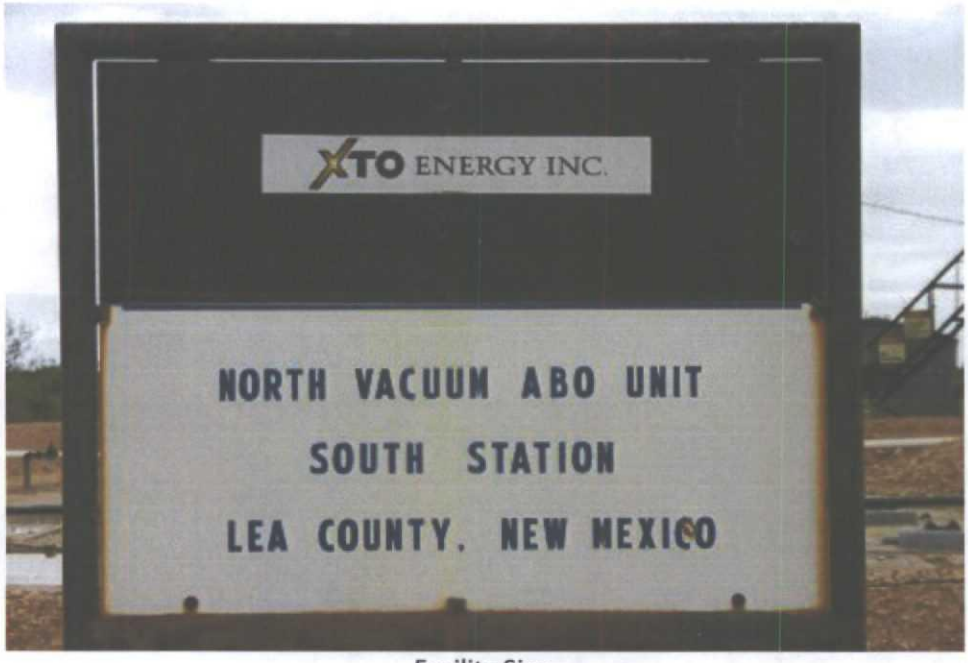
Signature:	OIL CONSERVATION DIVISION	
Printed Name: Mark Larson, Larson & Associates, Inc. (Consultant)	Approved by District Supervisor: ENVIRONMENTAL ENGINEER	
Title: Sr. Project Manager / President	Approval Date: 3-13-09	Expiration Date:
E-mail Address: mark@laenvironmental.com	Conditions of Approval:	Attached ☐
Date: 03/02/2009 Phone: (432) 687-0901		IRP 09-3-2115

* Attach Additional Sheets If Necessary



Facility Sign

Permanent Pit Prior to Closure Activities

Drained Pit Ready for Inspection and Closure

Concrete Removed and Vadose Zone Exposed for Inspection

View of Native Soil in the Sidewall

Backfilled Pit Awaiting Reseeding

V-11920 APD-F

Invoice

Controlled Recovery Inc.
4507 W Carlsbad Highway
PO Box 388
Hobbs NM 88240
United States
505-393-1079

Date	3/13/2009
Invoice #	64004
Terms	Net 30
Due Date	4/12/2009
PO #	
Generator	XTO
Memo	
Lease	NVAU
Well	SOUTHWEST
Rig	
Company Man	

REC'D MIDLAND
MAR 16 2009

Bill To
XTO ENERGY INC
200 N LORRAINE STREET
SUITE 800
MIDLAND TX 79701-4754
United States

Contaminated Soil	20	18.00	360.00	214937	3/9/2009	Rocker Three
Contaminated Soil	20	18.00	360.00	214936	3/9/2009	HUNGRY HORSE
Contaminated Soil	20	18.00	360.00	214933	3/9/2009	HUNGRY HORSE
Contaminated Soil	20	18.00	360.00	214915	3/9/2009	Rocker Three
Contaminated Soil	12	18.00	216.00	214884	3/9/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	214883	3/9/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	214973	3/9/2009	HUNGRY HORSE
Contaminated Soil	12	18.00	216.00	214972	3/9/2009	HUNGRY HORSE
Contaminated Soil	20	18.00	360.00	214885	3/9/2009	Rocker Three
Contaminated Soil	20	18.00	360.00	214974	3/9/2009	Rocker Three

=0

Subtotal	3,024.00
Tax (NM Sales Tax 5.375%)	162.54
Total	$3,186.54

TOPSY

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU SOUTH WEST

Trucking Company ROCKEX 3 | Vehicle Number 3 | Driver (Print) JAVIER

Date 3-9-09 | Time 1:15 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SOIL

DESCRIPTION

CONT
SOIL

Volume of Material ☐ Bbls. _____ ☒ Yard 20 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

214937

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU SOUTH WEST

Trucking Company Hungry Horse | Vehicle Number 01 | Driver (Print) Tony

Date 3-9-09 | Time 1:15 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 5967

DESCRIPTION

Cont. SOIL

Volume of Material ☐ Bbls. ☐ Yard 12 ☐ Gallons

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

214936

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU SOUTHWEST

Trucking Company HUNGRY HORSE | Vehicle Number 02 | Driver (Print) BENNY

Date 3-9-09 | Time 1:10 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SOIL

DESCRIPTION

CONT SOIL

Volume of Material ☐ Bbls. ☒ Yard 12 ☐ Gallons

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches				
1st Gauge			BS&W/BBLS Received		BS&W	%
2nd Gauge			Free Water			
Received			Total Received			

214933

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - 47521

CONTROLLED RECOVERY, C.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to ______________________

Address ______________________

Company/Generator XTO

Lease Name NUAV SOUTHWEST

Trucking Company ROCKER 3 | Vehicle Number 3 | Driver (Print) TAVILER

Date 3-9-09 | Time 11:20 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 50/57

DESCRIPTION

CONT

SOIL

Volume of Material ☐ Bbls. ______ ☒ Yard 20 ☐ Gallons ______

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # ______

Agent [signature]
(Signature)

CRI Representative [signature]
(Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

214919

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER · #7521

CONTROLLED RECOVERY INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU SOUTHWEST

Trucking Company HUNGER HORSE | Vehicle Number 01 | Driver (Print) TONY

Date 3-9-09 | Time 9:20 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area _____

DESCRIPTION

CONT
SOIL

Volume of Material ☐ Bbls. _____ ☒ Yard 12 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☒ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

214884

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - 7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NUAU SOUTH WEST

Trucking Company HUNGRY HORSE | Vehicle Number 01 | Driver (Print) TONY

Date 3-9-09 | Time 3:10 a.m. / p.m.

Type of Material

☐ Fluids ☑ Solls

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area SWD

DESCRIPTION

CONT.
50.2

Volume of Material ☐ Bbls. _____ ☑ Yard 12 ☐ Gallons _____

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

214973

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER · #7521

CONTROLLED RECOVERY INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU SOUTH WEST

Trucking Company HUNDLEY HAULING | Vehicle Number 02 | Driver (Print) DENNY

Date 3-9-09 | Time 3:05 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 57/67

DESCRIPTION

CONT SOIL

Volume of Material ☐ Bbls. ☒ Yard 12 ☐ Gallons

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous.. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

214972

Form C138

White - CRI | Canary - CRI Accounting | Pink - CRI Plant | Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 Hobbs, New Mexico 88241-0388 • (575) 393-10[illegible] • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU SOUTHWEST

Trucking Company ROCKET J | Vehicle Number 3 | Driver (Print) JAVIER

Date 3-9-09 | Time 9:30 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 5065

DESCRIPTION

COMP

SOIL

Volume of Material ☐ Bbls. ☒ Yard 20 ☐ Gallons

☐ Wash Out ☐ Call Out ☒ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24; or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

214885

Form C138

White - CRI Canary - CRI Accounting Pink - CRI Plant Gold - Transporter

THE COLOR PRINTER - #7521

CONTROLLED RECOVERY, INC.

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com

NMOCD Order R9166

Bill to _____

Address _____

Company/Generator XTO

Lease Name NVAU SOUTHWEST

Trucking Company ROCKEN 3 | Vehicle Number 3 | Driver (Print) JAVILA

Date 3-9-09 | Time 3:10 a.m. / p.m.

Type of Material

☐ Fluids ☒ Soils

☐ Tank Bottoms ☐ Other Material *(List Description Below)* Receiving Area 57/67

DESCRIPTION

CONT.
SOIL

Volume of Material ☐ Bbls. ☒ Yard 20 ☐ Gallons

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other *(Provide description above)*

☐ CRI Approval # _____

Agent _____ (Signature)

CRI Representative _____ (Signature)

TANK BOTTOMS

	Feet	Inches			
1st Gauge			BS&W/BBLS Received		BS&W %
2nd Gauge			Free Water		
Received			Total Received		

White - CRI Form C138 Canary - CRI Accounting Pink - CRI Plant 214974 Gold - Transporter

THE COLOR PRINTER - #7521

Jones, Brad A., EMNRD

From: Mark Larson [Mark@laenvironmental.com]
Sent: Monday, March 02, 2009 5:01 PM
To: Price, Wayne, EMNRD
Cc: Jones, Brad A., EMNRD; William_Haykus@xtoenergy.com; Hill, Larry, EMNRD
Subject: Re: XTO Energy, Inc., North Vacuum Abo Lease, South Water Station Form C-141 and Initial Soil Sample Results Transmittal, March 2, 2009
Attachments: 20090302175134.pdf

Dear Wayne, Please find attached submittal on behalf of XTO Energy, Inc. of initial soil samples (composite and discreet) from a permanent pit at the North Vacuum Abo Lease, South Water Station in Lea County, New Mexico. The C-141 and soil sample results are submitted per the closure plan approved on February 4, 2009. XTO proposes to excavate two (2) areas beginning on March 4, 2009, where the laboratory reported total petroleum hydrocarbons (TPH) by method 418.1 at 2,730 mg/Kg and 19,600 mg/Kg in discreet soil samples B-6 and B-7, respectively. No benzene, BTEX or chloride was reported in the samples at concentrations above the OCD thresholds of 0.2 mg/Kg, 50 mg/Kg and 250 mg/Kg, respectively. The original document is being sent via certified mail with return receipt requested Please contact me if you have questions.

Mark J. Larson
Sr. Project Manager / President
507 N. Marienfeld St., Ste. 202
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

Larson & Associates, Inc.
Environmental Consultants

RECEIVED
2009 MAR 5 PM 1 02

March 2, 2009

VIA: Certified Mail (Return Receipt Requested)
VIA EMAIL: Wayne.Price@state.nm.us

Mr. Wayne Price
Bureau Chief
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Soil Sample Results from Permanent Pit
XTO Energy, Inc., North Vacuum Abo Lease – South Water Station
Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East
Lea County, New Mexico

Dear Mr. Price,
Pursuant to 19.15.17.13C(3) NMAC, this letter transmits to the New Mexico Oil Conservation Division (OCD) form C-141 (Attachment A) and laboratory results (Attachment B) for composite and discreet soil samples collected from a permanent pit at the North Vacuum Abo Lease, South Water Station (Facility). The Facility is located in Unit G (SW/4, NE/4), Section 26, Township 17 South, Range 34 East in Lea County, New Mexico. The Facility is positioned at latitude 32° 48' 24.9" north and longitude is 103° 31' 43.5" west. Contact information for XTO is as follows:

XTO Energy Inc.
Permian Division-SE New Mexico
P.O. Box 700
Eunice, New Mexico 88231

Contact Person: Jerry Parker
Phone Number: (575) 394-0542

XTO Energy Inc.
Midland Office
200 N. Loraine Street, Suite 800
Midland, Texas 79701

Contact Person: Guy Haykus
Phone Number: (432) 682-8873

On February 18, 2009, XTO sent certified letters, with return receipt requested, to the OCD District 1 office, located in Hobbs, New Mexico and the New Mexico State Land Office, as surface owner of record, at its Santa Fe and Hobbs, New Mexico offices, to notify these entities of pending closure of the

pit according to a closure plan approved by the OCD Environmental Bureau in Santa Fe, New Mexico on February 4, 2009. The closure was scheduled to commence on February 23, 2009.

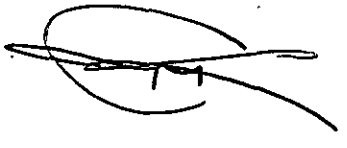
On February 23, 2009, XTO removed ancillary equipment (i.e. fencing, netting, etc.) for salvage or scrap metal. A track-mounted hammer hoe was used to remove the concrete lining from the pit. The concrete was disposed at Controlled Recovery, Inc., which operates under OCD permit R9166. On February 26, 2009, LAI personnel collected 5-spot composite soil samples from the bottom (BC-1) and sidewalls (SC-1, EC-1, WC-1 and NC-1) of the pit following removal of the concrete. Two (2) discreet samples (B-6 and B-7) were collected from the bottom of the pit at locations with apparent staining. The composite and discreet soil samples were placed in clean glass sample containers, labeled, chilled in an ice chest and hand-delivered under chain of custody control and preservation to Xenco Laboratories (formerly Environmental Lab of Texas, Inc.) located in Odessa, Texas. The laboratory analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1.

The laboratory reported no benzene, BTEX and chloride above OCD limits of 0.2 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for BTEX or 250 mg/Kg for chloride. The laboratory reported TPH in the composite samples between 43.8 mg/Kg in the south composite sample (SC-1) and 873 mg/Kg in the north composite sample (NC-1). The TPH in the discreet samples was 2,730 mg/Kg (B-6) and 19,600 mg/Kg (B-7). Groundwater occurs at approximately 120 feet below ground surface. Table 1 presents a summary of the laboratory analysis. Attachment A presents the laboratory report.

XTO proposes to excavate the TPH at locations B-6 (2,730 mg/Kg) and B-7 (19,600 mg/Kg) to delineate the TPH by field methods and collect samples for laboratory confirmation when field observations indicate that the extent of contamination has been obtained. The excavation activity is scheduled for March 4, 2009. Please contact myself at (432) 687-0901 or Guy Haykus with XTO at (432) 682-8873, if you have questions.

Sincerely,

Larson & Associates, Inc.



Mark J. Larson, P.G., C.P.G., C.G.W.P.
Sr. Project Manager/President

Cc: Guy Haykus/XTO Energy, Inc/Production Superintendent - Midland
DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr. – Midland
Kristy Ward/XTO Energy Inc/Regulatory Analyst - Midland
Larry Hill/OCD District 1

Tables

Table 1
Soil Analytical Data Summary
XTO Energy, Inc.
North Vacuum Abo Lease - South Water Station
Unit G (SW/4, NE/4) Sec 26, T17S, R34E
Lea County, New Mexico
LAI Project No.: 8-0165

Sample ID	Date	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX	TPH C6-C28	Chlorides
RRAL:		0.2				50	1,000	250
BC-1	2/26/2009	<0.0012	<0.0023	<0.0012	<0.0012	<0.0012	**454**	**241**
SC-1	2/26/2009	<0.0011	<0.0022	<0.0011	<0.0011	<0.0011	**43.8**	**41.6**
EC-1	2/26/2009	<0.0011	<0.0022	<0.0011	<0.0011	<0.0011	**283**	**92.6**
WC-1	2/26/2009	<0.0011	<0.0021	<0.0011	<0.0011	<0.0011	**460**	**8.75**
NC-1	2/26/2009	<0.0011	<0.0023	<0.0011	<0.0011	<0.0011	**873**	**72.9**
B-7	2/26/2009	<0.0013	<0.0025	**0.0017**	**0.0037**	**0.0054**	**19,600**	**23.4**
B-6	2/26/2009	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	**2,730**	**120**

Notes

RRAL - Recommended Remediation Action Level

BTEX analyzed via EPA SW Method 8021B.

Total Petroleum Hydrocarbons analyzed via EPA Method 418.1.

Chlorides analyzed via EPA Method 300.

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

Bold indicates the analyte was detected.

Bold and blue indicates the value exceeds NMOCD requirements.

Attachment A

Form C-141

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: Guy Haykus/Production Superintendent
Address: 200 N. Loraine St., Ste. 800, Midland, TX 79701	Telephone No.: (432) 682-8873
Facility Name: North Vacuum Abo Lease - South Water Station	Facility Type: Produced Water Injection Station

Surface Owner: State of New Mexico	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
G	26	17S	34E					

Latitude: N 32° 48' 24.9" Longitude: W 103° 31' 43.5"

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Permanent Pit (Agreed Scheduling Order Closure)	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 02/27/2009/3:00 pm CST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Release from bottom of concrete-lined permanent pit discovered during closure in accordance with a plan approved by OCD Environmental Bureau personnel in Santa Fe on February 4, 2009. Removed concrete lining pit for disposal at OCD approved disposal facility (Controlled Recovery, Inc.). Propose to excavate contaminated soil for disposal at same disposal facility.

Describe Area Affected and Cleanup Action Taken.* Contamination discovered in discreet soil samples collected from two (2) areas showing staining near pit center and south of pit center. Contamination appears limited to immediate area of soil staining and will be excavated to delineate extent of release.

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: Mark Larson, Larson & Associates, Inc. (Consultant)	Approved by District Supervisor:	
Title: Sr. Project Manager / President	Approval Date:	Expiration Date:
E-mail Address: mark@laenvironmental.com	Conditions of Approval:	Attached ☐
Date: 03/02/2009 Phone: (432) 687-0901		

* Attach Additional Sheets If Necessary

Attachment B

Laboratory Report

Analytical Report 326072

for

Larson & Associates

Project Manager: Michelle Green

Vacuum Water Station South

27-FEB-09

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

27-FEB-09

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

Reference: XENCO Report No: **326072**
Vacuum Water Station South
Project Address: 8-0165

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 326072. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 326072 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 326072

Larson & Associates, Midland, TX

Vacuum Water Station South

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BC-1	S	Feb-26-09 13:55		326072-001
SC-1	S	Feb-26-09 11:00		326072-002
EC-1	S	Feb-26-09 11:30		326072-003
WC-1	S	Feb-26-09 11:00		326072-004
NC-1	S	Feb-26-09 13:45		326072-005
B-7	S	Feb-26-09 14:00		326072-006
B-6	S	Feb-26-09 14:15		326072-007

Certificate of Analysis Summary 326072

Larson & Associates, Midland, TX

Project Name: Vacuum Water Station South

Project Id:

Contact: Michelle Green

Project Location: 8-0165

Date Received in Lab: Thu Feb-26-09 05:37 pm

Report Date: 27-FEB-09

Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	326072-001		326072-002		326072-003		326072-004		326072-005		326072-006	
	Field Id:	BC-1		SC-1		EC-1		WC-1		NC-1		B-7	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-26-09 13:55		Feb-26-09 11:00		Feb-26-09 11:30		Feb-26-09 11:00		Feb-26-09 13:45		Feb-26-09 14:00	
Anions by EPA 300	*Extracted:*												
	Analyzed:	Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27		Feb-27-09 09:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		241	11.7	41.6	5.43	92.6	5.40	8.75	5.36	72.9	5.70	23.4	6.28
BTEX by EPA 8021B	*Extracted:*	Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00		Feb-27-09 08:00	
	Analyzed:	Feb-27-09 10:18		Feb-27-09 10:39		Feb-27-09 10:59		Feb-27-09 11:20		Feb-27-09 11:40		Feb-27-09 12:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0013
Toluene		ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0021	ND	0.0023	ND	0.0025
Ethylbenzene		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	0.0017	0.0013
m,p-Xylenes		ND	0.0023	ND	0.0022	ND	0.0022	ND	0.0021	ND	0.0023	0.0037	0.0025
o-Xylene		*ND*	*0.0012*	*ND*	*0.0011*	*ND*	*0.0011*	*ND*	*0.0011*	*ND*	*0.0011*	*ND*	*0.0013*
Total Xylenes		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	0.0037	0.0013
Total BTEX		ND	0.0012	ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011	0.0054	0.0013
Percent Moisture	*Extracted:*												
	Analyzed:	Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02		Feb-27-09 12:02	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		14.37	1.00	7.89	1.00	7.40	1.00	6.76	1.00	12.24	1.00	20.39	1.00
TPH by EPA 418.1	*Extracted:*												
	Analyzed:	Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47		Feb-27-09 08:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH, Total Petroleum Hydrocarbons		454	11.7	43.8	10.9	283	10.8	460	10.7	873	11.4	19600	62.8

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 326072

Larson & Associates, Midland, TX

Project Name: Vacuum Water Station South

Project Id:

Contact: Michelle Green

Project Location: 8-0165

Date Received in Lab: Thu Feb-26-09 05:37 pm

Report Date: 27-FEB-09

Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	326072-007					
	Field Id:	B-6					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Feb-26-09 14:15					
Anions by EPA 300	***Extracted:***						
	Analyzed:	Feb-27-09 09:27					
	Units/RL:	mg/kg	RL				
Chloride		120	5.20				
BTEX by EPA 8021B	***Extracted:***	Feb-27-09 08:00					
	Analyzed:	Feb-27-09 12:21					
	Units/RL:	mg/kg	RL				
Benzene		ND	0.0010				
Toluene		ND	0.0021				
Ethylbenzene		ND	0.0010				
m,p-Xylenes		ND	0.0021				
o-Xylene		ND	0.0010				
Total Xylenes		ND	0.0010				
Total BTEX		ND	0.0010				
Percent Moisture	***Extracted:***						
	Analyzed:	Feb-27-09 12:02					
	Units/RL:	%	RL				
Percent Moisture		3.80	1.00				
TPH by EPA 418.1	***Extracted:***						
	Analyzed:	Feb-27-09 08:47					
	Units/RL:	mg/kg	RL				
TPH, Total Petroleum Hydrocarbons		2730	10.4				

Brent Barron
Odessa Laboratory Director

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders : 326072, **Project ID:**

Lab Batch #: 751059 **Sample:** 525549-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02/27/09 08:56

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 751059 **Sample:** 525549-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02/27/09 09:17

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 751059 **Sample:** 525549-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 02/27/09 09:58

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 751059 **Sample:** 326072-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 10:18

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 751059 **Sample:** 326072-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 10:39

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders : 326072, **Project ID:**

Lab Batch #: 751059 **Sample:** 326072-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 10:59

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 751059 **Sample:** 326072-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 11:20

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 751059 **Sample:** 326072-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 11:40

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 751059 **Sample:** 326072-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 12:01

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0236	0.0300	79	80-120	**

Lab Batch #: 751059 **Sample:** 326072-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 12:21

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders : 326072,

Project ID:

Lab Batch #: 751059 **Sample:** 326072-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 12:42

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 751059 **Sample:** 326072-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 02/27/09 13:02

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	80-120	

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Vacuum Water Station South

Work Order #: 326072 **Project ID:**

Lab Batch #: 751054 **Sample:** 751054-1-BKS **Matrix:** Solid

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** LATCOR

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

Anions by EPA 300 Analytes	BLANK /BLANK SPIKE RECOVERY STUDY					
	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.4	104	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Vacuum Water Station South

Work Order #: 326072 **Project ID:**

Analyst: ASA **Date Prepared:** 02/27/2009 **Date Analyzed:** 02/27/2009

Lab Batch ID: 751059 **Sample:** 525549-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	ND	0.1000	0.1025	103	0.1	0.1038	104	1	70-130	35	
Toluene	ND	0.1000	0.1030	103	0.1	0.1045	105	1	70-130	35	
Ethylbenzene	ND	0.1000	0.1010	101	0.1	0.1027	103	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.2112	106	0.2	0.2145	107	2	70-135	35	
o-Xylene	ND	0.1000	0.1030	103	0.1	0.1050	105	2	71-133	35	

Analyst: ASA **Date Prepared:** 02/27/2009 **Date Analyzed:** 02/27/2009

Lab Batch ID: 751012 **Sample:** 751012-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by EPA 418.1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
TPH, Total Petroleum Hydrocarbons	ND	2500	2080	83	2500	2080	83	0	65-135	35	

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

Form 3 - MS Recoveries

Project Name: Vacuum Water Station South

Work Order #: 326072
Lab Batch #: 751054
Date Analyzed: 02/27/2009
QC- Sample ID: 325914-001 S
Reporting Units: mg/kg

Date Prepared: 02/27/2009
Batch #: 1

Project ID:
Analyst: LATCOR
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	92.6	114	210	103	80-120	

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

Form 3 - MS / MSD Recoveries

Project Name: Vacuum Water Station South

Work Order # : 326072 **Project ID:**

Lab Batch ID: 751059 **QC- Sample ID:** 326072-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1086	0.0847	78	0.1086	0.0888	82	5	70-130	35	
Toluene	ND	0.1086	0.0791	73	0.1086	0.0830	76	5	70-130	35	
Ethylbenzene	ND	0.1086	0.0692	64	0.1086	0.0725	67	5	71-129	35	X
m,p-Xylenes	ND	0.2171	0.1443	66	0.2171	0.1518	70	5	70-135	35	X
o-Xylene	ND	0.1086	0.0691	64	0.1086	0.0730	67	5	71-133	35	X

Lab Batch ID: 751012 **QC- Sample ID:** 326072-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** ASA

Reporting Units: mg/kg

TPH by EPA 418.1 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	454	2920	2770	79	2920	2960	86	7	65-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

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

Sample Duplicate Recovery

Project Name: Vacuum Water Station South

Work Order #: 326072

Lab Batch #: 751054 **Project ID:**

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** LATCOR

QC- Sample ID: 325914-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	92.6	95.9	4	20	

Lab Batch #: 751040

Date Analyzed: 02/27/2009 **Date Prepared:** 02/27/2009 **Analyst:** BEV

QC- Sample ID: 326072-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	14.4	16.0	11	20	

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

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 36514

CHAIN-OF-CUSTODY

CLIENT: LARSON & ASSOCIATES
ADDRESS:
PHONE: FAX:
DATA REPORTED TO: MICHELLE GREEN
ADDITIONAL REPORT COPIES TO:

DATE: 2/26/09 PAGE 1 OF 1
PO #: DHL WORK ORDER #:
PROJECT LOCATION OR NAME: 8-0165
CLIENT PROJECT #: COLLECTOR: R. BROOKS

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

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

326072

Field Sample I.D.	DHL Lab #	Date (2009)	Time (MST)	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX X MTBE ☐ (8021B)	TPH 418.1 X TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PERCHLORATE ☐	CHLORIDE X ANIONS ☐ ALKALINITY ☐ (EPA 300.1)			FIELD NOTES
BC-1	1	2-26	1:55	S	8 oz	1				X		X	X															X			Composite
SC-1	2	↓	11:[illegible]	↓	↓	↓				↓		↓	↓															↓			↓
EC-1	3	↓	11:30	↓	↓	↓				↓		↓	↓															↓			↓
WC-1	4	↓	11:00	↓	↓	↓				↓		↓	↓															↓			↓
NC-1	5	↓	1:45	↓	↓	↓				↓		↓	↓															↓			↓
B-7	6	↓	2:00	↓	↓	↓				↓		↓	↓															↓			GRAB
B-6	7	↓	2:15	↓	↓	↓				↓		↓	↓															↓			GRAB
TOTAL						7				7		7	7															7			

RELINQUISHED BY: (Signature) R.W. Brooks DATE/TIME 2/26/09 RECEIVED BY: (Signature) [signature] 02-26-09 1737
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH X CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 5.5°C THERM #:
CUSTODY SEALS - ☐ BROKEN ☐ INTACT X NOT USED
☐ CARRIER BILL #
☐ APC DELIVERY
☐ HAND DELIVERED

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Larson + Associates

Date/ Time: 02-26-09 @ 1737

Lab ID # : 326072

Initials: JMF

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	5.5 °C	
#2 Shipping container in good condition?	(Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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