C-144

Permanent Pit

Closure Report



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.

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: Cell: 575.394.2089 575.441.1628

Secondary Contact:

Guy Haykus XTO Energy Inc.

Midland Office

200 N. Loraine Street, Suite 800

Midland, Texas 79701

Office:

Address:

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

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 Offic | æ. |
|---|--|---|
| | Pit, Closed-Loop System, Below-Grade Tank, or | |
| | Proposed Alternative Method Permit or Closure Plan Appli | cation |
| | Closure of a pit, closed-loop system, below-grade tank, or proposed alternative Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, clo | e method |
| | proposed alternative method | |
| | lease submit one application (Form C-144) per individual pit, closed-loop system, below-grad | <u>-</u> |
| environment. Nor does appro- | wal of this request does not relieve the operator of liability should operations result in pollution of su roval relieve the operator of its responsibility to comply with any other applicable governmental autl | rrace water, ground water or the nority's rules, regulations or ordinances. |
| I. Operator: XTO ENER | ERGY, INC. OGRID #:5380 | |
| Address: <u>PERMIAN DIV</u> | IVISION – SE NEW MEXICO, P.O. BOX 700, EUNICE, NM 88231 | |
| Facility or well name: NO | ORTH VACUUM ABO UNIT SOUTH WATER STATION / ABO WELL NO, 305 (NEARI | EST WELL) |
| API Number: <u>30-025-379</u> | 7971 OCD Permit Number: | |
| | Section 26 Township 17S Range 34E County: L | |
| Center of Proposed Design | gn: Latitude <u>32° 48' 24.9"</u> Longitude <u>103° 31' 43.5"</u> | NAD: □1927 🛛 1983 |
| Surface Owner: Federa | ral 🛮 State 🔲 Private 📋 Tribal Trust or Indian Allotment | |
| Temporary: ☐ Drilling ☐ ☐ Permanent ☐ Emerger ☐ Lined ☐ Unlined L ☐ String-Reinforced Liner Seams: ☐ Welded | or G of 19.15.17.11 NMAC Workover gency Cavitation P&A Liner type: Thickness 6 inches LLDPE HDPE PVC Other CON d Factory Other Volume: 3,470 bbl Dimension | |
| Type of Operation: P& intent) Drying Pad Above Lined Unlined Lin | Subsection H of 19.15.17.11 NMAC P&A Drilling a new well Workover or Drilling (Applies to activities which require prior ove Ground Steel Tanks Haul-off Bins Other | |
| Volume: Tank Construction materia Secondary containmen Visible sidewalls and | Subsection I of 19.15.17.11 NMACbbl Type of fluid: ial: ent with leak detection | |

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

| 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 Northly investigated (15 antique of several lands) | | |
| 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 | | |
| | | |
| 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 acceptance. | rtabla soussa | |
| material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate the control of the control of the control of the certain siting criteria may require administrative approval from the appropriate control of the certain siting criteria may require administrative approval from the appropriate control of the certain siting criteria may require administrative approval from the approximation of the certain siting criteria may require administrative approval from the approximation of the certain siting criteria may require administrative approximation of the certain siting criteria may require administrative approximation of the certain siting criteria may require administrative approximation of the certain siting criteria may require administrative approximation of the certain siting criteria may require administrative approximation of the certain siting criteria may require administrative approximation of the certain siting criteria may require administrative approximation of the certain siting criteria may require administrative approximation of the certain situation of the certain s | priate district | |
| office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi | | |
| 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). | ☐ Yes ☐ No | |
| - Topographic map; Visual inspection (certification) of the proposed site | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No | |
| (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | □ NA | |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No | |
| (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | □ NA | |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock | ☐ Yes ☐ No | |
| 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 | | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | ☐ Yes ☐ No | |
| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | | |
| Within 500 feet of a wetland. | □ Vac □ No | |
| - 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. | ☐ Yes ☐ No | |
| Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | | |
| Within a 100-year floodplain FEMA map | ☐ Yes ☐ No | |

| 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) |
| 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 ₂ S, 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 |
| |
| 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | AC | | | |
| 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 sor provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disconsidered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. | trict office or may be | | | |
| 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 | | | |
| 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 | | | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure possible to the closure possible Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure possible to the clo |).15.17.11 NMAC | | | |

| Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and of | 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 | y) OCD Conditions (see attachment) |
| OCD Representative Signature: | Approval Date: |
| Title:OCD | Permit Number: |
| Closure Report (required within 60 days of closure completion): Subsection K of 19 Instructions: Operators are required to obtain an approved closure plan prior to imple The closure report is required to be submitted to the division within 60 days of the comp section of the form until an approved closure plan has been obtained and the closure as | menting any closure activities and submitting the closure report. Detion of the closure activities. Please do not complete this |
| | Closure Completion Date: <u>March 20, 2009</u> |
| Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Clo ☐ If different from approved plan, please explain. | osure Method Waste Removal (Closed-loop systems only) |
| 23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That U Instructions: Please indentify the facility or facilities for where the liquids, drilling flut two facilities were utilized. | |
| | sal Facility Permit Number: |
| | sal Facility Permit Number: |
| Were the closed-loop system operations and associated activities performed on or in areas Yes (If yes, please demonstrate compliance to the items below) No | s that will not be used for future service and operations? |
| 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 | |
| Closure Report Attachment Checklist: Instructions: Each of the following items musual 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 Pool 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 | st be attached to the closure report. Please indicate, by a check remit Number R9166. 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 belief. I also certify that the closure complies with all applicable closure requirements an | |
| | Title: Superintendent |
| Signature: Will House | Date: 10/24/09 |
| e-mail address: William Haykus@xtoenergy.com | Telephone: (432) 682-8873 |

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 | Status | Depth (Ft) | Benzene | Toluene | Ethyl benzene | Total Xylenes | Total BTEX | TPH C6-C28 | Chlorides |
|-----------|-----------|-----------|------------|----------|---------|------------------|------------------|------------|---------------|-----------|
| RRAL: | | | | 0.2 | | Control of | | 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.



Figure 2 - Aerial

Environmental Consultants

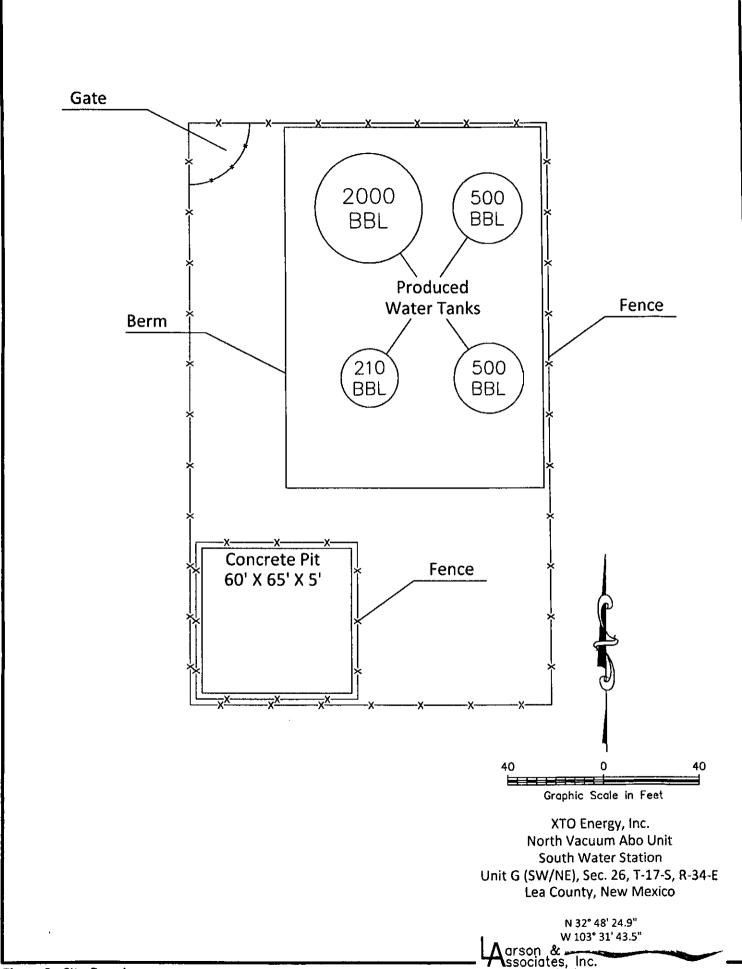
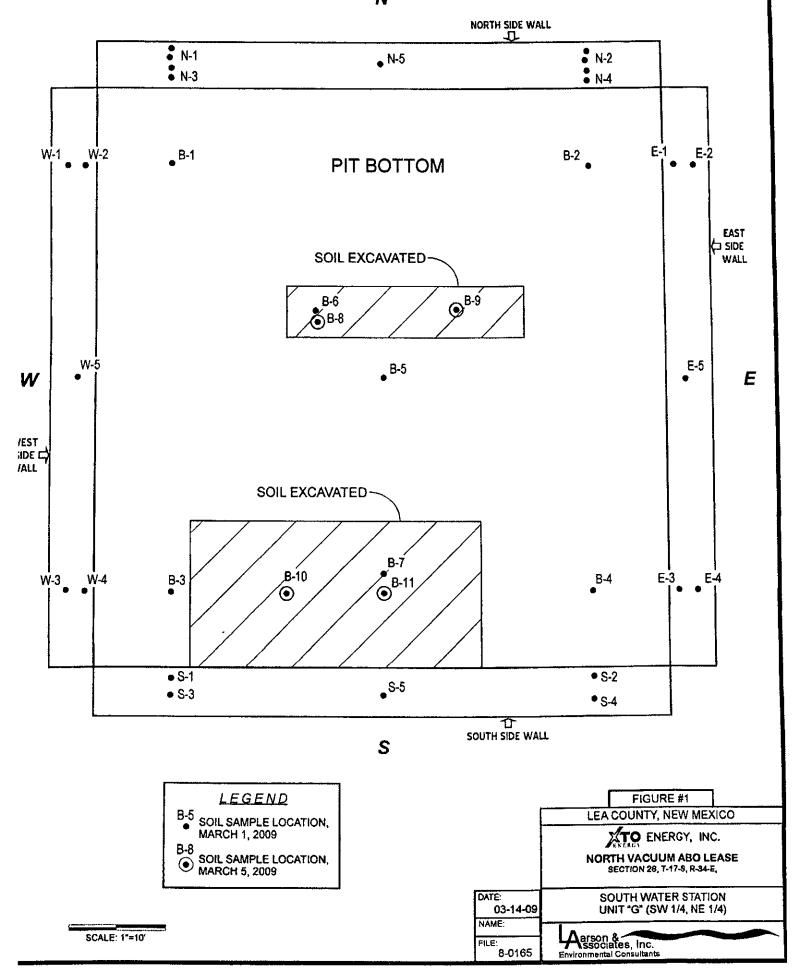


Figure 3 - SIte Drawing



histrict I
1625 N. French Dr., Hobbs, NM 88240
District II
301 W. Grand Avenue, Artesia, NM 88210
histrict 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

APD-A-

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 |
| ease 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 vironment. 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 178 Range 34E County: LEA |
| Center of Proposed Design: Latitude <u>32°48' 24.9"</u> Longitude <u>103° 31' 43.5"</u> NAD: ☐1927 ☑ 1983 |
| Surface Owner: Federal State Private Tribal Trust or Indian Allotment |
| |
| X Pit: Subsection F or G of 19.15.17.11 NMAC |
| Temporary: Drilling Workover |
| Permanent Emergency Cavitation P&A |
| X 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' |
| i 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 |
| |
| 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: Thicknessmil |

| ſ | 5. | |
|---|--|--------------|
| 1 | Alternative Method: | Ī |
| | 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) | |
| 1 | Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, h institution or church) | ospital, |
| • | Four foot height, four strands of barbed wire evenly spaced between one and four feet | |
| | ☐ Alternate. Please specify | |
| • | | |
| - | 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) | |
| 1 | | |
| | 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 of | 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 accep | |
| • | material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of fice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a | |
| | Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi 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. | ☐ Yes ☐ No |
| | - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | |
| | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa | ☐ Yes ☐ No |
| * | lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | • |
| | Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No |
| 1 | (Applies to temporary, emergency, or cavitation pits and below-grade tanks) | □ NA |
| ! | - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| | Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) | ☐ NA |
| , | - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | <u> </u> |
| | Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock | Yes No |
| 1 | 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 | |
| | Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | ☐ Yes ☐ No |
| | adopted pursuant to NMSA 1978, Section 3-27-3, as amended. | |
| 1 | Written confirmation or verification from the municipality; Written approval obtained from the municipality | |
| | Within 500 feet of a wetland. I.S. Fish and Wildlife Westernd Identification many Tonographic many Visual inspection (certification) of the proposed site. | ☐ Yes ☐ No |
| , | - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | |
| | 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. | Yes No |
| 1 | - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological | |
| | Society, Topographic map | |
| , | Within a 100-year floodplain. Form C-144 Oil Conservation Division Page 2 of 6 | <u> </u> |
| | the state of the s | |

| | FEMA map | ☐ Yes ☐ No |
|--|---|--|
| attacl | porary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17 actions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the hed. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NM. Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 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 o 9.15.17.13 NMAC | e documents are AC 17.9 NMAC |
| P | reviously Approved Design (attach copy of design) API Number: or Permit Number: | |
| Instruction of the control of the co | Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC | 19.15.17.9 NMAC |
| | Previously Approved Design (attach copy of design) API Number: | ere grand of the second of the |
| P | Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loc | p system that use |
| above | e ground steel tanks or haul-off bins and propose to implement waste removal for closure) | |
| | 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 | e documents are |
| | osed Closure: 19.15.17.13 NMAC | |
| | uctions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. : Drilling Workover Emergency Cavitation P&A X Permanent Pit Below-grade Tank Closed-log | an Svetem |
| • • | Alternative osed 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 Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for the santa for the Santa Fe Environmental Bureau for the Santa Fe Environmental | |

| | 15. | | | | | | | | | |
|----------|---|-----------------------|--|--|--|--|--|--|--|--|
| 1 | Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a | ttached to the | | | | | | | | |
| i | 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) | | | | | | | | | |
| | | ĺ | | | | | | | | |
| | 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 | | | | | | | | | |
| L | 16. | | | | | | | | | |
| | Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D | | | | | | | | | |
| ! | Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if n facilities are required. | iore than two | | | | | | | | |
| 1 | Disposal Facility Name: Disposal Facility Permit Number: | | | | | | | | | |
| | Disposal Facility Name: Disposal Facility Permit Number: | | | | | | | | | |
| ۱ | Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future serv | ice and operations? | | | | | | | | |
| 1 | Yes (If yes, please provide the information below) No | ice and operations; | | | | | | | | |
| 1 | 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 | | | | | | | | | |
| 1 | 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 sour | ce material are | | | | | | | | |
| | provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distr | ict office or may be | | | | | | | | |
| ľ | considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif demonstrations of equivalency are required. Please refer to 19,15,17.10 NMAC for guidance. | ncanons ana/or | | | | | | | | |
| - | | | | | | | | | | |
| ı | 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 | | | | | | | | |
| į | i | | | | | | | | | |
| | - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | Yes X No | | | | | | | | |
| | 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 | X Yes ☐ No ☐ NA | | | | | | | | |
| i | 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). | ☐ Yes X No | | | | | | | | |
| | - Topographic map; Visual inspection (certification) of the proposed site | | | | | | | | | |
| | 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 | | | | | | | | |
| 1 | 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 | | | | | | | | |
| 1 | Within 500 feet of a wetland. | | | | | | | | | |
| | - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. | ☐ Yes 🛛 No | | | | | | | | |
| | - 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 | | | | | | | | |
| ا ا ر | 18. | <u> </u> | | | | | | | | |
| 1 | On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plans. | lan. 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 | | | | | | | | | |
| ļ | 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 Protocols and Procedures - based upon the appropriate requirements of 19.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Waste Material Sampling Plan - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection | 15.17.13 NMAC quirements of Subsection of Subsection F of 19.15. drill cuttings or in case of H of 19.15.17.13 NMA on I of 19.15.17.13 NMA | on F of 19.15.17.13 NMAC .17.13 NMAC on-site closure standards cannot be achieved) AC AC |
|--|---|--|
| 19. Operator Application Certification: | | |
| I hereby certify that the information submitted with this application is true, accur Name (Print): Guy Haykus | • | Superintendent |
| Signature: W. M. Law | Date: | <u>December 23, 2008</u> |
| e-mail address: William Haykus@xtoenergy.com | Telephone: | (432) 682-8873 |
| OCD Approval: Permit Application (including closure plan) Closure I | Plan (only) 🔲 OCD (| , , |
| OCD Representative Signature: | | Approval Date: 2/4/08 |
| Title: Enimental Engineer | OCD Permit Numb | er: |
| Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of the submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the submitted to the division within 60 days of the division within 60 days of the submitted to the division within 60 days of the division within 60 day | to implementing any cl the completion of the c | losure activities and submitting the closure report. losure activities. Please do not complete this een completed. |
| Closure Method: Waste Excavation and Removal On-Site Closure Method Altern If different from approved plan, please explain. | native Closure Method | ☐ Waste Removal (Closed-loop systems only) |
| 23. Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dr. two facilities were utilized. | | |
| Disposal Facility Name: | - | rmit Number: |
| Disposal Facility Name: | Disposal Facility Pc | |
| Were the closed-loop system operations and associated activities performed on c Yes (If yes, please demonstrate compliance to the items below) No | or in areas that <i>will not</i> b | e used for future service and operations? |
| Required for impacted areas which will not be used for future service and opera Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | itions: | |
| Closure Report Attachment Checklist: Instructions: Each of the following is 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 | | to the closure report. Please indicate, by a check NAD: 1927 1983 |

| | s submitted with this closure report is true, accurate and complete to tall applicable closure requirements and conditions specified in the app | |
|-----------------|---|--|
| Name (Print): | Title: | |
| Signature: | Date: | |
| e-mail address: | Telephone: | |

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



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

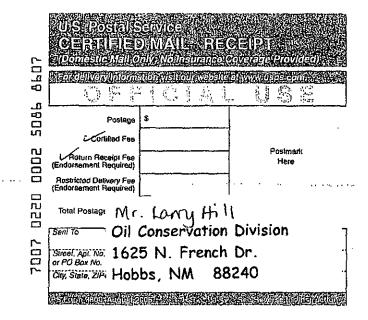
Cc: Myra Meyers/SLO Hobbs District

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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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







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

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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-I | 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 |

roject rame: racadmr Samon 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

| Lab Id: | | 326072- | 001 | 326072-0 | 002 | 326072- | 003 | 326072-0 | 004 | 326072- | -005 | 326072- | 006 |
|-----------------------------------|------------|-----------|--------|-----------|--------|-----------|--------|-----------------|--------|-----------|--------|-----------|--------|
| Analysis Requested | Field Id: | BC-1 | | SC-1 | | EC-1 | | WC-1 | | NC- | 1 | B-7 | |
| muysis Requesteu | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOII | _ | 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 | | | 0.0023 | | 0.0022 | | 0.0022 | | 0.0021 | ND | | 0.0037 | 0.0025 |
| o-Xylene | | ND | 0.0012 | | 0.0011 | | 0.0011 | | 0.0011 | | 0.0011 | ND | 0.0013 |
| Total Xylenes | <u></u> . | | 0.0012 | | 0.0011 | | 0.0011 | | 0.0011 | | 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: | <u>%</u> | 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: | | | | | | 1 | | | | | | |
| | 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 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron
Odessa Laboratory Director

Project Id:

rojectname: racadm

r:S......50.....

Contact: Michelle Green

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

Report Date: 27-FEB-09

Project Location: 8-0165

Since 1990

Project Manager: Brent Barron. II

| ······ | | | | | | |
|-----------------------------------|------------|-----------------|------|---|---|----------|
| | Lab Id: | 326072-007 | | | | |
| Analysis Paguastal | Field Id: | B-6 | | | | |
| Analysis Requested | 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 | | | | <u> </u> |
| 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 | | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.

The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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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 MOL and above the SOL.
- 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.

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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 | SURROGATE RECOVERY STUDY | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | 1 1 | 1-1 | [D] | | | | |
| 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 | SU | RROGATE R | ECOVERY S | STUDY | |
|----------------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| ВТЕ | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |
| 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:

Matrix: Solid

| Units: mg/kg Date Analyzed: 02/27/09 09:58 | SURROGATE RECOVERY STUDY | | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| Analytes | '' | | D | | | | | |
| 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 | SURROGATE RECOVERY STUDY | | | | | | |
|----------------------|-------------------------------|--------------------------|-----------------------|-----------------------|--------|-------|--|--|
| BTEX by EPA 8021B | | Amount Found [A] | True Amount [B] | Recovery Limits %R %R | | Flags | | |
| | Analytes | | | [D] | | | | |
| 1,4-Difluorobenzene | | 0.0306 | 0.0300 | 102 | 80-120 | | | |
| 4-Bromofluorobenzene | 4-Bromofluorobenzene | | 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 | SURROGATE RECOVERY STUDY | | | | | | |
|----------------------|-------------------------------|--------------------------|----------------------|----------------|-------------------------|-------|--|--|
| BTEX | X by EPA 8021B | Amount Found [A] | True Amount B | Recovery %R | Control Limits %R | Flags | | |
| | Analytes | | | [D] | | | | |
| 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

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



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 SURROGATE RECOVERY STUDY | | | | | | | |
|---|------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | | | [D] | | | | |
| 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

SURROGATE RECOVERY STUDY

| , | | | | | | | | |
|----------------------|------------------------|----------------------|----------------|-------------------------|-------|--|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount B | Recovery %R | Control Limits %R | Flags | | | |
| Analytes | P-1 | | [D] | / | | | | |
| 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:

Matrix: Soil

0.0300

0.0300

Units: mg/kg

Date Analyzed: 02/27/09 11:40

SURROGATE RECOVERY STUDY True Amount BTEX by EPA 8021B **Found** Amount Recovery Limits Flags [A] [B] %R %R $|\mathbf{D}|$ **Analytes**

1,4-Difluorobenzene 4-Bromofluorobenzene

Lab Batch #: 751059

Sample: 326072-006 / SMP

1 Batch:

Matrix: Soil

103

80-120

80-120

Units: mg/kg

Date Analyzed: 02/27/09 12:01

SURROGATE RECOVERY STUDY Amount Control BTEX by EPA 8021B Flags Found Amount Recovery Limits $|\mathbf{B}|$ %R %R $|\mathbf{A}|$ |D|**Analytes** 1,4-Difluorobenzene 0.0326 0.0300 109 80-120 4-Bromofluorobenzene 0.0236 0.0300 80-120

0.0310

0.0293

Lab Batch #: 751059

Sample: 326072-007 / SMP

Batch:

Matrix: Soil

| Units: mg/kg | Date Analyzed: 02/27/09 12:21 | SURROGATE RECOVERY STUDY | | | | | | |
|----------------------|-------------------------------|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| ВТЕХ | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| | Analytes | | | [D] | | | | |
| 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

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders: 326072,

Project ID:

Lab Batch #: 751059

Sample: 326072-002 S / MS

Batch:

Matrix: Soil

| Units: mg/kg | Date Analyzed: 02/27/09 12:42 | SURROGATE RECOVERY STUDY | | | | | | |
|----------------------|-------------------------------|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| ВТЕ | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| | Analytes | , , | , , | D | i | | | |
| 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 | SURROGATE RECOVERY STUDY | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | | | [D] | | | | |
| 1,4-Difluorobenzene | 0.0281 | 0.0300 | 94 | 80-120 | | | |
| 4-Bromofluorobenzene | 0.0266 | 0.0300 | 89 | 80-120 | | | |

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



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

Ratch #: 1 RLANK /RLANK SPIKE RECOVERY STUDY

| Keporting Onits: mg/kg | atch #: 1 | BLANK/BLANK SPIKE RECOVERY ST | | | STUDY | |
|------------------------|-----------------|-------------------------------|--------------------------|----------------------|-------------------------|-------|
| Anions by EPA 300 | Blank Result | Spike Added | Blank Spike Result | Blank Spike %R | Control Limits %R | Flags |
| Analytes | A | [B] | [C] | D | 76K | |
| Chloride | ND | 10.0 | 10.4 | 104 | 90-110 | |



BS/BSD Recoveries



Project Name: Vacuum Water Station South

103

Work Order #: 326072

Analyst: ASA

Date Prepared: 02/27/2009

Project ID:

Date Analyzed: 02/27/2009

Lab Batch 1D: 751059

Sample: 525549-1-BKS

Batch #: 1

Matrix: Solid

| Units: | mg/kg |
|--------|-------|
| Onns. | |

BTEX by EPA 8021B

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Blank Spike Blank Blank Spike Blank Blk. Spk Control Control RPD Sample Result Spike Dup. Limits Limits Flag Added Spike Spike Added Duplicate %R % %R %RPD $|\mathbf{A}|$ Result %R $|\mathbf{B}|$ [C] [D]Result [F] [G] [E] 0.1 0.1038 104 70-130 35 ND 0.1000 0.1025 103 ND 0.1045 105 70-130 35 0.1000 0.1030 103 0.1 ND 0.1000 0.1010 101 0.1 0.1027 103 2 71-129 35 0.2145 107 2 70-135 35 ND 0.2000 0.2112 106 0.2

0.1

0.1050

Analyst: ASA

Date Prepared: 02/27/2009

Date Analyzed: 02/27/2009

105

Lab Batch ID: 751012

Analytes Benzene

Toluene

Ethylbenzene

m,p-Xylenes

o-Xylene

Sample: 751012-1-BKS

ND

Batch #: 1

0.1000

Matrix: Solid

71-133

35

| Units: mg/kg | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|-----------------------------------|---|-----------------------|---------------------------------|-----------------------------|-----------------------|---|------------------------------|----------|-------------------------|---------------------------|------|
| TPH by EPA 418.1 | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Bik. 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 | |

0.1030



Form 3 - MS Recoveries

Project Name: Vacuum Water Station South



Vork Order #: 326072

Lab Batch #: 751054 Date Analyzed: 02/27/2009 Project ID:

Date Prepared:

02/27/2009

Analyst: LATCOR

QC-Sample ID: 325914-001 S

Batch #:

Matrix: Soil

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



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 #:

Matrix: Soil

Date Analyzed: 02/27/2009

Date Prepared: 02/27/2009

Analyst: ASA

| Reporting Units: mg/kg | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|------------------------|--|--------------|-------------------------------|-----------|--------------|----------------------------|----------------|-----|-------------------|-------------------|------|
| BTEX by EPA 8021B | Parent Sample | Spike | Spiked Sample Result C | Sample | • | Duplicate Spiked Sample | Spiked Dup. | RPD | Control Limits | Control Limits | Flag |
| Analytes | Kesult A | Result Added | | %R [D] | Added [E] | Result [F] | %R G | % | %R | %RPD | |
| 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 | х |
| m,p-Xylenes | ND | 0.2171 | 0.1443 | 66 | 0.2171 | 0.1518 | 70 | 5 | 70-135 | 35 | Х |
| o-Xylene | ND | 0.1086 | 0.0691 | 64 | 0.1086 | 0.0730 | 67 | 5 | 71-133 | 35 | Х |

Lab Batch ID: 751012

Date Analyzed: 02/27/2009

QC- Sample ID: 326072-001 S

Batch #:

Matrix: Soil

Date Prepared: 02/27/2009

Analyst: ASA

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



Chloride

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 #:

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY Reporting Units: mg/kg Anions by EPA 300 Sample Control Parent Sample Duplicate RPD Limits Result Flag %RPD Result [A] [B] Analyte

Lab Batch #: 751040

Date Analyzed: 02/27/2009

Date Prepared:

02/27/2009

95.9

Analyst: BEV

20

QC-Sample ID: 326072-001 D

Batch #:

92.6

Matrix: Soil

Reporting Units: %

| SAMPLE | SAMPLE | DUPLIC | ATE REC | OVERY |
|--------------------------------|-------------------------------|--------|---------------------------|-------|
| Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |

| Percent Moisture Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
|---------------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|
| Percent Moisture | 14.4 | 16.0 | 11 | 20 | |



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 Nº 36514

CHAIN-OF-CUSTODY

| ADDRESS: ARSON & ASSOCIATES | | | | | | | | DATE: 2/26/09PAGEOF PO #:DHL WORK ORDER #: | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------------------------|--|--|---------------------------------------|---------------|---------------|--|---------------|--|-------------|--------------|--|---|-------|--------------------|---------|---|-----|------|---|-----|-----------------|----------|----------|-------------|-------|-----------------------|----------|
| PHONE: | | EAY | | | · · · · · · · · · · · · · · · · · · · | | | | _ | • | PO# | ·: | | | | | | | _ D | IL V | VOR | ΚQ | RDE | R# | : | | ····· | | |
| PHONE: | MICH | EU É - | GREE | -70 | | | | | _ | | PRO | JEC | TLC | CA | LION | 1 OF | NA F | ME: | | 2- | 0 | L. | S | <i>-</i> | | | | | |
| ADDITIONAL REPORT | COPIES TO: _ | | | | | | | | _ | | CLIE | NT | PRO | JEC | T#: | | | | | | | _ 0 | OLLI | ECT | OR: | R. | BR | COK | <u> </u> |
| Authorize 5% surcharge for TRRP report? | W≑WATER | P=PAINT SL=SLUDGE OT=OTHER | | | PRES | T | | NC | | | | | S | N. | \$ \f | | / /§ | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | / | A SERVE | | | | |
| □Yes □ No | 3260 | 2 7< | | Containers | | NaOHO | | ERVED | | | 2/s | A R | | \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | 3 5 6 | | | | | | | | | | | | | |
| Field Sample I.D. | DHL Lab# Date | Time Matrix | Container Type | # of Cont | HOI | H,SO, O NaOHO | OE | UNPRESERVED | 44 44 4 | | | | | | | | | | | | | | | | | | FIELD | NOTES | } |
| BC-1 | 1 2-26 | 1:55 5 | 86Z | 1 | | | 1 | | X | ス | | | | 7 | 7 | 7 | 1 | | | | 7 | | 1 | | | (| OM | Post | TE. |
| Sc-L | 2 1 | 11:31 | | 1 | | | | | ì | | | | | | | | | | | | | | 1 | | | | | | |
| EC-1 | 3 | 1::30 | | П | 1 | | \prod | 7 | 7 | Π | | | \prod | | | T | T | Г | | | | | | Π^- | | | | | |
| W C-1 | 4 | llico | | \prod | | | 71 | _ | T | П | | | | | | \top | Τ | | | | \neg | _ | | | | | | • | |
| NC-L | 5 | 1:45 | | | | | \mathcal{T} | _ | 1 | $\dagger \dagger$ | | 1 | \Box | _ | 7 | 1 | 1 | 1 | 一 | | 一 | _ | \top | Π | | | T | 7: | |
| WC-1 NC-1 B-7 B-6 | | 2:80 | | | _ | | Ħ | 7 | # | 11 | | \dagger | 1 | 寸 | 1 | + | 1- | T | | | _ | 1 | | | 1 | 1 | iLA | A | |
| 12-1 | 7 1 | 2:15 | | V | | \vdash | V | 1 | J | $\!$ | _ | 十一 | 1-1 | | _ _ | 1 | 十 | | | | | 1 | 1 | | | 7 | il A | L ₈ 43 | |
| -U | | 7-13 | | | | †† | | - | - | 1 | \top | † | | _ | | - | - | \vdash | | - | _ | | - -` | + | 1- | | 710 | <i>I.</i> 4 | |
| | | | | | | \vdash | | ┪ | \dagger | \dashv | - | ╁ | ┼┼ | | - | | ╅╌ | | | | | | | ┪— | + | | | | |
| | | | | \vdash | -}- | \vdash | + | | ╬ | + | | ╁╌ | ╂═╂ | \dashv | | - | ╁╾ | ╀ | - | - | }- | + | ╁ | ┪— | ╂╌┥ | | | | |
| | | | | | | ╌┤ | | - | + | + | | ╀ | ╀ | | | - - | ╂ | ├- | | | | + | | ┼- | ╄┦ | | | | |
| | | | <u> </u> | | | | - | - | | - - | | | | _} | _ | - - | -}- | <u> </u> | | _ | | _ | _ | | <u> </u> | | | | |
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| | | | | | | | | | | | | <u> </u> | | | | | | | | | | | | | | | | | |
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| TOTAL | | <u> </u> | | 7 | | | 7 | 7 | 7 | 7 | | | | | | \top | | | | | | | 1.7 | | | | | | |
| RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) 2/2609 1 Care Fifth 02-26-0 | | | | | | _ | | 137 | | TUP RUSH | | | | TIME | | | | PATORY USE ONLY: VING TEMP: 5.5 C THERM #: | | | | | | | | | | | |
| RELINQUISHED BY: (Sig | nature) | DATE/ | ME (BE | CEIV | ED BY | : (Siç | matu | re) | | RUSH CALL FIRST RECEIVING TEMP: 5.5 THERM A | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Sig. | nature) | DATE/TI | ME RE | CEIVI | ED BY: | (Sig | matu | ne) | <u></u> | | | ١, | 2 DAY NORI | AAL | | | | a | CAF | RIE | R BI | ԼԼ# | | | MEN | | | | |
| ☐ CHL DISPOSAL® \$5.00 each ☐ Return | | | | | | OTHER (7) | | | | | <u></u> . | | | | | | | | | | | | | | | | | | |

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

| | · · · · · · · · · · · · · · · · · · · | | | | |
|---------------|---|---------------------------------------|------|--------------------------|--------------|
| Client: | Larson + Associates | | | | |
| Date/ Time: | 02-26-09 @ 1737 | ٠ | | | ; |
| | 326072 | | | | 1 |
| Initials: | JMF_ | | | | |
| | • | Obsellis | | , | |
| | Sample Receipt | Cnecklist | • | CII | ant Initiala |
| #1 Tempera | ature of container/ cooler? | (Yes) | No | 5.5 °C | ent Initials |
| | container in good condition? | (Yes-) | No | 3,5 | ; |
| | Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| | Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| | Custody present? | ⟨Yes⟩ | No | | |
| | instructions complete of Chain of Custody? | (Yes) | No | | - ; |
| | Custody signed when relinquished/ received? | (Yes) | No | | , , |
| | Custody agrees with sample label(s)? | (-Yes) | No | ID written on Cont./ Lid | |
| | er label(s) legible and intact? | (Yes) | No | Not Applicable | • • |
| | matrix/ properties agree with Chain of Custody? | · (Ýes | No | | . 1 |
| | ners supplied by ELOT? | (Yes) | No | | |
| #12 Sample | es in proper container/ bottle? | Yes | No | See Below | ı |
| #13 Sample | es properly preserved? | (-Yes | No | See Below | , , |
| #14 Sample | bottles intact? | Yes | No | | |
| #15 Preserv | vations documented on Chain of Custody? | (~Yes) | No | | |
| #16 Contair | ners documented on Chain of Custody? | Yes | No | | 1 : |
| #17 Sufficie | ent sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 All sam | ples received within sufficient hold time? | Yes | No | See Below | |
| #19 Subcor | ntract of sample(s)? | Yes ~ | No | Not Applicable | • |
| #20 VOC sa | amples have zero headspace? | (Yes | ∠ No | Not Applicable | |
| | | 4 - 4 : | | | |
| | Variance Docu | mentation | | | |
| Contact | Contacted by: | | | Data/Time: | i |
| Contact: | Contacted by, | <u> </u> | - | Date/ Time: | |
| Regarding: | | | | | |
| r.oga.ag. | | | | | <u> </u> |
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| Corrective A | ction Taken: | | | | i |
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| | Client understands and wor | | | • | 1 |

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







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

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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

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Contact: Michelle Green

Date Received in Lab: Thu Mar-05-09 08:37 am

Report Date: 10-MAR-09

Project Location:

Since 1990

Project Manager: Brent Barron, II

| | Lab Id: | 326564-0 | 001 | 326564-0 | 02 | 326564-0 | 03 | 326564-0 | 004 | | | |
|-----------------------------------|------------|-----------|-----------------|-----------|-----------------|-----------|-------|-----------------|-------|---|------|--|
| Anglesis Paguantad | Field Id: | B-8 (0- | l') | B-9 (0-1 |) | B-10 (5 |) | B-11 (5 | " | | | |
| Analysis Requested | 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 | Mar-10-09 17:00 | | Mar-10-09 17:00 | | 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. l | ND | 23.8 | ND | 30.2 | ND | 26.2 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.

The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

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.

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| 9701 Harry Hines Blvd , Dallas, TX 75220 | (214) 902 0300 | (214) 351-9139 |
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| 12600 West I-20 East, Odessa, TX 79765 | (432) 563-1800 | (432) 563-1713 |
| 842 Cantwell Lane, Cornus Christi, TX 78408 | (361) 884-0371 | (361) 884-9116 |



BS / BSD Recoveries



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 326564

Analyst: ASA

Date Prepared: 03/10/2009

Project ID: 8-0165

Date Analyzed: 03/10/2009

Lab Batch ID: 752019

Sample: 752019-1-BKS

Batch #: 1

Matrix: Solid

| Units: mg/kg | | BLAN | K/BLANK S | PIKE / B | BLANK S | PIKE DUPL | ICATE 1 | RECOVE | RY STUD | Y | |
|-----------------------------------|-------------------------------|----------------|--------------------------|----------------------|----------------|-----------------------------|------------------------|----------|-------------------------|---------------------------|------|
| TPH by EPA 418.1 | Blank Sample Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Spike Added | Blank Spike Duplicate | Blk. Spk Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | | [B] | [C] | [D] | [E] | Result F | [G] | | | | |
| TPH, Total Petroleum Hydrocarbons | ND | 2500 | 1830 | 73 | 2500 | 1840 | 74 | l | 65-135 | 35 | |



rorm 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 #:

Matrix: Soil

Date Analyzed: 03/10/2009

Date Prepared: 03/10/2009

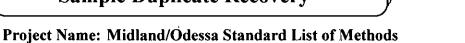
Analyst: ASA

Reporting Units: mg/kg

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



Sample Duplicate Recovery





Work Order #: 326564

Lab Batch #: 752072 Date Analyzed: 03/10/2009

Date Prepared:

Project ID: 8-0165

03/10/2009

1

Analyst: BEV

QC- Sample ID: 326967-001 D

Batch #:

Matrix: Soil

| Reporting Units: % | SAMPLE | /SAMPLE | DUPLIC | ATE REC | OVERY |
|--------------------|--------------------------------|-------------------------------|--------|---------------------------|-------|
| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |
| Analyte | | (B) | | | |
| Percent Moisture | 1.18 | ND | NC | 20 | |

CHAIN-OF-CUSTODY

| | | | | | | | _ | | | | - r | | | | | | | | | | | | <i>7</i> | / \ | 1 4 | \sim | <u> </u> | <u>, U U</u> | <u> </u> | <u>ו טי</u> |
|------------------------------------|------------------|----------|-----------------------------------|---------------------|---------------|-------|------------------|--|--|-------------|----------|-----------|-------|------------|---|----------------------------|------------|----------|----------|--|--|--------------|------------|--|---|---------------|-----------------|---------------|----------|-------------|
| A grson a | Q FEETE | | | | 507 h | ۷. M | arien | feld, | Ste. | 200 | | DAT | E: _ | 0 | 3-0 | 94 | - 0 | 9 | | | | | | | | | PAGE, | _/_ | OF_ | |
| A arson a ssocial | fès, Ir | ıc. | | | | | nd, T | | | | | | | | | | | | | | вν | VOF | ≀K C | ORD | ER: | #: | | | | |
| Environment | al Consulto | ants | | | | 432 | 2-687 | 7-09 | 01 | | | PRC | JEC | TL | OCA | ATIC | N C |)R N | MAN | E:_ | | | | | | | | | | |
| Data Reported to: | | | | <u> </u> | ., | | | | | | | LAI | PRO | JEC | CT # | : | <u>X -</u> | 0 | 6. | <u> </u> | | | | OLI | LEC | TOF | ₹: | Bre | OK | <u>S</u> |
| TRRP report? | S=SOIL W=WATE | | AINT SLUDGE | , | | PR | ESEF | RVAT | ION | | | | | / | | \ <u>\</u> | | | | [5] 59] | | | | X) | // | | | [3] | // | |
| Yes No | A=AIR | | OTHER | | | | | 7 | | | | | | | | / | // | \\$\\ | | /2 | 3/2 | | | %/, | \\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | /// | // | |
| TIME ZONE: Time zone/State: | 1 | | | | iers | | Č | SC CH | UNPRESERVED | | .6, | ./ | | | \\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | // | | | | | | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | |) // | // | | |
| MST | | T | | Ì | of Containers | | | 2 | SEF | į | 39/ | \$\Z | | | | (\$\). | \$% | | ×, | \\S\\\ | | | | | \times | | //. | | | |
| Field | | | | | ၂ ဒို | | HNO | Ž ш | PR | DIJO. | | | | 250 | | \\$\ightarrow{\partial}{2} | 3/ | | | | \?\ | / <i>8</i> / | \#\ *\ | | de/ | /, | // | | | |
| Sample I.D. | Lab# | Date | Time | Matrix | # | 오 | Î) | Ē □ | 5 | OHO SE | 18/ | <u> </u> | 35/30 | 13 | | 88g/ | <u> </u> | <u>%</u> | <u>%</u> |) {\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | <u>\$</u> | <u> </u> | <u>37</u> | / | <u>Z</u> , | <u>/</u> F | IELD N | OTES | |
| B-8 (0-1) | | 03-04-0 | 2.3.6. | <u>_</u> | _1_ | | | X | | | ζ | | | | | | | | | | | | | | | | _32 | 65 C | 24- | 01 |
| B-9 (0-1') B-10(5') B-11(5') | | <u> </u> | 2:40 | <u> </u> | - | | | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | | | _ _ | _ | | _ | | _ _ | | ļ | | _ | \bot | _ _ | | . | | | | | | ∞ |
| B-10(51) | <u> </u> | | 2:50 | <u> </u> | <u> </u> | | | _ | | | | | | | _ _ | | | _ | | | | 1 | <u> </u> | <u> </u> | | | | | - | <u>03</u> |
| B-11 (51) | | <u> </u> | 3:00 | igert | | | _ | 1 | <u>/ </u> | _/1 | <u> </u> | | | | | | _ _ | <u> </u> | | _ | _ _ | \perp | <u> </u> | <u> </u> | | | 1 | | | <u> </u> |
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| RELINCUISHED BY | Signature) | | DATE/TII | ME 8:32/ | RECEI | VED I | 8) ;YB | Signa I 🛆 | ture) A .O | 203 | 8: | 109 | 7 1 | | | | D TIM | ΛE | LAE | 3OR | ATOR | Y U | SE O | NLY: | : | | | | | |
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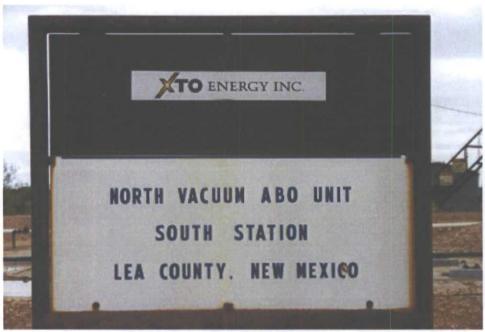
Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

| Client: | Larson Mssuc. | • | · | | |
|-------------|--|--|----------|---------------------------------------|--|
| Date/ Time: | 03/05/09 8:37 | + | | | |
| | | | | | |
| Lab ID#: | 326564 | | | | |
| nitials: | grott | • | | | |
| | Commis Descint | Oh a aleliat | | | |
| | Sample Receipt | Checklist | · | | Client Initials |
| #1 Tempe | erature of container/ cooler? | Yes | No | -0.5 °C | |
| | ng container in good condition? | ∠Yes | No | | |
| | dy Seals intact on shipping container/ cooler? | Yes | No | | |
| | dy Seals intact on sample bottles/ container? | Yes | No | (Not Present | |
| | of Custody present? | Yes> | No | (NOT FOOTH | |
| | e instructions complete of Chain of Custody? | ∠Yes | No | | |
| | of Custody signed when relinquished/ received? | Yes | No | <u> </u> | |
| | of Custody agrees with sample label(s)? | (Yes | No | ID written on Cont./ Lid | |
| | ner label(s) legible and intact? | <yes³< td=""><td>No</td><td>Not Applicable</td><td> </td></yes³<> | No | Not Applicable | |
| | le matrix/ properties agree with Chain of Custody? | ¿Yes: | No | 1 TOUT APPRICABILE | |
| | iners supplied by ELOT? | €Yēs | No | - | |
| | les in proper container/ bottle? | (Yes) | No | See Below | + |
| | oles properly preserved? | (Yes) | No | See Below | |
| | ple bottles intact? | CYES | No | OCC BCION . | |
| | ervations documented on Chain of Custody? | (Yes) | No | | + |
| • | niners documented on Chain of Custody? | CYes | No | | |
| | ient sample amount for indicated test(s)? | Yes | No | See Below | |
| | mples received within sufficient hold time? | Yes | No | See Below | |
| | ontract of sample(s)? | Yes | No | Not Applicable | |
| | samples have zero headspace? | Yes | No | Not Applicable | - |
| #20 TOO | ounipus nave zero medespass . | 1 .00 | 1 | Troc ripplicable | |
| | Variance Docu | mentation | | | |
| Contact: | Contacted by: | | | Date/ Time: | |
| Contact. | | • | - | Date/ Time. | - |
| Regarding: | <u>· · · · · · · · · · · · · · · · · · · </u> | | | | |
| | • | | | | |
| | | | | | |
| Corrective | Action Taken: | | | | |
| | · · | | | | |
| - | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · | |
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| | | | | | |
| | | • | | | |
| Check all t | | | | • | • |
| | Client understands and wor | uld like to pro | ceed wit | h analysis | |
| | Cooling process had begun | shortly after | sampling | g event | |

APD-D-

XTO Energy, Inc. N. Vacuum Abo Unit, S. Water Station Pit Closure Report



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, T175, 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

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| Appendix D | Release Notification, C-141 |
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| Appendix F | Contaminated Soil Manifests |

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:

Address:

575.441.1628

Secondary Contact:

Guy Haykus 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.

Figure 1 - Topographic Map



Figure 2 - Aerial

Environmental Consultants

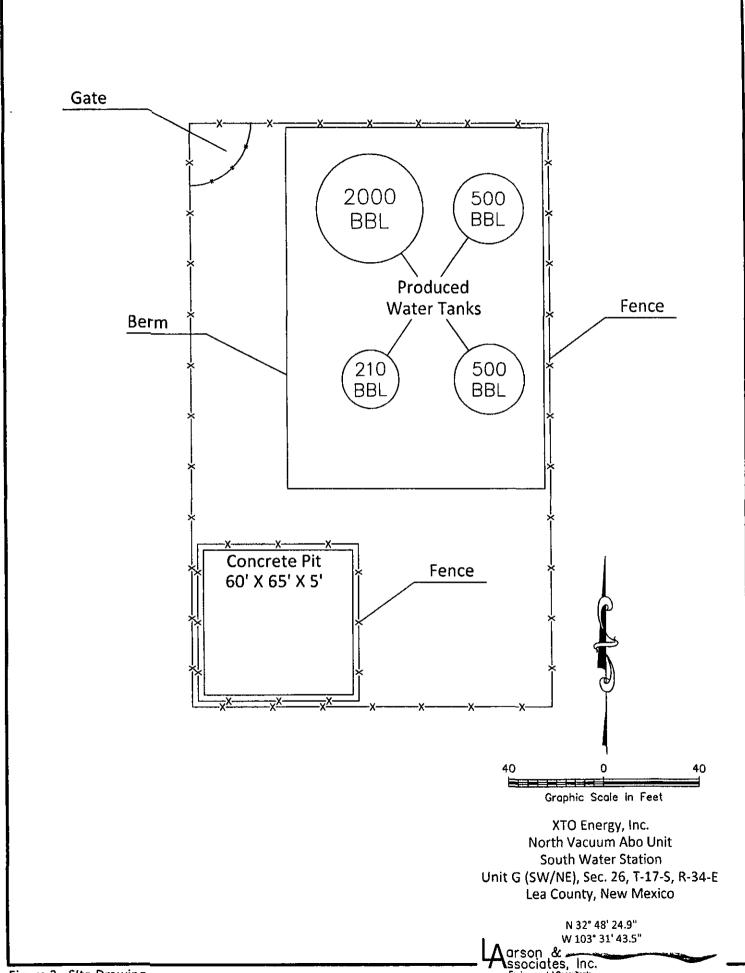
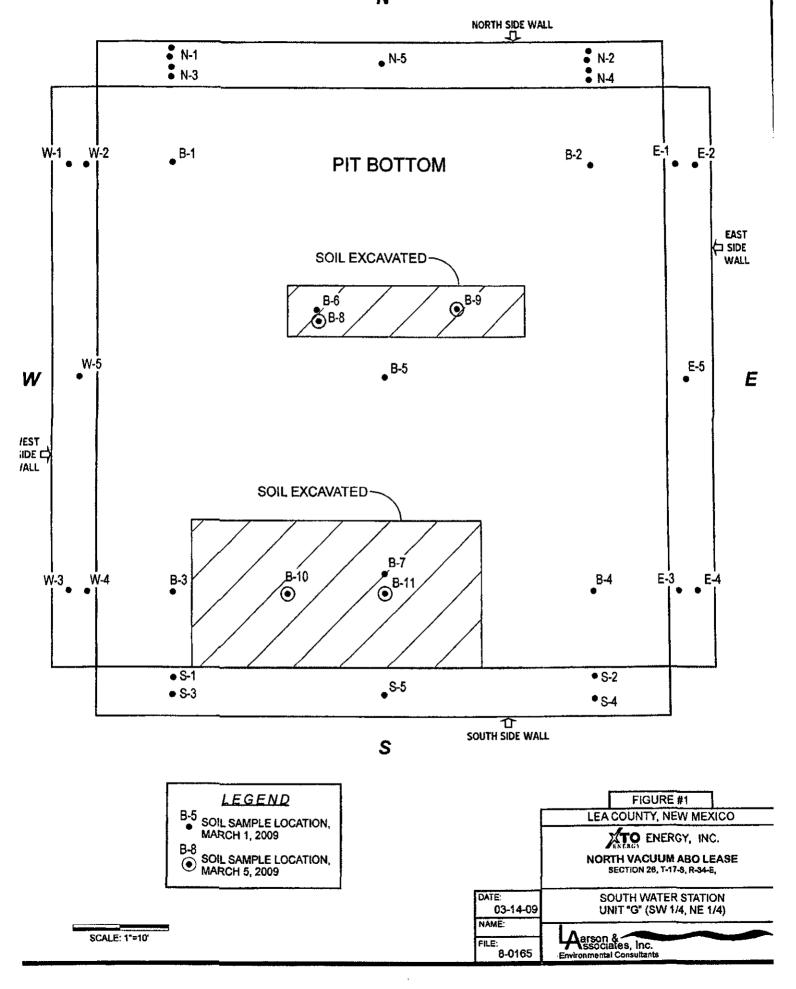


Figure 3 - Site Drawing



APD-A-

Form C-144 July 21, 2008

histrict I
1625 N. French Dr., Hobbs, NM 88240
District II
301 W. Grand Avenue, Artesia, NM 88210
histrict III
300 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

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 Sy | stem, Below-G | rade Tank, or | |
|--|---|------------------------------|-----------------------------------|---------------------------------------|
| Propo | sed Alternative Method | d Permit or Clo | sure Plan Applica | tion ' |
| Type of action: | Permit of a pit, closed-loop Closure of a pit, closed-loo | p system, below-grad | e tank, or proposed altern | ative method |
| | Modification to an existing Closure plan only submitte k, or proposed alternative metho | ed for an existing per | mitted or non-permitted p | it, closed-loop system, |
| J | k, or proposed alternative metho t one application (Form C-144) per | | January and any balany amada ta | ank on altanuativa nament |
| lease be advised that approval of this re vironment. Nor does approval relieve | equest does not relieve the operator of | f liability should operation | ons result in pollution of surfac | e water, ground water or the |
| Operator: <u>XTO ENERGY, INC</u> | , | 0 | GRID #: <u>5380</u> | |
| Address: PERMIAN DIVISION - | SE NEW MEXICO, P.O. BOX 700 |), EUNICE, NM 88231 | · | |
| Pacility or well name: <u>NORTH VA</u> | CUUM ABO UNIT SOUTH WAT | ER STATION / ABO | WELL NO. 305 (NEAREST | WELL) |
| API Number: 30-025-37971 | | OCD Permit Num | ber: | |
| U/L or Qtr/Qtr G Se | ection26 Township | 17SRange | 34E County: LEA | · · · · · · · · · · · · · · · · · · · |
| Center of Proposed Design: Latitud | | | | |
| Surface Owner: Federal State | Private Tribal Trust or India | n Allotment | | |
| <u>.</u> | | | | |
| NPit: Subsection F or G of 19.15 | 5.17.11 NMAC | | | |
| remporary: ☐ Drilling ☐ Worko | ver | | ı | |
| Permanent Emergency Ca | vitation P&A | | | • |
| X Lined Unlined Liner type: | Thickness 6 inches L | LDPE HDPE | PVC X Other CONCRI | ETE |
| String-Reinforced | • | • | , | |
| Liner Seams: Welded Factor | ry 🗌 Other | Volume: _3,47 | bbl Dimensions: | L_65' x W_60' x D_5' |
| Closed-loop System: Subsecti | on H of 19.15.17.11 NMAC | , | | |
| Type of Operation: P&A Dr | illing a new well Workover or ! | Drilling (Applies to act | tivities which require prior a | pproval of a permit or notice of |
| intent) Drying Pad Above Ground | Steel Tanks Haul-off Bips H | Other | • | • |
| Lined Unlined Liner type: | | • | | |
| Liner Seams: Welded Factor | _ | | | |
| The state of the s | | | | |
| Below-grade tank: Subsection | 11 of 19.15.17.11 NMAC | | • | |
| Volume: | obl Type of fluid: | | | |
| Tank Construction material: | | | | |
| Secondary containment with lea | k detection [Visible sidewalls, | liner, 6-inch lift and au | tomatic overflow shut-off | |
| ☐ Visible sidewalls and liner ☐ | Visible sidewalls only [Other] | | | |
| Liner type: Thickness | mil 🔲 HDPE 🗒 PV(| □ Other | | |

| s. Alternative Method: | | |
|---|---|--|
| Submittal of an exception request is required. Exceptions must be submitted to the Santa F | e Environmental Bureau office for consideration c | of approval. |
| 6. | | ······································ |
| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, | | mital . |
| Chain link, six feet in height, two strands of barbed wire at top (Required if located with institution or church) | un 1000 jeel oj a permanent restaence, schoot, nos | puai, |
| 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 of | open top (anks) | |
| 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 telepho | ne 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 l | 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 consideration of approval. | district or the Santa Fe Environmental Bureau off | ice for |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau of | office for consideration of approval. | |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below material are provided below. Requests regarding changes to certain siting criteria may r office or may be considered an exception which must be submitted to the Santa Fe Envir Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guabove-grade tanks associated with a closed-loop system. | require administrative approval from the appropri conmental Bureau office for consideration of app | iate district roval. |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or NM Office of the State Engineer - iWATERS database search; USGS; Data obtain | octom-grade tank: |] Yes ☐ No |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | watercourse or lakebed, sinkhole, or playa | Yes No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in exist (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | | Yes No |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in exi (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Series at the time of initial approaches. | Yes No |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than fi watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, if - NM Office of the State Engineer - iWATERS database search; Visual inspection (| ive households use for domestic or stock n existence at the time of initial application. | Yes No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well f adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtain | | ☐ Yes ☐ No |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspe | \ ₁ | ☐ Yes ☐ No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and M | ineral Division | ☐ Yes ☐ No |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Min Society; Topographic map | neral Resources; USGS; NM Geological | ☐ Yes ☐ No |
| Within a 100-year floodolain | | |

| - | FEMA map | Yes No |
|--|--|---------------|
| ustructurate Charles | 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 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 Degrating 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. | uments are |
| | .15.17.13 NMAC eviously Approved Design (attach copy of design) API Number: or Permit Number: | |
| Instruction that the state of t | 1-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC ctions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doced. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.1 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NM 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 19.15.17.13 NMAC | 5.17.9 AC |
| | eviously Approved Design (attach copy of design) API Number: | |
| _ | eviously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system) | stem that use |
| abovė , | ground steel tanks or haul-off bins and propose to implement waste removal for closure) | |
| | enent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC ctions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doed. 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 ₂ S, 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 | cuments are |
| Propo | osed Closure: 19.15.17.13 NMAC | |
| Туре: | Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop State Alternative Seed 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 co | |

| | | | | | |
|--|---|----------------------------|--------------------|--|--|
| ` L | 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 G of 19.15.17.13 NMAC | | | | |
| • | 16. | | | | |
| Ί, | 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 Name: Disposal Facility Permit Number: | | | | |
| i | | | | | |
| 1 | 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 Paguined for impacted green which will not be used for future service and operations: | | | | |
| | 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 | | | | |
| ֓֞֜֞֜֓֓֓֓֓֟֝֟֝֓֓֓֟֝֓֓֓֓֟֝֟֝֓֓֓֓֟֝֓֓֓֟֝֓֓ | 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 well | ls · | ☐ 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 well | ls | ☐ 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 well | ls | X Yes ☐ No ☐ NA | | |
| | Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lake lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ebed, sinkhole, or playa | ☐ Yes 🛛 No | | |
| ا | Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | initial application. | ☐ Yes 🗓 No | | |
| | Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use f watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the tir - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the propose | ne of initial application. | ☐ Yes 🛭 No | | |
| | Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under 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; US Society; Topographic map | GGS; NM Geological | ☐ Yes⊠ No | | |
| | Within a 100-year floodplain. - FEMA map | | ☐ Yes ☒ No | | |
| ľ | | | | | |
| | 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 Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC □ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 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 I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G 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: W. M. House | Date: <u>December 23, 2008</u> | | | |
| e-mail address: William Haykus@xtoenergy.com | Telephone: (432) 682-8873 | | | |
| OCD Approval: Permit Application (including closure plan) Closur | re Plan (only) OCD Conditions (see attachment) | | | |
| OCD Representative Signature: | Approval Date: 2/4/08 | | | |
| Title: Enimental Engineer | OCD Permit Number: | | | |
| 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: | | | | |
| | e closure activities have been completed. | | | |
| section of the form until an approved closure plan has been obtained and the 22. Closure Method: | e closure activities have been completed. | | | |
| zz. Closure Method: Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain. | e closure activities have been completed. Closure Completion Date: ernative Closure Method | | | |
| zz. Closure Method: Waste Excavation and Removal On-Site Closure Method Alt fif different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Syst Instructions: Please indentify the facility or facilities for where the liquids, | e closure activities have been completed. Closure Completion Date: ernative Closure Method | | | |
| zz. Closure Method: If different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Syst Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. | ernative Closure Method | | | |
| zz. Closure Method: Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Systemstructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: | ernative Closure Method Waste Removal (Closed-loop systems only) were That Utilize Above Ground Steel Tanks or Haul-off Bins Only: drilling fluids and drill cuttings were disposed. Use attachment if more than Disposal Facility Permit Number: | | | |
| zz. Closure Method: If different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Syst Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. | ernative Closure Method | | | |
| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Systemstructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and open Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation | ernative Closure Method | | | |
| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alt fif different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and open Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | ernative Closure Method | | | |
| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Systemstructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below) New Required for impacted areas which will not be used for future service and open 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 the content of the complete service and content of the content of the complete service and content of the co | ernative Closure Method | | | |
| Closure Method: Waste Excavation and Removal On-Site Closure Method Alt if different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Syst Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and open 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 mark in the box, that the documents are attached. | ernative Closure Method | | | |
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| Closure Method: Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Syste Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below) No. Required for impacted areas which will not be used for future service and open Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the following 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 | ernative Closure Method | | | |
| Closure Method: Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain. Closure Report Regarding Waste Removal Closure For Closed-loop Systemstructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below) Note Required for impacted areas which will not be used for future service and operation of the impacted areas which will not be used for future service and operation of the impacted areas which will not be used for future service and operation of the following Revegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the following 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 | ernative Closure Method | | | |
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| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain. 13. Closure Report Regarding Waste Removal Closure For Closed-loop Syst Instructions: Please indentify the facility or facilities for where the liquids, two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed o Yes (If yes, please demonstrate compliance to the items below) New Required for impacted areas which will not be used for future service and operation of the following mark in the box, that the documentation Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following 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 closured) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) | ernative Closure Method | | | |

| | losure Certification: ify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and occurring that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. | | | |
|-----------------|---|---|--|--|
| Name (Print): | •• | • | | |
| Signature: | Date: | · | | |
| e-mail address: | Telephone: | | | |



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



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

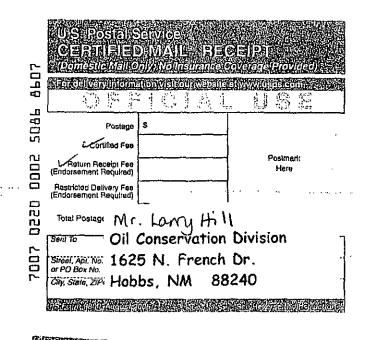
Cc: Myra Meyers/SLO Hobbs District

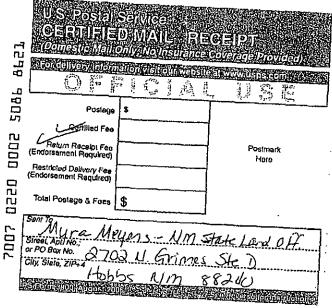
Mark Larson/Larson & Associates, Inc.

DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr.-Midland

Kristy Ward/XTO Energy Inc/ Regulatory Analyst-Midland

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-APD-C-

Invoice

Controlled Recovery Inc.

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

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

PECO/MIDLAND FEB 27 2009

Date Invoice # 2/25/2009 63531

Terms **Due Date** PO #

Net 30 3/27/2009

Generator Memo

XTO

Lease

SOUTH ABO UNIT

Well Rig

Company Man

Contaminated Soil Contaminated Soil

Bill To

XTO ENERGY INC

CONCRETE CONCRETE

18.00 18.00

144.00 212900 180.00 212954

2/24/2009 2/24/2009

HUNGRY HORSE HUNGRY HORSE

Subtotal Tax (NM Sales Tax 5.375%) Total

324.00 17.42 b \$341.42

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| CRI Representative | (Signature) | | 100 +000 | | | ······································ | |
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CONTROLLED RECOVERY, INC.
P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com
NMOCD Order R9166

| Bill to | | ····· | | | | |
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| Company/Generator | X | 0 | | | | |
| Lease Name | , 50UT, | | UNIT | T | | |
| Trucking Company | HUNGERY | Hansa: Vehic | cle Number 0 | Driver (Print) | | |
| Date 2 - 2 4. | 09. | | Time 12: | 54, | <u>'a</u> | .m. / p.ñ). |
| 🔲 Fluids 📆 | Soils | | Type of Material | | • | |
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| 2 /4/11/ 20110///3 | | That (Elst Obscription of | DESCRIPTION | , ,,,,, | | |
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| <u> </u> | | · | Jet C. | | | |
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| Volume of Material | 🔾 Bbls | | / Yard/ |) | ☐ Gallons | |
| ☐ Wash Out | Call Ou | - | After Hours | | ☐ Debris Charc | |
| RCRA Non-Exemple characteristics establis as amended. The follows: | ot: Oil field was | ste which is non-haz egulations, 40 CFR,26 | d gas exploration and producti ardous that does not exceed 51.21-261.24, or listed hazardo emonstrate the above-describe | the minimum sl us waste as defin | andards for waste hed in 40 CFR, part 26 | azardous I |
| items) MSDS Information | RCRA Haz: | ardous Waste Analysi | s 🔲 Process Knowledge 🕻 | Other /Provide | description above) | |
| CRI Approval# | | | a a roosso momenge | | . 2000 | |
| - Or (i Approvar ii) | | | | | | |
| Agent (Signature) | later | | ff f | | | |
| CRI Representative _ | (Signature) | Le Ville | | | | |
| ANK BOTTOMS | | | | | • | |
| | Feet | Inches | | | · | |
| 1st Gauge | | | BS&W/BBLS Received | d : | BS&W | % |
| 2nd Gauge | | | Free Wate | er | | |
| Received | | | Total Receive | d | | |
| | | | | *************************************** | 212 | 954 |
| White - CRI | orm C138 | Canany - CRI Accounting | Dink CDI | Diane | Cold Tonas | |

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

Bill To

SUITE 800

United States

Contaminated Soil Contaminated Soil Contaminated Soil

XTO ENERGY INC 200 N LORRAINE STREET

MIDLAND TX 79701-4754

Date Invoice # 2/26/2009 63566

Terms **Due Date** PQ# Generator Net 30 3/28/2009

REC'D/MIDLAND

Memo Lease Well

XTO NVAU SOUTH

FEB 27 2009

Rig

Company Man

0=2.25.09

material references to the second section of the second of the second section of the se 216.00 432.00 216.00 216.00 213185 213173 213131 213101 Contaminated Soil 18.00 -

2/25/2009 2/25/2009 2/25/2009 2/25/2009

HUNGRY HORSE AMIGO HUNGRY HORSE HUNGRY HORSE

Subtotal Tax (NM Sales Tax 5.375%) Total

1,080.00 58.05 \$1,138.05

TOPax

NVA South Water State ion 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 | | | | | | · | |
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| Company/Generat | or X | <u>5</u> | | | | | |
| Lease Name | | Some | NVAU. | South | | | |
| Trucking Company | Hugga. | of faction! | /ehicle Numbe | 102- | Driver (Print) | 1 Legumes | <u>, </u> |
| Date > - > | 5 006 | · | | Time | 2:1 | 6 | a.m./p.m. |
| | 5 4 " | | Type of I | Material | | | |
| ☐ Fluids ☐ Tank Bottoms | ©√Soils □ Other Ma | iterial (List Descript | ion Rolewi | Poceivin | ig Area <u>5≤</u> | 55 | |
| Ca Talik Bottoms | Ca Other Me | iterial (List Descript | DESCRI | | | · | |
| , | | | DESCRI | FIION | Court no la | | |
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| Volume of Material | □ Bbls. | | | Prard 12 | | . Q Gallons _ | |
| ☐ Wash Out | · 🗀 Call C | Out | • | ☐ After Hours | | 🔾 Debris Ch | arge |
| 1988 regulatory determined RCRA Exempt: waste. RCRA Non-Exempt: waste. RCRA Non-Exempt: characteristics esta as amended. The fitems) | Oil field wastes . empt: Oil field w blished in RCRA | generated from a vaste which is nor regulations, 40 CF | il and gas explo n-hazardous tha R 261.21-261.2 | ration and product t does not excee 4, or listed hazard | ction operations and the minimum st. ous waste as defin | andards for waste | nazardous by 261, subpart D |
| MSDS Information | П ВСВА На | zardoue Waste An | alvela | ess Knowledge | Other /Provide | description above | a) |
| CRI Approval # _ | | Zaroos waste Ar | | ess Knowledge | | description above | " |
| CRI Approval # | 10 | ** | <u>,,: ∸,,,,,,,,</u> * | | | | |
| Agent Finalis | of Tong | · | | · (| } | | |
| (0,9)0,07 | | _ | • | , | / / | | |
| CRI Representative | (Signature) | | | | an fil | | · |
| TANK BOTTOMS | | | | | ž. | | |
| TANK BUTTOMO | Feet | (nches | | • | | | |
| 1st/Gauge | | | BS& | N/BBLS Receive | ed | BS&W | % |
| 2nd Gauge | | | | Free Wat | er | | |
| Received | | - | | Total Receive | ed | | |
| ` | · — · · · · · · · · · · · · · · · · · · | | | | | 21 | 3165 |
| €. White - CRI | Form C138 | Canary - CRI Acco | unting | Pink - ÇR | il Plant | Gold - Trans | |

CONTROLLED RECOVERY, I..C.
P.O. Box 388 · Hobbs, New Mexico 88241-0388 · (575) 393-1079 · www.crihobbs.com
NMOCD Order R9166

| Bill to | | | | | | |
|---|--|--|---|---|--|---|
| Address | | | | | <u>, j</u> | |
| Company/Generator | ×7:0 | | | | | |
| Lease Name | | UV2U 5 | outh Wester | Station | | · |
| Trucking Company | Amico | Vehicle Nu | | Driver (Print) | therm 14 | 21 |
| | | | Time | | :44 | a.m. / p,m- |
| Date 2. > | <u> </u> | Type | of Material | <u></u> | · / Sm | |
| ☐, Fluids | Soils | ,,,,, | | | _ , | |
| ☐ Tank Bottoms | Other Materia | (List Description Below) | , Receivin | ig Area | | |
| | | DE | SCRIPTION (| con 1 5 | · · · | |
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| Volume of Material | D Bbls | | Yard | 000)4_ | 🗖 Gallons | |
| ☐ Wash Out | ☐ Call Out | | ☐ After Hours | | Debris Ch | |
| waste. RCRA Non-Exemple characteristics establis | ot: Oil field waste shed in RCRA regu wing documentati | which is non-hazardou elations, 40 CFR 261:21- on is attached to demon ous Waste Analysis | is that does not exceed 261.24, or listed hazard strate the above-describ | d the minimum sta ous waste as define oed waste is non-ha | ndards for waste d in 40 CFR, part zardous. (Check | e hazardous by 261, subpart D the appropriate |
| • | (Signature) | | | | | |
| TANK BOTTOMS | Feet_ | Inches | | | | • |
| 1st Gauge | | | BS&W/BBLS Receive | ed | BS&W | % |
| 2nd Gauge | | 7 | Free Wat | er | | |
| Received | | | Total Receive | ed | | |
| | · · · · · · · · · · · · · · · · · · · | | | | 21 | 3173 |
| Fi While - CRI | orm C138 | anary - CRI Accounting | Pink - CR | il Piant | Gold - Transp | |

Gold - Transporter

THE COLOR PRINTER - 47521

CONTROLLED RECOVERY, INC.
P.O. Box 388 · Hobbs, New Mexico 86241-0388 · (575) 393-1079 · www.crihobbs.com
NMOCD Order R9166

| Bill to | | | | | <u> </u> | ······ |
|---|---|--|---------------------------------------|---|--|--|
| Address | | | | : | | |
| | | | | | The same of the sa | |
| Company/Generator | XTO | | , | | | |
| Lease Name | NVA | U Soll G | Valu S | Fra. T. com | | |
| Trucking Company / | and the same | Vehicle Number | 07 - | Driver (Print) | Benny | |
| Date 2-25.0 | 7 | 7 | ime | 173-70 | | ,ŋg./ p.m. |
| مور د | / | Type of Ma | aterial | | | |
| 🔾 Fluids න් | Soils | • • | | .*\ | | |
| ☐ Tank Bottoms ☐ | Other Material (List Descri | ription Below) | Receiving | Area | 1 | |
| | | DESCRIP | FION | (Fine en | <i></i> | |
| | · · · · · · · · · · · · · · · · · · · | | | | | |
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| Volume of Material | ☐ Bbls | | Yard / 2 | | ☐ Gallons | |
| ☐ Wash Out | ☐ Call Out | | After Hours | | Debris Charg | - |
| waste. RCRA Non-Exempt: characteristics establishe | eld wastes generated from Oil field waste which is red in RCRA regulations, 40 ng documentation is attach | non-hazardous that of CFR 261,21-261,24, | loes not exceed or listed hazardou | the minimum stand s waste as defined i | lards for waste h | iazardous I |
| items) | ng documentation is attach | ied to demonstrate th | e above-describer | 1 waste is non-naza | roous. (Check tin | е арргорла |
| MSDS Information 🚨 | RCRA Hazardous Waste | Analysis 🚨 Proces | s Knowledge | Other (Provide de | scription above) | |
| CRI Approval# | | | | | | |
| laant | • | | \sim | • | | |
| (Signature) | .0 | | -/-)- | 1.1 6 | <i></i> | |
| RI Representative | The House | | 1 learn | Mak | | |
| | (Signature) | | ė | 3 | | |
| ANK BOTTOMS | Feet Inches | · · · · · · · · · · · · · · · · · · · | · | | | |
| 1si Gauge | | BS&W/ | BBLS Received | | BS&W | % |
| 2nd Gauge | | | Free Water | | | |
| Received | | | Total Received | , | | |
| , | | | | | 213 | 131 |
| Form White - CRI | Canary - CRLA | ecounting | Pink - CPI D | logi | Cold Transcri | ساس ب سد |

THE COLOR PRINTER - 17521

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

| Bill to | 34 | | | | | Seretto | ndson |
|---|--|--|--|---------------------------------------|---|-------------------------------------|---------------------------------|
| Address | New York (1997) | | ····· | | | | <u></u> |
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| Company/Generator | | , , , , , , , | J. 1. | <u> </u> | **** | | |
| Lease Name | } | YAU 50- | | | | | |
| Trucking Company | 7 | 1/012-1 | /ehicle Number | <u> </u> | Driver (Print) | ! Long | |
| Date > > - | -04/ | | | ime | 10,00 | | a.m./p.m. |
| : 🖸 Fluids | 2 Soils | | Type of M | aterial | | | |
| | Other Mate | rial (List Descripti | ion Below) | Receiving | حے Area | . 5~/ | |
| | | | DESCRIP | | 1= 600 | 5.4- | |
| | | | | 1 | Ju / 10 / | 2141 | |
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| Volume of Material ☐ Wash Out | ☐ Bbls ☐ Call Ou | | | <u>منہ / Yard</u> After Hours | | ☐ Gallons _ ☐ Debris Ch | |
| RCRA Exempt: C waste. RCRA Non-Exen characteristics establ as amended. The folitems) | npt: Oil field was ished in RCRA re | te which is non gulations, 40 CF | n-hazardous that R 261.21-261.24 | does not exceed or listed hazardou | the minimum star us waste as defined | ndards for wast I in 40 CFR, par | te hazardous rt 261, subpart |
| MSDS Information | RCRA Haza | rdous Waste An | alysis 🚨 Proce | ss Knowledge C | Other (Provide d | escription abov | 'e) |
| CRI Approval # | · · · · · · · · · · · · · · · · · · · | - , | <u></u> | | | | |
| Agent | | | | | | | |
| (Signature) CRI Representative | Bu | 1 Pm | | Kan | Ma | Law | |
| IANK BOTTOMS | | - | | ٠ | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , | _ |
| ۲ | Feet | Inches | | | | · | |
| 1st Gauge | | | BS&W | /BBLS Received | 1 | B\$&W | % |
| 2nd Gauge | - | * | | Free Wate | r | | |
| Received | | | | Total Received | d | <u> </u> | |
| - | , | | | | | 21 | 13101 |
| White - CRI | Form C138 | Canary - CRI Acco | untino | Pink - CRLF | Plant | Gold • Trans | |

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 U 4 2009

BIII TO XTO ENERGY INC 200 N LORRAINE STREET SUITE 800 MIDLAND TX 79701-4754 United States Date Invoice #

Terms Due Date PO #

Generator

Memo Lease Well

Rig Company Man 2/27/2009 63606

Net 30 3/29/2009

XTO

NORTH VACUUM ABO

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|---------------------|--|------|--------|---------|-----------------|----------------|------------------------------|
| Contaminated Soil | 1 (14) + 1 (| 20 | | 18.00 | 360.00 - 213261 | 2/26/2009 | . 17 CL 194 |
| : 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 - | 218.00 213363 | 2/26/2009 | HUNGRY HORSE |
| · Contaminated Soil | ; | 12 : | | 18.00 | 216.00 213380 | 2/26/2009 | HUNGRY HORSE 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 Soll | | 12 | | 18.00 3 | 216.00 213269 | 1 51/201/2008 | I NOROTH HOUSE |
| • | | | | • | } | | |

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

The Annual Control

10 P9.

| Bill to | | | | | | | |
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| Address | | | | | | <u> </u> | |
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| Company/Generator | VTO | | | | · (- (- (- (- (- (- (- (- (- (| | |
| Lease Name | | Month | I | 130 Sout | 7 | | |
| Trucking Company | KIM | | Vehicle Numbe | 113 | Driver (Print) | <u> ۲-دو</u> | - |
| Date 2 - 2 (| , <u>'05</u> | | | Time | <u> </u> | 70 | a,m:/p.m. |
| ☐ Fluids < | ☑ Soils | | Type of | Material | ı | | |
| | ☐ Solls ☐ Other Mate | erial (List Descri | iption Relow) | Receiving | Area 5 | 5/ | |
| | | <u></u> | DESCR | <u> </u> | Or Sai | | |
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| - 34, - 34, | | | | | | | |
| Volume of Material | ☐ Bbls | | | Yard 2 | وت. | ☐ Gallons | |
| ☐ Wash Out | ☐ Call Ot | ut | | After Hours | | ☐ Debris Ch | |
| 1988 regulatory determined RCRA Exempt: O waste. RCRA Non-Exem characteristics establicas amended. The follows: | il field wastes g pt: Oil field was shed in RCRA re | enerated from ste which is n egulations, 40 (| oil and gas exploon-hazardous the CFR 261.21-261.2 | pration and production at does not exceed 24, or listed hazardou | on operations and the minimum stan | dards for waste | hazardous by 261, subpart D. |
| items) MSDS Information | | ardoua Master / | Samboria D Doo | ana Kanaudadaa |) com /D /a /a. | | , |
| | | ardous vvaste A | Analysis 🖵 Prod | cess knowledge C | Other (Provide de | escription above |) |
| CRI Approval # | | 9 | | | | | |
| Agent (Signature) | ISUS Le | J24 | | ···· | | | |
| / / | | / | | , Carr | m. S | - | |
| CRI Representative _ | (Signature) | | | 1 | C//(A_7. | <u>, , , , , , , , , , , , , , , , , , , </u> | |
| TANK BOTTOMS | | | | , | | | |
| _ | Feet | Inches | | | | · | |
| 1st Gauge | | | BS& | W/BBLS Received | 1 | BS&W | % |
| 2nd Gauge | | | | Free Water | r | | |
| Received | | | | Total Received | | | |
| | | | | • | | 21 | 3261 |
| F While - CRI | orm C138 | Çanary - CRI Ac | counting | Pink - ÇRI P | Plant | Gold - Transp | |

| Bill to | | | | | | · · · · · · · · · · · · · · · · · · · | |
|---|--------------------------------------|--|------------------------------------|---|---|---|----------------------|
| Address | | | | | | | |
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| Company/Generato | r XTO | | | | | | |
| Lease Name | · | North U | AC AB | a Sout | (2) | | |
| Trucking Company | Amig | Q Ve | hicle Number | 4 | Driver (Print) | Humpa | |
| Date -> - 2 | 6.09 | | | Time | 8:38 | g, | m./p.m. |
| _ | _ | | Type of M | aterial | | | |
| ☐ Fluids☐ Tank Bottoms | ☐-Soils | erial (List Description | n Polovil | Receiving | a Area 5 | Q: 5"-/ | |
| | Of Other Water | anai (Est Descriptor | DESCRIP | | | - 7 | |
| | | | DESCRIP | 11011 | (0007 | 70- ' | |
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| Volume of Material Wash Out | ☐ Bbls ☐ Call Ot | | | Yard <u>2</u> |) | ☐ Gallons ☐ Debris Charg | |
| waste. RCRA Non-Execonariate in RCRA Non-Execonariate is consistent as amended. The foliatems) MSDS Information CRI Approvalue Agent | olished in RCRA r llowing documen | egulations, 40 CFR tation is attached to | R 261.21-261.24 o demonstrate t | , or listed hazardo he above-describ | ous waste as define ed waste is non-ha | d in 40 CFR, part 26 zardous, (Check the | 1, subpart D, |
| CRI Representative | (Signature) | Ψ) | |) (e | m M | witz | |
| TANK BOTTOMS | Pank | V . | | | | Ò | |
| 1st Gauge | Feet | Inches | BS&W | //BBLS Receive | ed | BS&W | % |
| 2nd Gauge | | | | Free Wate | er | | -,, |
| Received | | | | Total Receive | d | | |
| | Form C138 | | | | | 2137 | 264 |
| White - CRI | | Canary - CRI Accour | าปกฎ | Pink - CRI | Plant | Gold - Transporte THE COLOR | n PRINTER - #7521 |

ONTROLLED RECOVERY, I. C.
P.O. Box 388 · Hobbs, New Mexico 88241-0388 · (575) 393-1079 · www.crihobbs.com
NMOCD Order R9166

| Bill to | | | | | | | | |
|--|---|--|--|---|---------------------------------------|---------------------------------------|--|--------------|
| Address | | ···. | | | | | | |
| Company/General | or XT 6 | D : N a | (1.6 Jan | · · · · · · · · · · · · · · · · · · · | | <u></u> | | |
| Lease Name | | | | 12/13 | 500 | 1-C 5 | 4- | ~ |
| Trucking Company | 12 5 W | (v | ehicle Number | 113 | | er (Print) | Jesus | |
| عند ح Date | | L | 7 | ime | _ | 1012 | | pr. 1 p.m. |
| | ~ | | Type of M | aterial | | <u> </u> | <u> </u> | |
| C Fluids | Q Soils | | •• | | | _ | | |
| ☐ Tank Bottoms | Other Mate | erial (List Description | on Below) | Rec | eiving Area | | 57 | |
| vic | | | DESCRIP | TION | | Con | L. Joul | |
| | | ······································ | ······································ | | | | | |
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| olume of Material | 🔲 Bbls. 🗻 | | | Yard | 20 | · | ☐ Gallons | · |
| ☐ Wash Out | Call O | ut | ~ [| After Ho | urs | | Debris Charg | е |
| 1988 regulatory determined the company of the compa | Oil field wastes g empt: Oil field wa blished in RCRA r | ste which is nor egulations, 40 CF | -and gas explora | tion and pro toes not ex or listed ha | oduction open ceed the min | nimum stand | tards for waste ha in 40 CFR part 261 | zardous by |
| A MSDS Information | RCRA Haz | ardous Waste Ana | ilysis 🔲 Proces | s Knowled | ge 🔲 Other | (Provide de | scription above) | |
| I CRI Approvat#2 | | | | | | | | |
| | 1 | . / | | | | | | |
| gent Signature | 1) | | | | | 7/ | | |
| Representative | | | | | 1/ lun | s M | | |
| · | (Signature) | | | | | | | |
| NK BOTTOMS | Fourt | !! | | | | | | |
| | Feet | Inches | | | | · | <u></u> | |
| 1st Gauge | | ` | BS&W/ | BBLS Red | eived | · · · · · · · · · · · · · · · · · · · | BS&W | % |
| 2nd Gauge | | المر. | | Free | Water | | | |
| Received | į | | | Total Rec | eived | | | |
| · | | | <u> </u> | 1,000 | | | 2132 | 92 |
| While - CRI | Form C138 | Canary - CRI Accou | nting | Pink | - CRI Plant | | Gold - Transporter | O C. |

| Bill to | ······································ | | | | |
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| Address | | | | | |
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| Company/Generator | <u> </u> | 74 // | Ell. ano | 16.0 | <u></u> |
| Lease Name | 1/ | north | | - South ST | |
| Trucking Company | My, | · O V | ehicle Number 4/ | Driver (Print) | Human |
|) -) 6 | 200 | | Time | 10:5 | 'F a.m./p.m. |
| ☐ Fluids | Soils | | Type of Material | | , , , , , , , , , , , , , , , , , , , |
| 7 Tank Bottoms | U Other Mate | erial (List Descripti | | elving Area | 7, / |
| | | | DESCRIPTION | Conf | <u> </u> |
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| 4: | | | | | |
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| olume of Material | 🔲 Bbls | | D Yard | 7.0 | Gallons |
| ☐ Wash Out | Call O | ut | ☐ After Ho | urs | Debris Charge |
| waste. RCRA Non-Exercharacteristics estables amended. The folitems) MSDS Information CRI Approval # | npt: Oil field wa Ished in RCRA r Iowing documen | ste which is non egulations, 40 CF tation is attached | -hazardous that does not ex R 261.21-261.24, or listed has | ceed the minimum ste cardous waste as define scribed waste is non-ha | d are not mixed with non-exemplandards for waste hazardous bed in 40 CFR, part 261, subpart Eszardous. (Check the appropriat description above) |
| (Signature) | | SECT . | 1 10 mg | | |
| RI Representative | (Signature) | | Mu Ma | | |
| | (Oldinatore) | | | | |
| NK BOTTOMS | Feet | Inches | | | |
| 1st Gauge | | 17701103 | BS&W/BBLS Red | eived | BS&W % |
| 2nd Gauge | | | Free | Water | |
| Received | | | Total Rec | | |
| | Form C138 | | | | 213294 |
| White - CRI | | Canary - CRI Accou | enting Plnk | - CRI Plant | Gold - Transporter THE COLOR PRINTER - #755 |

| 3ill to | | | · | | | |
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| \ddress | | | | ····· | | |
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| Company/Generator | ×70 | ······ | (1.12 | | | |
| .ease Name | | north V | WC ABO | Soulle. |) / | |
| Trucking Company | Amigo | Vehicle Num | ber 🛵 | Driver (Print) | Hunana- | |
| Date 7 - 26 | - Sty | | Time | <u> </u> | <u>د د</u> | a.m. / p.m. |
| r Domestala | 7 | Type o | f Material | | | |
| ☐ Fluids ☐ Tank Bottoms | Soils Other Material (| List Description Below) | Receiving | Area 52/ | 5 | |
| - Tank Bottoms | - Other Waterial (| | RIPTION | Alea | | |
| | | DEGC | KIFTION | | | |
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| olume of Material | ☐ Bbls. : ☐ Call Out | | Yard | <u> </u> | ☐ Gallons | |
| 1988 regulatory determ RCRA Exempt. C waste. RCRA Non-Exem characteristics establi | ination, the above designed in the control of the c | ce Conservation and Re scribed waste is: (Check ated from oil and gas exp hich is non-hazardous to tions, 40 CFR 261.21-261 is attached to demonstra | the appropriate classification and production and production and exceed at does not exceed 24, or listed hazardou | cation) on operations and the minimum star s waste as defined | are not mixed windards for waste | ith non-exemp hazardous by 26.1 subpart D |
| → MSDS Information/ | RCRA Hazardou | s Waste Analysis 🔘 Pr | ocess Knowledge 🚨 | Other (Provide d | escription above) | |
| CRI Approval # | WHIII | 0.00 | | | | |
| RI Representative | (Signature) | | Hu | Muse | | |
| NK BOTTOMS | Feet | Inches | | | | |
| 1st Gauge | | BS | &W/BBLS Received | | BS&W | % |
| 2nd Gauge | | | Free Water | | | |
| Received | | | Total Received | | | • |
| ŗ | form C138 | | | | 213 | 3322 |

Pink - CRI Plant

Gold - Transporter
THE COLOR PRINTER - #7521

Canary - CRI Accounting

White - CRI

| Bill to | | | | ······· | | | |
|--|---|---|--|--|--|---------------------------------------|---|
| Address | <u> </u> | | | | | | |
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| Company/General | tor $\lambda 70$ | | 1-1-01 | | ······································ | | ···· |
| Lease Name | | · * · · · · · · · · · · · · · · · · · · | AC ABO | Sac. 44 | F+ | | |
| Trucking Company | / | 1. Ve | chicle Number | <u> </u> | Driver (Print). | Asus | |
| Date 2.26 | | | Tim | | <u> </u> | <u> </u> | a.m./p.m. |
| ☐ Fluids | Z Soils | | Type of Mate | erial | | ~ F | _ |
| ☐ Tank Bottoms | Other Mat | erial (List Descriptio | n Below) | Receiving | Area | 3007 | |
| | | ···· | DESCRIPTION |)N | 1271 | Sor! | <u> </u> |
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| | td473* | | | ļ <u></u> | | | |
| | 1413 | | | <u> </u> | | | <u>*:</u> - |
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| ************************************** | ~- - | | | | | | |
| /olume of Materia | I D Bbls. | | 37.97 | ard | 0 | Gallons_ | , |
| D Wash Out | Call O | Jt | 5.107 | After Hours | | Debris C | harge |
| waste. RCRA Non-Ex characteristics esta | : Oli field wastes of empt; Oil field wa ablished in RCRA r | generated from oil ste which is non- egulations, 40 CFF | e is: (Check the app and gas exploration hazardous that doe R 261.21-261.24, or to demonstrate the a | and productions not exceed listed hazardou | on operations and the minimum sta | indards for was | te hazardous by 1261, subpart D. |
| MSDS Information | n 🔲 RCRA Haz | ardous Waste Ana | lysis 🔲 Process F | Knowledge C | Other (Provide | description abov | re) |
| ☐ CRI Approval#7_ | | 0 | , | | | | / |
| // | 1 | | | - | | | |
| Agent <u>X</u> (Signatur | e) | Tur | <u> </u> | /_ | | | |
| RI Representative | _ | · | /. | | 1156 | | |
| AL Lebieserians | (Signature) | | | - Carlot - S | | , ,,,, | |
| ANK BOTTOMS | | , | • | | | • | |
| | Feet | Inches | | | ئو | | |
| 1st Gauge | | | BS&W/BE | LS Received | { | BS&W | % |
| 2nd Gauge | | | | Free Water | | | |
| Received | . , | | : To | otal Received | | | |
| White - CRI | Form C138 | Canary - CRI Accoun | nting . | Pink - CRt P | lant | Gold - Trans | 3353 Sporter OLOR PRINTER - #7521 |

| Bill to | | | | | | | | |
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| \ddress | | | | | | | | |
| Company/Generator | | 7) | | | | | | |
| .ease Name | | HONF | (VAC | 1 130 | 1504+ | 2.6 | </td <td>_</td> | _ |
| irucking Company | 12 11 | | nicle Number | | | · (Print) | 1ESUS | |
| | 12.10 | Vei | ncie ivalibei | // Time | | | | a.m. / p.ør. |
|)ate .) | 26.09 | | Time of B | | | | 2:24 6 | ли. г р.кг. |
| ☐ Fluids | Soils | | Type of N | nateriai | | | | |
| ☐ Tank Bottoms | Other Materia | al (List Description | Below) | Recei | iving Area _ | 50- | 57 | <i></i> |
| | · · · · · · · · · · · · · · · · · · · | | DESCRI | PTION | | (con. 1 | / 5 / | |
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| Malama a filata dal | D b.1- | | 077 | | // | | C. Callana | |
| Volume of Material Wash Out | Bbls. | | - 5 5 | Yard | | | ☐ Gallons ☐ Debris Char | |
| 1988 regulatory determ RCRA Exempt: C waste. RCRA Non-Exem characteristics establ as amended. The following | oil field wastes gen npt: Oil field waste ished in RCRA regi | erated from oil a which is non-hulations, 40 CFR | azardous that 261.21-261.2 | ration and pro does not exe 4, or listed haz | duction opera ceed the min ardous waste | tions and a mum stand as defined i | dards for waste in 40 CFR, part 2 | hazardous by 61, subpart D, |
| items) | | | | | Г) он | . | | |
| MSDS Information | LI RCRA Hazard | lous Waste Analy | ysis 🖵 Proc | ess Knowledg | e U Other! | ebiver4) | scription above) | • • • |
| CRI Approval # | | · · · · · · · · · · · · · · · · · · · | | | ₁ | | | |
| Agent Legus | Lepla | | | | | · | | |
| / (Signature) | , | | | | /// | | | |
| CRI Representative | (Signature) | | · | Men | - 1010 | 245 | · | |
| TANK BOTTOMS | | | | | • | 9 | | |
| ANN SOLIONS | Feet | Inches | | | | | | |
| 1st Gauge | · | | BS&\ | V/BBLS-Rec | eived | | BS&W | % |
| 2nd Gauge | | | " Seale Se | Free V | Vater | · | <u> </u> | , |
| Received | | renne mov Leggyan (| ,, | Total Rec | eived | | , | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | 213 | 318 |
| White · CRI | Form C138 | Canary - CRI Account | ing | Pink - | - CRI Plant | · | Gold - Transpor | • |

| 3ill to | ···· | | | | | | |
|---|---|---|---------------------------------------|--|-------------------|---|--------------------------------|
| Address | | · | | | | | |
| | | | | | | | |
| Company/Generate | or $\chi 7 \%$ | | · · · · · · · · · · · · · · · · · · · | 7 to | | | |
| .ease Name | <u>-</u> | Morde | VAC A | BO SOUL | (e J7. | | |
| .rucking Company | Hungry | How sum | Vehicle Numb | per OZ | Driver (Print) | Bouney | |
| Date 2 - 76 | . 09 | <u> </u> | | Time | 3. | 00 | a.m. / p.m. |
| | | • | Type of | Material | | | |
| Fluids | Soils | arial atta Occasi | | Darahata | | 22.57 | |
| Tank Bottoms | — Uner Mac | erial (Ust Descri | | Receivin | g Area | | |
| | | | DESC | RIPTION | (654 1. | 20.7 | |
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| | | | | 1, | | | |
| /olume of Material | □·Bbls. | | | Yard | <u> </u> | Gallons | |
| ☐ Wash Out | ☐ Call O | ut | | ☐ After Hours | | Debris Char | ae |
| waste. RCRA Non-Exectoristics estates as amended. The fi | empt: Oil field wa blished in RCRA i | aste which is no regulations, 40 0 | on-hazardous ti CFR 261,21-261 | ploration and product nat does not exceed .24, or listed hazardo te the above-describ | d the minimum sta | ndards for waste I d in 40 CFR, part 2 | hazardous by 61. subpart D. |
| items) | - Danau | | | | 5 | | |
| MSDS Information | HCRA Haz | ardous waste A | inalysis 🗀 Pr | ocess Knowledge U | Uther (Provide o | description above) | |
| CRI Approval # | | | | | , | | |
| Agent | -/lan | | | | <u> </u> | | |
| (Signature | 3) / | | • | | / M | | |
| RI Representative | (Signature) | | | | en Ma | we have | |
| ANK BOTTOMS | | | | | | | |
| ANK BOTTOMO | Feet | Inches | | | | | |
| 1st Gauge | | | BS | &W/BBLS Receive | d | BS&W | % |
| 2nd Gauge | | 1.1.1 | National States | Free Wate | er | | |
| Received | | | . | Total Receive | đ | | |
| _ | | * | | ······································ | | 213 | 363 |
| White - CRI | Form C138 | Canary - CRI Acc | counting | Pink - CRI | Plant | Gold - Transpor | |

| Bill to | | | | | | | |
|---|---|--------------------------------------|--------------------------------------|-----------------|--|---|-------------------------------------|
| .ddress | | · | | | | | |
| Company/Generate | or X7 | 7 | | | | | |
| ease Name | (((((| Moa | A UM | - ABO | Sou ff | ید کہ | |
| rucking Company | Manage | | Vehicle Number | | Driver (Print) | (1) | |
| late 7 - 2. | 4.69 | | | Time | مر | 75 | a.m. / p.m. |
| | <i>p_ = 1</i> | | Type of N | laterial | | <u>· · · · · · · · · · · · · · · · · · · </u> | |
| ☐ Fiulds | ☐ Soils | | | | | | |
|] Tank Bottoms | Other Ma | terial (List Descript | tion Below) | Receiving | Area | ->/ | |
| <u></u> | | | DESCRI | PTION | - Wyel | / Jeans | |
| | | | | | | | |
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| | | | | | | <u> </u> | |
| | | | | l <u></u> | | | |
| | *************************************** | | | | | | |
| | | | | ./ | | | |
| olume of Material | ☐ Bbis. | | / | 2 Yard // | | ☐ Gallons _ | |
| ☐ Wash Out | ☐ Call C | Out | | After Hours | | ☐ Debris Ch | narge |
| RCRA Exempt: waste. RCRA Non-Execharacteristics esta as amended. The fitems) | empt; Oil field w blished in RCRA | aste which is nor regulations, 40 CF | n-hazardous that FR 261.21-261.24 | does not exceed | the minimum star s waste as defined | ndards for wast Lin 40 CFR, par | e hazardous by t 261, subpart D. |
| ☐ MSDS Information | RCRA Ha | zardous Waste An | alysis 🔲 Proce | ess Knowledge | Other (Provide d | escription abov | e) |
| CRI Approval # | | | | | | | |
| • | | | | | | | |
| Agent (Signature | | 100/ | | | | / | |
| ∴RI Representative | 1.d.1. | N Jacques | | | Mark | | |
| - | (Signature) | | | 7 | a comment | ······································ | |
| ANK BOTTOMS | Feet | Inches | • | | | | |
| 1st Gauge | | | BS&V | //BBLS Received | | BS&W | % |
| 2nd Gauge | | | | Free Water | | | |
| Received | | 100 Mari | · | Total Received | | | · |
| | | | | , | | 21 | 3380 |
| White - CRI | Form C138 | Canary - CRł Acco | unting . | Pînk - CRI PI | ant | Gold - Trans | |

NMOCD Order R9166

| 3ill to | <u> </u> | | | | | |
|---|---------------------------------------|---|--|---------------------------------------|---|------------------------------|
| Address | | | | | | ···· |
| Company/Generator | ×TC | | | | | |
| .ease Name | | north | VILL ABO SOL | 160 | | |
| rucking Company | Kung un | 1 | hicle Number 02. | Driver (Print) | BETH | <u> </u> |
| Date 776 | 25 | ,,, | Time | 17:54 | | .m. / p.m. |
| 2 2 6 | <u> </u> | · · · · · · · · · · · · · · · · · · · | Type of Material | 16.11 | | |
| ☐ Fluids | Soils | | i y po or matorial | | | |
| ☐ Tank Bottoms | Other Mai | erial (List Description | n Below) Receivi | ند | 0 57 | |
| | | | DESCRIPTION | Car I | Ser. 1 | * |
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| - | | | | | | |
| /olume of Material | ☐ Bbls | | □ Yard/ | 72. | 🖸 Gallons | : • • • |
| ☐ Wash Out . | Call C | Put | After Hours | 3 ' | Debris Char | ge · |
| waste. RCRA Non-Exemple characteristics established as amended. The follows: | ot: Oil field wa | aste which is non-li regulations, 40 CFR | and gas exploration and produ nazardous that does not exce (261,21-261,24, or listed hazar to demonstrate the above-descr | ed the minimum star | ndards for waste h Lin 40 CFR, part 26 | nazardous t 31. subpart (|
| items) MSDS Information | RCRA Haz | zardous Waste Anal | ysis D Process Knowledge | Other (Provide d | escription above) | |
| CRI Approval# | | | , | _ 00. (000 0 | 000.1p.11011.0p.010, | |
| معتسير | 11 | | | | | |
| (Signature) | | - | | | | · |
| RI Representative _ | | | f. A | | | |
| · · · · · · | (Signature) | | 100 | | | |
| ANK BOTTOMS | | | | △ . | | • |
| | Feet | Inches | | | ·- | |
| 1st Gauge | | | BS&W/BBLS Receiv | ved | BS&W | % |
| 2nd Gauge | | | Free Wa | ater | | |
| Received | | *.* *. | Total Receiv | ved . | | ,, |
| L | · · · · · · · · · · · · · · · · · · · | <u></u> | | | 213 | 324 |
| White - CRI | orm C138 | Canary - CRI Accoun | tina Pink Ci | PI Diant | Gold - Teansport | |

THE COLOR PRINTER - #7521

| Bill to | | | ·= - ·· · · · · · · · · · · · · · · · · | | | | | |
|----------------------------|--|--------------------------------------|---|-------------------------------------|--|---------------------------------------|---|--|
| Address | · · · · · · · · · · · · · · · · · · · | | | | | | | |
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| Company/General | tor VIO | | | | | , , , , , | | |
| _ease Name | | Month | VAC. 1 | | su Ali | <u> 57.</u> | CIZ | <u>></u> |
| Trucking Company | 1 Herry cray 1 | for sam Ve | hicle Numb | er 🗺 🦢 | 31 | Driver (Print) | Smerre | } |
| Date 2 | <u> </u> | | | Time | | 7:31 | 8 | á.m. / p.m. |
| O ever | | | Type of | Material | | | | |
| ☐ Fluids ☐ Tank Bottoms | Solls Other Mater | ial // ist Descriptio | n Relowl | Rece | eivina 4 | Area | J·57 | |
| TOTAL DOCKOTS | - Cariot Winter | iai (List Descriptio | DESCR | | - TAILING A | 1160 | | |
| | | _ | DESCR | TION | ······································ | trad d | 00. / | <u></u> |
| | 7-3 | | | | | | | Marie and section of the material environment of the section of th |
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| Volume of Material | | | | 2 Yard | $\overline{2}$ | | ☐ Gallons | |
| ☑ Wash Out | ☐ Call Out | | | ☐ After Ho | urs | | Debris Char | ge |
| characteristics esta | Oil field wastes ge empt: Oil field wast ablished in RCRA reg following documenta | e which is non- julations, 40 CFF | hazardous tha R 261,21-261, | at does not ex 24, or listed ha: | ceed th | ne minimum stan swaste as defined | dards for waste I in 40 CFR, part 26 | hazardous by 61, subpart D, |
| MSDS Information | n 🔲 RCRA Hazar | dous Waste Ana | lysis 🔲 Pro | cess Knowledç | ge 🗀 | Other (Provide de | escription above) | |
| CRI Approval # _ | | | | | | | | |
| 100 | MEDI | | | | | | | |
| (Signature | e) | 2004 | ···· | | | | / / | |
| RI Representative | ! | | | | • | K M | al | |
| | (Signature) | | | | , | for the second | 35 | |
| ANK BOTTOMS | | Sec. Sec. | • | | • | | • | |
| ſ | Feet | Inches | | | | · · · · · · · · · · · · · · · · · · · | Т. | - |
| 1st Gauge | | E | BS& | W/BBLS Red | eived | | BS&W | % |
| 2nd Gauge | | • | | Free | Water | | | _ |
| Received | •, • | green and a | *** 7. ** | Total Rec | eived | LOW 17 | | |
| _ | | | | | | | - 213 | 321 |
| White - CRI | Form C138 | Canary - CRI Accour | iting | Pink | - ÇRI Pia | nt | Gold - Transport | |

| Address | | | | | | | |
|--|---|--|--|---|--|--|---|
| | | | • | | | | |
| Company/Generator | XTC | | | | 1/ | | |
| Lease Name | | Mont | h Urac_ | ARU Sa | · H. S. + | | |
| Trucking Company | macan | Huse | Vehicle Number | W 07 | Driver (Print) | Bonn | 7 |
| Date 2-26 | <u> </u> | | | Time | 8.15 | <i></i> | 2.m. / p.m. |
| | | | Type of N | laterial | | | |
| | ☐ Soils | | | | | | |
| ☐ Tank Bottoms | U Other Mate | erial (List Descri | iptior, Balow) | Receiving | Area So | | |
| | | | DESCRI | PTION | (62 F |) 0/1 | |
| | <u></u> | | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · | ······································ |
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| च्याकु | | | | | | | |
| | | | | | | ☐ Gallons | ······································ |
| Volume of Material | □ Rble | | | NY Yard | | | |
| Wash Out I hereby certify that accident | ording to the R | It ENERATOR Cl esource Conse ve described w | ERTIFICATION ST ervation and Recovate is: (Check the | appropriate classif | nd the US Enviror ication) | ☐ Debris C | harge "lon Agency's July |
| I hereby certify that according the second of the second o | Call Ou Gording to the R nation, the about I field wastes go pt: Oil field wasted in RCRA r | ENERATOR Clesource Conse ve described we generated from ste which is negulations, 40 described | ERTIFICATION ST ervation and Recoveraste is: (Check the proof oil and gas exploit ion-hazardous that CFR 261.21-261.24 | After Hours ATEMENT OF WAS very Act (RCRA) an appropriate classification and production does not exceed or listed hazardou | nd the US Environication) on operations and the minimum states us waste as define | Debris Commental Protection are not mixed and ards for was d in 40 CFR, pa | ion Agency's July with non-exempt ste hazardous by irt 261, subpart D, |
| waste. RCRA Non-Exemple characteristics established as amended. The folicitems) | Call Ou Governing to the R nation, the about I field wastes go pt: Oil field washed in RCRA rowing documen | ENERATOR Clesource Conse ve described w generated from ste which is n regulations, 40 d tation is attach | ERTIFICATION ST ervation and Recoveraste is: (Check the coil and gas explorated and gas e | After Hours ATEMENT OF WAS ery Act (RCRA) an appropriate classifi- ation and production does not exceed to a listed hazardouthe above-describe | nd the US Environication) on operations and the minimum sta us waste as define d waste is non-ha | Debris Commental Protect I are not mixed andards for was d in 40 CFR, pagardous. (Check | inarge lon Agency's July with non-exempt ste hazardous by irt 261, subpart D, k the appropriate |
| I hereby certify that accomposition of the terminal of the ter | Call Ou Governing to the R nation, the about I field wastes go pt: Oil field washed in RCRA rowing documen | ENERATOR Clesource Conse ve described w generated from ste which is n regulations, 40 d tation is attach | ERTIFICATION ST ervation and Recoveraste is: (Check the coil and gas explorated and gas e | After Hours ATEMENT OF WAS ery Act (RCRA) an appropriate classifi- ation and production does not exceed to a listed hazardouthe above-describe | nd the US Environication) on operations and the minimum sta us waste as define d waste is non-ha | Debris Commental Protect I are not mixed andards for was d in 40 CFR, pagardous. (Check | inarge lon Agency's July with non-exempt ste hazardous by irt 261, subpart D, k the appropriate |
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Pink - CRI Plant

White - CRI

Canary - CRI Accounting

Gold - Transporter
THE COLOR PRINTER - #7521

District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico ED Minerals and Natural Resources

Form C-141

Revised October 10, 2003

side of form

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back

1625 N. French Dr., Froncis, Nivi 60240
District II
1301 W. Grand Avenue, Artesia, NM School IV EI
1000 Rio Brazos Road, Azteo, NM 87414 AR 1 3 2009
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
HOBBSOLD

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

| | | | Kele | ase Notific | ation | and Co | rrective Ac | ction | | | |
|---------------|---------------|---------------------|-------------|---|-------------|----------------|---------------------------------------|-------------|------------------|---|---------------|
| | | | | | (| OPERAT | OR | | Initia | Report Fina | ıl Report |
| Name of Co | mpany: X | TO Energy, | Inc. | | | | y Haykus/Produ | etion Su | | | |
| Address: 20 | | ine St., Ste. I | 800, Mid | land, TX 7970 | | | lo.: (432) 682-8 | | | | |
| Facility Nan | | | | | | acility Typ | | _ | | | |
| North Vacu | um Abo L | ease - South | Water St | ation | P | roduced W | ater Injection S | tation | ················ | | |
| Surface Ow | ner: State | of New Mer | kiço | Mineral C | wner | | | | Lease N | lo. | |
| | | | | LOCA | TYON | OF DEL | TEL COR | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | OF REI | Feet from the | East/We | est Line | County: Lea | |
| G | 26 | 178 | 34E | 1 con Homi alo | 110100 | Muut Dino | roct nom the | 12650 11 | ,3t Daile | - County: 200 | j |
| | <u> </u> | <u> </u> | <u> </u> | Ì <u> </u> | <u> </u> | ····· | | | | | |
| | = | | Lat | itude: N 32° 48 | 24.9" | Longitud | e: W 103° 31' | 43.5" | | | |
| | | | - | | | • | | | | | |
| | 0 1 | - C'' | | NA' | CURE | OF REL | | | | N | - |
| Type of Reic | ase: Crude | Oil | mead Schu | duling Order Clo | cura) | | Release: Unknow Your of Occurrence | | | Recovered: None Hour of Discovery: | |
| OOUTOO OF 1st | nomo. x CII | nement it (vi | Breed Deliv | Adding Order Cit | isme) | Unknown | tour or occurrent | | | 09/3:00 pm CST | |
| Was Immedi | ate Notice | | _ | _ | | If YES, To | Whom? | | ···· | | |
| | | | Yes | No 🔀 Not R | equired | | | | | | |
| By Whom? | | | | | | Date and I | | | | | |
| Was a Water | course Rea | | Yes 2 | Z No | | If YES, V | olume Impacting | the Water | rcourse. | | |
| | | | | · • | | | | | | | |
| If a Waterco | urse was In | apacted, Desc | ribe Fully | .* | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | ed during closure in acc | |
| with a plan a | ipproved by | OCD Enviro | nmental E | Bureau personnel i y, Inc.). Propose | in Santa I | re on Februa | ry 4, 2009. Rem | oved cond | crete linir | ng pit for disposal at OC | D |
| approved on | sposm racii | ity. (Controlle | a Veccoaci | y, inc.j. Propose | to excava | ne contamin | ated son for dispo | USAL BL SAL | ne dispos | at tachity. | |
| | | | | | | | | | | | <u>.</u> |
| | | | | | | | | | | wo (2) areas showing st | |
| near pit cen | iel aug zoni | h of pit center | r. Contam | ination appears li | mited to | immediate a | rea of soil stainin | g and Will | r pe exca | vated to delineate exten | 101 |
| 1010-201 | | | | | | | | | | | • |
| | 40.4 | | | | | | 1 | | | 27.60 | |
| | | | | | | | | | | ursuant to NMOCD rule | |
| | | | | | | | | | | eleases which may end elieve the operator of l | |
| | | | | | | | | | | iter, surface water, hum | |
| or the envir | onment, In | addition, Niv | 10CD acc | eptance of a C-14 | I report o | does not relic | eve the operator o | of respons | ibility fo | r compliance with any o | other |
| federal, stat | c, or local l | aws and/or re | gulations. | | | | ~~~ ~~ | TOTAL | · | 1. DILITATO) I | |
| 1 | | | | $\overline{}$ | 1 | | OIL CO | NSEK | ATTO | <u>N DIVISION</u> | |
| Signature: | | THE PARTY | عبر و | | | | • | C | -) Oh | -చంకా. | • |
| Printed Nar | ue: Mark I | arson, Larson | ı & Assoc | iates, Inc. (Consu | itant) | Approved b | y District Super | risor: | 1 | ~~~cc@ | |
| Title: Sr. P | roject Man | ager / Preside | nt | *************************************** | | Approval I | Date: 3.13.0 | 9 | Expirati | on Date: | |
| Remoil 444 | lrece made | @laenvironm | ental com | | } | Conditions | of Approval: | | | | |
| B-man Auc | nws. marki | ectacity it Othilli | entan-cont | | | Conditions | or Approvar: | | | Attached | |
| Date: 03/02 | | | |) 687-0901 | | | | | | 1R7#04.3.2 | -(رح |
| * Attach Ad | ditional Sl | cets If Nece | ssary | - | | | | | | | |

Form C-141 Revised October 10, 2003

side of form

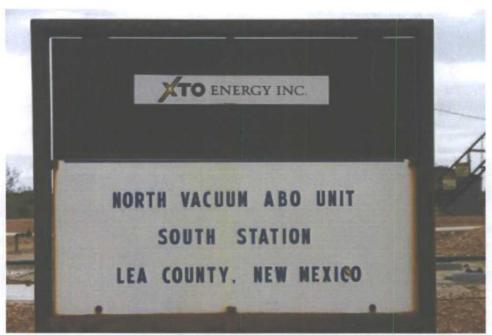
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back

District I
1625 N. French Dr., Hobbs, NM 88240 PC FIVE District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 MAK 13 (III)
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87400 BBSOUL

State of New Mexico
Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Release Notification and Corrective Action

| | | | | | _ (| OPERAT | OR | | ☐ Initia | l Report | × | Final Report |
|----------------------------|---|------------------------------|------------------------|---|--------------------------|---|---------------------------------------|-----------------------|-----------------------------|-------------------------------|--------------|-------------------------|
| Name of Co | | | | | | Contact: Gu | y Haykus/Produ | action S | Superinten | dent | | |
| Address: 20 | | ine St., Ste. | 800, Mid | land, TX 7970 | | | lo.: (432) 682-8 | 3873 | | | | |
| Facility Nar North Vacu | | eace - South | Water Ct | etion | | acility Typ | e: ater Injection St | tation | | | | |
| | | | | | | roduced w | ater injection Si | lation | | | | |
| Surface Ow | ner: State | of New Me | cico | Mineral C |)wner | | · · · · · · · · · · · · · · · · · · · | | Lease N | lo. | | |
| | <u>, </u> | | | LOCA | ATION | OF REI | LEASE | | | | | |
| Unit Letter G | Section 26 | Township 17S | Range 34E | Feet from the | North/S | South Line | Feet from the | East/V | Vest Line | County: I | æa | |
| 1 | | | Lat | itude: N 32° 48 | ' 24.9" | Longitud | e: W 103° 31' | 43.5" | | | | , |
| | | | | NAT | TURE | OF REL | EASE | | | | | |
| Type of Rele | | | | | | | Release: Unknov | | | Recovered: | | |
| Source of Re | lease: Perm | nanent Pit (Ag | reed Sche | duling Order Clo | sure) | Date and I Unknown | Iour of Occurrence | e: | | Hour of Dis 09/3:00 pm | | : |
| Was Immedia | ate Notice (| | | | | If YES, To | Whom? | | 02.21720 | <u> </u> | | |
| | | | Yes [|] No 🗵 Not R | equired | | | | | | | |
| By Whom? | | 1 10 | | | | Date and I | | | | | | |
| Was a Water | course Reac | | Yes 🔯 |] No | | If YES, Vo | olume Impacting | the Wat | ercourse. | | | |
| If a Watercou | rse was Im | pacted, Descr | ibe Fully. | * | | <u> </u> | | | | | | |
| | | | | | | | | | | | | ļ |
| | | | | | | | | | | | | |
| Describe Cau | se of Probl | em and Reme | dial Actio | n Taken.* Relea | se from b | ottom of cor | crete-lined perma | anent pi | t discovere | d during clo | sure in | accordance |
| with a plan 8] | oproved by oosal facilit | OCD Enviror v (Controlled | mental B Recovery | ureau personnel i . Inc.). Propose i | n Santa P to excava | e on Februar te contamina | ry 4, 2009. Remo | oved cor sal at sa | rerete linin me disposi | g pit for dis al facility. | posal at | OCD |
| | | , (- , | | , | | ••••••••••••••••••••••••••••••••••••••• | wa coxi zor alepo | | - | | | |
| Describe Are | a Affected | and Cleanup | Action Tal | ken.* Contamina | tion disc | overed in dis | creet soil sample: | s collec | ted from tv | vo (2) areas | showing | g staining |
| near pit cente | r and south | of pit center. | Contami | nation appears lir | nited to i | mmediate an | ea of soil staining | and wi | ll be excav | ated to deli | neate ex | tent of |
| release. | | | | | | | | | | | | |
| Y L L meli | frehat the | in Commondian a | | | 1 | | | 1 | | | MOCD | aulas and |
| regulations al | ly mat me i l'operators | are required t | o report a | e is true and com nd/or file certain | piete to ti release n | ne best of my otifications a | knowledge and and perform corre | undersu etive ac | and that pu tions for re | rsuant to Ni eleases which | h may e | ndanger |
| public health | or the envi | ronment. The | acceptan | cc of a C-141 rep | ort by the | NMOCD n | arked as "Final F | Report" | does not re | clieve the op | perator o | of liability |
| or the environ | perations h iment. In a | iave tailed to i | adequately CD accer | y investigate and ntance of a C-141 | remediate | e contaminat | ion that pose a the | rest to p | ground wat sibility for | er, surtace v | water, n | uman neaith ny other |
| federal, state, | | | | | Toport | bes not rene | ve the operator of | 1copon | | | | |
| -= | | <u></u> | > | | | | OIL CON | | | | <u>iON</u> | |
| Signature: | | | | | | | _ | | - 0 hm | 300 | | |
| - | : Mark Laı | rson, Larson | > & Associa | ites, Inc. (Consult | ant) | Approved by | District Supervi | 8 <mark>0</mark> 7NiN | ENTAL | ENGINE | ER | |
| Title: Sr. Pro | ject Manag | er / President | | | | Approval Da | ite: 315.09 | | Expiratio | n Date: | | |
| E-mail Addre | ss: <u>mark@</u> l | laenvironmen | tal.com | • | | Conditions of | of Approval: | | | Attach | led 🗍 | |
| Date: 03/02/2 | | | e: (432) (| 687-0901 | | | | | | TEA | % <u>3</u> . | 2115 |
| Attach Addit | ional Shee | ets If Necess | ary | | | | | | | | | |



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

Invoice

Controlled Recovery Inc.

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

MAR 1 6 2000

BillTc

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

Terms
Due Date
PO #
Generator

Memo Lease Well Rig

Company Man

3/13/2009 64004

Net 30 4/12/2009

OTX

NVAU SOUTHWEST

 Contaminated Soil
 20
 18.00
 360.00
 214937
 3/9/2009
 Rocker Three

 Contaminated Soil
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 3/9/2009
 HUNGRY HORSE

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 Contaminated Soil
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 Rocker Three

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 HUNGRY HORSE

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 Contaminated Soil
 12
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 3/9/2009
 HUNGRY HORSE

 Contaminated

Subtotal Tax (NM Sales Tax 5.375%) 3,024,00 162.54 \$3,186.54

TOPTY

| Bill to | | | | | · | | · |
|-----------------------------------|---------------------|------------------|----------------------|--------------------|--|----------------------------|------------------------------|
| Address | | · · · · · · | | | | | |
| | V + / | | | | | | |
| Company/Generat | | ··· | | · | | | |
| Lease Name | NVAV | | TH NEST | ····· | | | |
| Trucking Company | ROCKEX | 3 | Vehicle Numbe | | Driver (Print) | SAVIER | |
| Date 3 - 4 | 9-09 | | | Time /. , | 15 | | a.m. / p.frj. |
| D cuid. | Soils | | Type of ! | Material | | | |
| ☐ Fluids ☐ Tank Bottoms | Other Mai | erial // lst Des | criation Relaw) | Receiv | ing Aréa | 50/57 | |
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| | 7 | | | | 2.5 | | |
| Volume of Material ☐ Wash Out | ☐ Bbls. ☐ Call O | ,, | | Yard | 0 | ☐ Gallons _ ☐ Debris Cl | |
| characteristics esta | blished in RCRA | regulations, 40 | CFR 261.21-261.2 | 4, or listed hazar | ed the minimum sta dous waste as define ibed waste is non-ha | d in 40 CFR, par | t 261, subpart |
| items) | | | | | | | |
| | RCRA Haz | ardous Waste | Analysis 🚨 Proc | ess Knowledge | Other (Provide o | description above | e) |
| CRI Approval # | 1/. / | | | • | | | |
| Agent | ورسک س | <u>/</u> | | | | | ·· |
| (Signature) CRI Representative | | MA | | | | | |
| ANK BÖTTOMS | | - | | | | • | |
| ſ | Feet | inches | | | | | |
| 1st Gauge | · | | BS&V | V/BBLS Receiv | /ed | BS&W | % |
| 2nd Gauge | | | | Free Wa | ter | | |
| Received | | | | Total Receiv | /ed | | · · · |
| | Enum (2122 | | | ·× | ξ, . | 21 | 4937 |
| White - CRI | Form C138 | Canary - CRI | Accounting | Pink - Ci | RI Plani | Gold - Trans | porter DLOR PRINTER - #75 |

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/Generato | r 4 T 1 | | | | | | |
| _ease Name | MANAU | CAUI | HWEST | | | | |
| Trucking Company | HUNGRY | HONSE | Vehicle Numb | er Ø1 | Driver (Prin | nt) * * * * * * * * * * * * * * * * * * * | |
| Date 7-9- | | 174736 | 1 1011100 1101110 | Time / | <u> </u> | 1 6129 | a.m. / p.m |
| Jake 3 92 | 09 | ,,,,, <u>, , , , , , , , , , , , , , , , ,</u> | Type of | Material | 5 | | <u> </u> |
|) Fluids | ⊠ Soils | | Type O | material | į. | | |
| Tank Bottoms | Other Ma | terial (List Des | scription Below) | Receiving | Area | 5067 | |
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White - CRI

Canary - CRI Accounting

Pink - CRI Plant

Gold - Transporter

THE COLOR PRINTER - #7521

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CONTROLLED RECOVERY, C.
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| Bill to | | | | | | |
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White - CRI

Canary - CRI Accounting

Pink - CRI Plant

Gold - Transporter THE COLOR PRINTER - #7521

| Bill to | | | | | | | |
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Form C138 White - CRI

Canary - CRI Accounting

Pink - CRI Plant ,

Gold - Transporter THE COLOR PRINTER - #7521

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| Bill to | | | | | | | |
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Pink - CRI Plant

Gold - Transporter

· THE COLOR PRINTER · #7521

Form C138

Canary - CRI Accounting

White - CRI

CONTROLLED RECOVERY "NC.

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NMOCD Order R9166

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| Address | | | | ************************************** | | |
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Pink - CRI Plant

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



I am using the Free version of <u>SPAMfighter</u>.

We are a community of 6 million users fighting spam.

SPAMfighter has removed 3828 of my spam emails to date.

The Professional version does not have this message.

This inbound email has been scanned by the MessageLabs Email Security System.



ALCCIVED 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 1
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

| | | | | | | OPERA | ГOR | | 🔀 Initia | l Report |
|--|--|--|---|---|------------------------------------|---|---|---|---|--|
| | | | | | | Contact: Gi | ıy Haykus/Prod | uction S | Superinten | dent |
| | | ine St., Ste. 8 | 300, Mid | land, TX 7970 | | | No.: (432) 682-8 | 3873 | | |
| | | | | | | acility Typ | | | | |
| North Vacu | um Abo L | ease - South | Water St | ation | F | Produced W | ater Injection St | tation | | |
| Surface Own | ner: State | of New Mex | ico | Mineral O | wner | | | | Lease N | 0. |
| | cility Name: orth Vacuum Abo Lease - South Water Station reface Owner: State of New Mexico LO it Letter Section Township Range 34E Feet from the growth of t | | | LOCA | TION | OF REI | LEASE | | | |
| Unit Letter G | | | | Feet from the | North/S | South Line | Feet from the | East/W | est Line | County: Lea |
| | | | Lati | | | Longitud OF REL | | 43.5" | | |
| Type of Relea | ase: Crude | Oil | | TIME. | OICE | | Release: Unknow | л Т | Volume R | ecovered: None |
| | | | reed Sche | duling Order Clos | ure) | | lour of Occurrence | | | Hour of Discovery: |
| | ource of Release: Permanent Pit (Agreed Scheduling Order Clease Immediate Notice Given? | | | | | Unknown | | | 02/27/200 | 9/3:00 pm CST |
| Was Immedia | ate Notice (| | Yes [| No 🔀 Not Re | quired | If YES, To | Whom? | | | |
| By Whom? | | | | | | Date and H | | | | |
| Was a Water | course Reac | | Yes 🔀 | No | | If YES, Vo | lume Impacting t | he Wate | rcourse. | |
| Describe Cau | se of Probl | em and Remed | lial Actio | n Taken.* Release | | | | | | |
| approved disp | posal facilit | y (Controlled | Recovery | , Inc.). Propose to | excavat | te contamina | ted soil for dispos | al at san | ne disposal | facility. |
| near pit cente release. | er and south | of pit center. | Contamii | nation appears lim | ited to in | nmediate are | a of soil staining | and will | be excavat | ed to delineate extent of |
| regulations al public health should their of or the environ | If operators or the environment operations homent. In a | are required to ronment. The have failed to a addition, NMO | report as acceptant dequately CD accep | nd/or file certain rece of a C-141 reporting and re | clease no rt by the emediate | otifications as NMOCD m contaminati | nd perform correct arked as "Final Roon that pose a throether operator of the contract of the correct of the co | tive acti eport" de eat to gr responsi | ons for rele oes not reli ound water bility for co | eases which may endanger eve the operator of liability , surface water, human health ompliance with any other |
| <u>ـ</u> ـــــــــــــــــــــــــــــــــــ | | | | _ | | | OIL CONS | <u>SERV</u> | <u>ATION</u> | <u>DIVISION</u> |
| Signature: | | - Nach | | , | | | | | | |
| Printed Name | e: Mark La | rson, Larson & | Associa | tes, Inc. (Consulta | nt) | Approved by | District Supervise | or: | | |
| Title: Sr. Pro | ject Manag | er / President | | | | Approval Dat | te: | 1 | Expiration I | Date: |
| E-mail Addre | ess: mark@ | laenvironment | al.com | | (| Conditions of | f Approval: | | | Attached |
| Date: 03/02/2 | 2009 | Phone | e: (432) (| 87-0901 | 1 | | | | | |

^{*} 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

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

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 326072



Larson & Associates, Midland, TX

Vacuum Water Station South

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample 1d |
|-----------|--------|-----------------|--------------|---------------|
| 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 |



Chloride

Benzene

Toluene

Ethylbenzene

m.p-Xvlenes

Certificate of Analysis Summary 326072

Larson & Associates, Midland, TX

Project Name: Vacuum Water Station South

nelad:

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

ND 0.0021

ND 0.0011

ND 0.0021

| | Lab Id: | 326072-0 | 01 | 326072-0 | 02 | 326072-0 | 003 | 326072-0 | 104 | 326072-0 | 05 | 326072-0 |)06 |
|---------------------|------------|-----------------|--------|-------------------------------|--------|-----------|-----------------|-----------|-----------------|-------------|-----------------|-------------|--------|
| Analysis Paguastad | Fleid Id: | BC-1 | | SC-1 | | EC-1 | | WC-I | | NC-1 | | B-7 | l |
| Analysis Requested | Depth: | | | | | | 1 | | | | | | l |
| | Matrix: | SOIL | | SOIL | } | SOIL | | SOIL | | SOIL | - | SOIL | l |
| | Sampled: | Feb-26-09 | 13:55 | Feb-26-09 | 11:00 | Feb-26-09 | 11:30 | Feb-26-09 | 11:00 | Feb-26-09 1 | 13:45 | Feb-26-09 | 14:00 |
| Anions by EPA 300 | Extracted: | | | | | | | | | | | | |
| imons by Divisor | Analyzed: | Feb-27-09 09:27 | | Feb-27-09 09:27 Feb-27-09 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 |
| ie | | 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 0 | 00:80 | Feb-27-09 (| 08:00 |
| DILIT BY LITT OVAIL | Analyzed: | Feb-27-09 | 10:18 | Feb-27-09 1 | 10:39 | Feb-27-09 | 10:59 | Feb-27-09 | 11:20 | Feb-27-09 1 | 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 |
| ne | | ND | 0.0012 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | ND | 0,0013 |

ND 0.0022

ND 0.0011

ND 0.0022

| I . | | | | | | | | | | | **** | |
|-------------------------|---|---|---|--|--|---|--|--|--|---|---|---|
| 1 | ND | 0.0012 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | ND | 0.0013 |
| | ND | 0.0012 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | 0.0037 | 0.0013 |
| | ND | 0.0012 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | ND | 0.0011 | 0.0054 | 0,0013 |
| 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 | 2:02 | Feb-27-09 | 12:02 |
| Units/RL: | % | RL | % | RL | % | RL | % | RL, | % | RL | % | RL |
| | 14.37 | 1.00 | 7.89 | 1.00 | 7.40 | 1.00 | 6.76 | 1.00 | 12.24 | 1.00 | 20.39 | 1.00 |
| Extracted: Analyzed: | Feb-27-09 | 08:47 | Feb-27-09 (| 18:47 | 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 | RI, | mg/kg | RL. | mg/kg | RL |
| | 454 | 11.7 | 43.8 | 10.9 | 283 | 10.8 | 460 | 10.7 | 873 | 11.4 | 19600 | 62.8 |
| | Analyzed: Units/RL: Extracted: Analyzed: | ND ND ND Extracted: Analyzed: Feb-27-09 Units/RL: % 14.37 Extracted: Analyzed: Feb-27-09 Units/RL: mg/kg | ND 0.0012 ND 0.0012 ND 0.0012 | ND 0.0012 ND ND 0.0012 ND ND 0.0012 ND ND ND ND ND ND ND N | ND 0.0012 ND 0.0011 ND 0.0012 ND 0.0011 ND 0.0012 ND 0.0011 ND 0.0012 ND 0.0011 Extracted: | ND 0.0012 ND 0.0011 ND ND 0.0011 ND ND 0.0012 ND 0.0011 ND ND 0.0011 ND ND ND 0.0011 ND ND ND ND ND ND ND | ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0012 ND 0.0011 ND 0.0011 Extracted: | ND 0.0012 ND 0.0011 ND 0.0011 ND Extracted: | ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0011 ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0011 ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0011 Extracted: | ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0011 ND ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0011 ND ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0011 ND Extracted: | ND 0.0012 ND 0.0011 ND 0.0011 | ND 0.0012 ND 0.0011 ND 0.0011 |

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ND 0.0012

ND 0.0023

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Brent Barron
Odessa Laboratory Director

ND 0.0023

ND 0.0011

ND 0.0023

ND

0.0017

0.0037

0.0025

0.0013

0.0025



Certificate of Analysis Summary 326072

Larson & Associates, Midland, TX

Project Name: Vacuum Water Station South

inelaci:

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 |
|---------|----------|------------------|
| | | |

| | | | | I I UJECI IVIA | nager. | Brent Barron, II | |
|-----------------------------------|------------|-----------------|-------|----------------|--------|------------------|----------|
| | Lab Id: | 326072-007 | | | | | |
| Analysis Requested | Field Id: | B-6 | ĺ | ĺ | ĺ | | |
| Analysis Requested | 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 | | | | <u>_</u> | |
| Chloride | | 120 5.20 | | | | | <u> </u> |
| BTEX by EPA 8021B | Extracted: | Feb-27-09 08:00 | | | | | |
| DIER by Entrovers | Analyzed: | Feb-27-09 12:21 | i | | Ì | | |
| | Units/RL: | mg/kg RL | | | | | <u> </u> |
| 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 | | | ĺ | | |
| | 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 | | | | - | |

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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.

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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 | SURROGATE RECOVERY STUDY | | | | | | | |
|----------------------|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| Analytes | . , | | [D] | | | | | |
| 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 | 9:17 SU | SURROGATE RECOVERY STUDY | | | | | | |
|---|------------------------|--------------------------|----------------|-------------------------|-------|--|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| Analytes | | | [D] | | | | | |
| 1,4-Diffuorobenzene | 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 | SU | RROGATE R | ECOVERY : | STUDY | |
|--|------------------------|-----------------------|----------------|-------------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| Analytes | | | [D] | | i |
| 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 | SU | RROGATE R | RECOVERY | STUDY | |
|--|------------------------|-----------------------|----------------|-------------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| Analytes | 1 | ,-, | [D] | | |
| 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:

Matrix: Soil

| Units: mg/kg Date Analyzed: 02/27/09 10:39 | SURROGATE RECOVERY STUDY | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | , , | , , | [D] | | | | |
| 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

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders: 326072,

Project ID:

Lab Batch #: 751059

Sample: 326072-003 / SMP

Matrix: Soil Batch:

| Units: mg/kg Date Analyzed: 02/27/09 10:59 | SURROGATE RECOVERY STUDY | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | "" | | [D] | | | | |
| 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:

Matrix: Soil

| Units: mg/kg Date Analyzed: 02/27/09 11:20 | SURROGATE RECOVERY STUDY | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | , ,, | | [D] | | | | |
| 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 | SURROGATE RECOVERY STUDY | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | | | [D] | | | | |
| 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 | SURROGATE RECOVERY STUDY | | | | | | |
|----------------------|-------------------------------|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| ВТЕ | K by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| | Analytes | | | {D} | | | | |
| 1,4-Diffuorobenzene | | 0.0326 | 0.0300 | 109 | 80-120 | : | | |
| 4-Bromofluorobenzene | | 0.0236 | 0.0300 | 79 | 80-120 | ** | | |

Lab Batch #: 751059

Sample: 326072-007 / SMP

Batch:

Matrix: Soil

| Units: mg/kg | Date Analyzed: 02/27/09 12:21 | SURROGATE RECOVERY STUDY | | | | | | |
|----------------------|-------------------------------|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTE | X by EPA 8021B | Amount Found A | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| | Analytes | | | [D] | | | | |
| 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

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Vacuum Water Station South

Work Orders: 326072,

Lab Batch #: 751059

Sample: 326072-002 S / MS

Project ID:

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 02/27/09 12:42 SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B Recovery Found Amount Limits Flags %R %R [A][B] [D]**Analytes** 1,4-Difluorobenzene 0.0283 94 0.0300 80-120 4-Bromofluorobenzene 0.0271 90 80-120 0.0300

Lab Batch #: 751059

Sample: 326072-002 SD / MSD

Ratch: 1

Matrix: Soil

| Units: mg/kg | Date Analyzed: 02/27/09 13:02 | SURROGATE RECOVERY STUDY | | | | | | |
|-----------------------------|-------------------------------|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B Analytes | | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | |
| 1,4-Difluorobenzene | 0.0281 | 0.0300 | 94 | 80-120 | <u></u> . | | | |
| -Bromofluorobenzene | | 0,0266 | 0.0300 | 89 | 80-120 | | | |

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



Blank Spike Recovery



Project Name: Vacuum Water Station South

Work Order #: 326072

Project ID:

Lab Batch #: 751054

054 Sample: 751054-1-BKS

Matrix: Solid

Date Analyzed: 02/27/2009

Date Prepared: 02/27/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #:

1 RI ANK /RI ANK SPIKE DECOVEDY STUDY

| reporting onto. mg/kg | Daten #: 1 | DLAIN DLAIN SFIRE RECOVERT STUDT | | | | | |
|-----------------------|-----------------|----------------------------------|----------------|----------------|-------------------|-------|--|
| Anions by EPA 300 | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags | |
| Analytes | [A] | [B] | Result [C] | %R [D] | %R | | |
| 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

Analyst: ASA

Date Prepared: 02/27/2009

Project ID:

Date Analyzed: 02/27/2009

Batch #: 1

Matrix: Solid

Units: mg/kg

BTEX by EPA 8021B

Lab Batch ID: 751059

Analytes
Benzene
Toluene
Ethylbenzene
m,p-Xylenes

o-Xylene

| BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
|---|-----------------------|---------------------------------|-----------------------------|-----------------------|---|-------------------------------|----------|-------------------------|---------------------------|------|--|
| Biank 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 | |
| ND | 0.1000 | 0.1025 | 103 | 0.1 | 0.1038 | 104 | 1 | 70-130 | 35 | | |
| ND | 0.1000 | 0.1030 | 103 | 0.1 | 0.1045 | 105 | 1 | 70-130 | 35 | | |
| ND | 0.1000 | 0.1010 | 101 | 0.1 | 0.1027 | 103 | 2 | 71-129 | 35 | | |
| ND | 0.2000 | 0.2112 | 106 | 0.2 | 0.2145 | 107 | 2 | 70-135 | 35 | | |

0.1050

Analyst: ASA

Date Prepared: 02/27/2009

0.1030

103

0.1

Date Analyzed: 02/27/2009

105

Lab Batch ID: 751012

Sample: 751012-1-BKS

ND

Sample: 525549-1-BKS

Batch #: 1

0.1000

Matrix: Solid

71-133

35

| Units: mg/kg | BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | | | | |
|-----------------------------------|--|----------------|--------------------------|----------------------|----------------|-----------------------------|------------------------|----------|-------------------------|---------------------------|------|--|--|--|--|
| TPH by EPA 418.1 | Blank Sample Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Spike Added | Blank Spike Duplicate | Blk. Spk Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag | | | | |
| Analytes | | {B] | {C] | [D] | [E] | Result [F] | {G} | | | l | L ! | | | | |
| 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

Project ID:

Date Prepared:

02/27/2009

Analyst: LATCOR

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | MATRIX / MATRIX SPIKE RECOVERY STUDY | | | | | | | |
|---------------------------------------|--------------------------------------|----------------------|--------------------------------|-----------|-------------------------|------|--|--|
| Inorganic Anions by EPA 300 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] = $100^{\circ}(C-A)/B$ Relative Percent Difference [E] = $200^{\circ}(C-A)/(C+B)$ 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 Lab Batch ID: 751059

QC- Sample ID: 326072-002 S

Batch #:

Matrix: Soil

Date Analyzed: 02/27/2009

Project ID:

Reporting Units: mg/kg

Date Prepared: 02/27/2009

Analyst: ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| | ţ , | | | | | | | | | | |
|-----------------------------|-----------------------------------|-----------------------|--------------------------------|-------------------------------|-----------------------|--|-----------------------------|----------|-------------------------|---------------------------|------|
| BTEX by EPA 8021B Analytes | 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 | Х |
| 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 | х |

Lab Batch ID: 751012

Date Analyzed: 02/27/2009

QC- Sample ID: 326072-001 S

Batch #:

Matrix: Soil

ASA

Date Prepared: 02/27/2009 Analyst:

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



Sample Duplicate Recovery



Project Name: Vacuum Water Station South

Work Order #: 326072

Lab Batch #: 751054

Date Analyzed: 02/27/2009

Batch #:

Project ID:

02/27/2009 Date Prepared:

Analyst: LATCOR Matrix: Soil

QC- Sample ID: 325914-001 D

SAMPLE / SAMPLE DUPLICATE RECOVERY

| Reporting Units: mg/kg | SAMPLE | SAMPLE/SAMPLE DUPLICATE RECOVERY | | | | | | | | | | |
|------------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|--|--|--|--|--|--|--|
| Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag | | | | | | | |
| Analyte | | 1-1 | | |] . | | | | | | | |
| 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 #:

Matrix: Soil

Reporting Units: %

SAMPLE/SAMPLE DUPLICATE RECOVERY

| reporting onto: 70 | SAME DE / | SAME DE / SARVA DE DOI DICATE RECOVERT | | | | | | | | | | | | |
|--------------------|--------------------------------|--|-----|---------------------------|------|--|--|--|--|--|--|--|--|--|
| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag | | | | | | | | | |
| Analyte | 1 1 | [B] | | | | | | | | | | | | |
| Percent Moisture | 14.4 | 16,0 | 11 | 20 | | | | | | | | | | |

| · · · · · · · · · · · · · · · · · · · | | | | _ | _ | | | i | | , |
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| CLIENT:A | 250 | <u>ر</u> | | 3 | A. | ، کک | بعد | A | .7 | Œ | ک | _ | | _ | | | ΠE: . | | | | | | | | | | | | | | | | | | |
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| CLIENT: AMADDRESS. PHONE: | | | _ | F | AX | | | | | | | | | _ | ı | PO | #: | | | | | | | ' | | WO | RK | OR: | DEF | ₹. | | | | | |
| DATA REPORTED TO ADDITIONAL REPOR | D:_// | ES TO | H.E | ZZ | <u> </u> | GA | LEC | 1 | <u></u> | | | | | _ | | CLU | ENT | PRO | DCA | TO T | N () : | R N | AM | E | | | — A1 | <u>с</u> о | J. LLE | СТС | OR: | R | B | 260 | KS |
| Authorize 5% surcharge for TRRP report? | S-SC W-W | XL ATER | , F | PEPAINT L=SLU)T=OTI | DGE | | | | PR | ESE | Ή | ATIC | ж | | | | | ー イ | | | 7 | 7 | | | | | // //s | 1 | | | | | | | // |
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| B-7 | 4 | | 7 | 2:50 | | ļ | | J | - | | 4 | ┰ | 4 | # | # | 4 | 4 | + | Ш | -{ | | | 4 | - | + | ╄ | ╄ | ⊢ | Ц | Ļ | Н | | 14 A | 0_ | |
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| RELINQUISHED BY: (S | ignature) ignature) | 2 | 2_ | 2 | ATE/ | ME 9 | RE -2 GE | CEN | ÆΩ | BY: -h-k BY: | (Sig | natu o 2 | re) | ر ساد ای ما | 9 | 73 | H | RUS | K HE | (CA | 11 F | 7AS | Ţ | REC | EN | ATC ING | TEN | Æ; | 5 | <u>5'</u> | _ | THER | | | |
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| | - 4 | CHL | DIS | POSAL | Ø \$5. | 00 each | - (| J R | 90LHT | | | _ | | | _ | | ⊥ | VIH. | ER . | ٠,' _ | | | 1 | ЭΗ | AND | DE | LIVE | RΕ | D. | | | <u>·</u> | <u></u> | | |

Environmental Lab of Texas

| | Variance/ Corrective Action Re | port- Sampl | e Log-In | | |
|---------------|---|---------------|----------|--------------------------|--|
| Client: | Larson + Associates | | | | |
| Date/ Time: | 02.26.09 @ 1737 | | | | - |
| Lab ID#: | 326072 | | | | |
| Initials: | JMF | | | | |
| | Sample Receipt | Checklist | | ć | Client Initials |
| #1 Tempera | ature of container/ cooter? | (Yes | No | 5. \$ °C | |
| | container in good condition? | (Yes-) | No | | |
| | Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| | Seals intact on sample bottles/ container? | Yes | No | (Not Present) | |
| | Custody present? | (Yes) | No | | |
| | instructions complete of Chain of Custody? | (Yes) | No | | - |
| | Custody signed when relinquished/ received? | (Yes) | No | | |
| | Custody agrees with sample label(s)? | ('Yes) | No | ID written on Cont / Lid | |
| | er label(s) legible and intact? | (Yes) | No 1 | Not Applicable | |
| | matrix/ properties agree with Chain of Custody? | Yes | No | //oc/Applicable | |
| | ers supplied by ELOT? | C-Yes > | No | | |
| | es in proper container/ bottle? | Yes | No | See Below | |
| | es properly preserved? | (FYes | No | See Below | |
| | bottles intact? | THES > | No | See Below | |
| | vations documented on Chain of Custody? | Yes | No | | |
| | ners documented on Chain of Custody? | /Yes | No | | |
| | ent sample amount for indicated test(s)? | Yes | | | |
| | ples received within sufficient hold time? | 103 | No | See Below | |
| | ············ | (Ves) | No | See Below | |
| | ntract of sample(s)? | Yes ~ | No | Not Applicables | |
| #20 . VOC s | amples have zero headspace? | (Yes_ | ∠ No | Not Applicable | 1 |
| | Variance Docu | mentation | | - | |
| Contact: | Contacted by: | | | Date/ Time; | |
| | | - | • | | |
| Regarding: | | | | | |
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| Corrective A | ation Taken | | | • | : |
| Collective | CUON TERRIT | | | | ļ |
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| | | | | | |
| Check all the | | | | | |
| | Client understands and wou | | | | |
| | Cooling process had begun | shortly after | sampling | event | |