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Below-Grade Tank Closure Final Report

XTO Energy, Inc. 1RP-10-1-2378 Eunice Monument South Unit – Satellite 8 Unit I (NE/4, SE/4), Section 7, T21S, R36E Lea County, NM

Project No. 8-0148

Prepared by:

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

January 28, 2010

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1.0 Executive Summary

The following report documents the closure of a below-grade tank associated with the XTO Energy (XTO) Eunice Monument South Unit – Satellite 8 (Site) located in Lea County, New Mexico. The legal description of the Site is Unit I (NE/4, SE/4), Section 7, Township 21 South, Range 36 East (Figure 1). The geodetic location is N32° 29' 37.02", W103° 17' 51.66".

Closure activities consisted of notifications to the New Mexico Oil Conservation Division (OCD) and the landowner of record (New Mexico State Land Office), removal of below-grade tank and soil, the collection of soil samples, OCD issuance of a remediation case number and the subsequent investigation, backfilling and closure of the former below-grade tank. 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. Rick Wilson
Address:	XTO Energy Inc., Permian Division – SE New Mexico
	PO Box 700
	Eunice, New Mexico 88231
Office:	575.394.2089 X2201
Secondary Contact:	Guy Haykus
Address:	XTO Energy Inc.
	Midland Office
	200 N. Loraine Street, Suite 800
	Midland, Texas 79701
Office:	432.682.8873

3.0 Closure Actions

3.1 Location and Siting Description

The Site is located in rural Lea County, about 1 mile east-southeast of Oil Center, New Mexico. The nearest producing well is EMSU #293, API #30-025-04539. The approximately 0.6 acre Site contains the 90 barrel nominal capacity below-grade fiberglass tank, and ancillary production equipment. The Facility is covered with crushed caliche rock and is relatively flat (Figures 2 and 3).

The Facility's siting criteria presented the following findings:

- Groundwater is more than 100 feet below the bottom of the below-grade tank, 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.

Final Closure Report XTO Energy, Inc.

- No private, domestic fresh-water well or spring are within 500 horizontal feet of Facility.
- No fresh water wells or springs are located within 1,000 horizontal feet of 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 12, 2008, Larson & Associates, Inc. (LAI), on behalf of XTO, submitted a below-grade tank closure plan to the OCD in Santa Fe and Hobbs, New Mexico, in accordance with an Agreed Scheduling Order (ASO-008) between XTO and OCD. The Closure Plan was approved and signed by the OCD representative Mr. Brad Jones on July 17, 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 work, notification of closure was sent by XTO to the New Mexico State Land Office (the surface owner) and the OCD.

3.4 Tank Closure Activities

On December 10, 2009, XTO used a HydroVac truck to excavate around the tank, and a backhoe to remove the tank. Approximately 45 barrels of soil were disposed at Sundance Services, Inc. (OCD Permit R5516/NM-01-0003). Waste manifests are presented as Appendix B.

LAI personnel collected a 5-part composite soil sample from the bottom (Satellite #8 Bottom) of the excavation.

The sample was analyzed for the following constituents: benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1. The sample, Satellite 8 Bottom, (96.7 ppm) was below the TPH OCD reporting level of 100 ppm. Laboratory analytical data is presented as Appendix C.

The OCD District 1 office issued remediation project number 1RP-10-1-2378.

3.5 Excavation Backfilling

Excavation backfilling consisted of compacting six- to eight-inch lifts of clean soil purchased from the State Caliche pit, a nearby supply, 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 tank was located within an active oilfield tank battery, the site was not drilled and reseeded. See Appendix D for photographs of the entire closure process.

An Initial and Final form C-141 was submitted to the OCD Hobbs office and approved for excavation backfilling (Appendix E).

4.0 Conclusion and Recommendation

Based on the documented activities performed in conformance with the OCD-approved below-grade tank closure plan; LAI requests approval of final closure for this Site.

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Table 1 Soil Analytical Data Summary EMSU - Satellite #8 XTO Energy, Inc. Lea County, New Mexico Project No.: 8-0148

Sample ID	Date	Benzene	Ethyl benzene	Toluene	Total Xylenes	Total BTEX	TRPH	Chlorides
Reporting Limit		0.2				50	100	250
Satellite 8 Bottom	12/10/2009	<0.0011	<0.0011	<0.0023	<0.0011	<0.0011	96.7	99.3

Notes

RRAL - Recommended Remediation Action Level

Total Petroleum Hydrocarbons analyzed via Method 418.1.

Chlorides analyzed via EPA Method 300.

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

Bold and blue indicates the value exceeds NMOCD requirements.

Table 1 Soil Analytical Data Summary EMSU - Satellite #8 XTO Energy, Inc. Lea County, New Mexico Project No.: 8-0148

Sample ID	ample ID Date		Chlorides
RRAL:		5,000	250
Satellite-8 Fill	1/13/2010	360	41.9

Notes

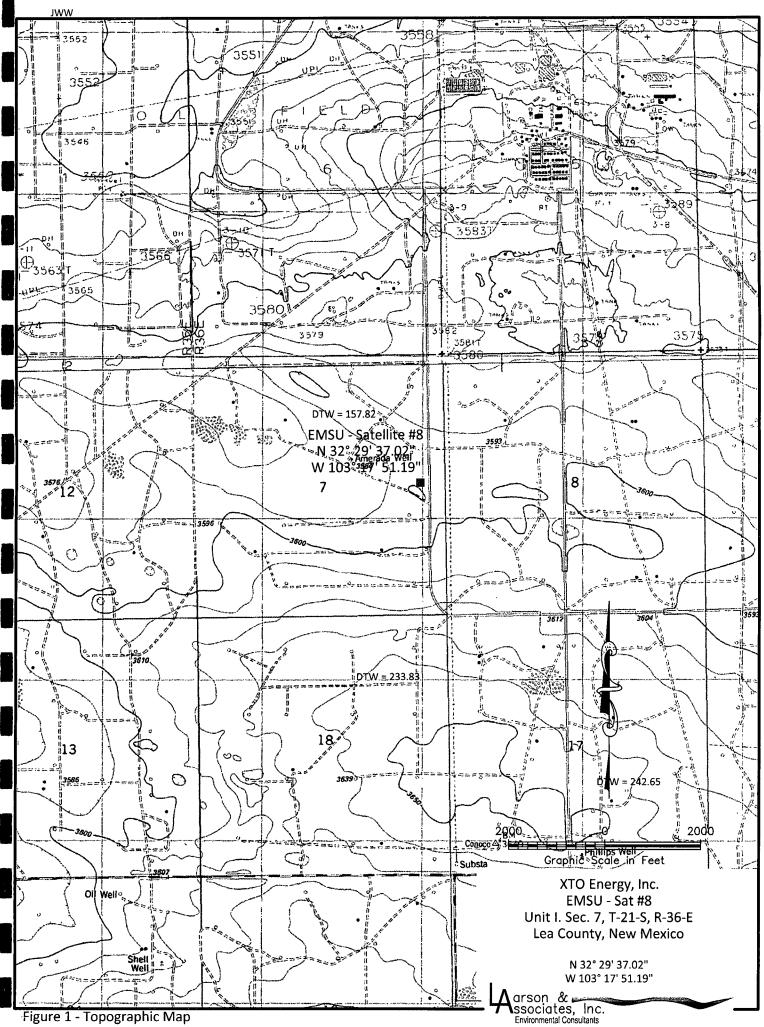
RRAL - Recommended Remediation Action Level

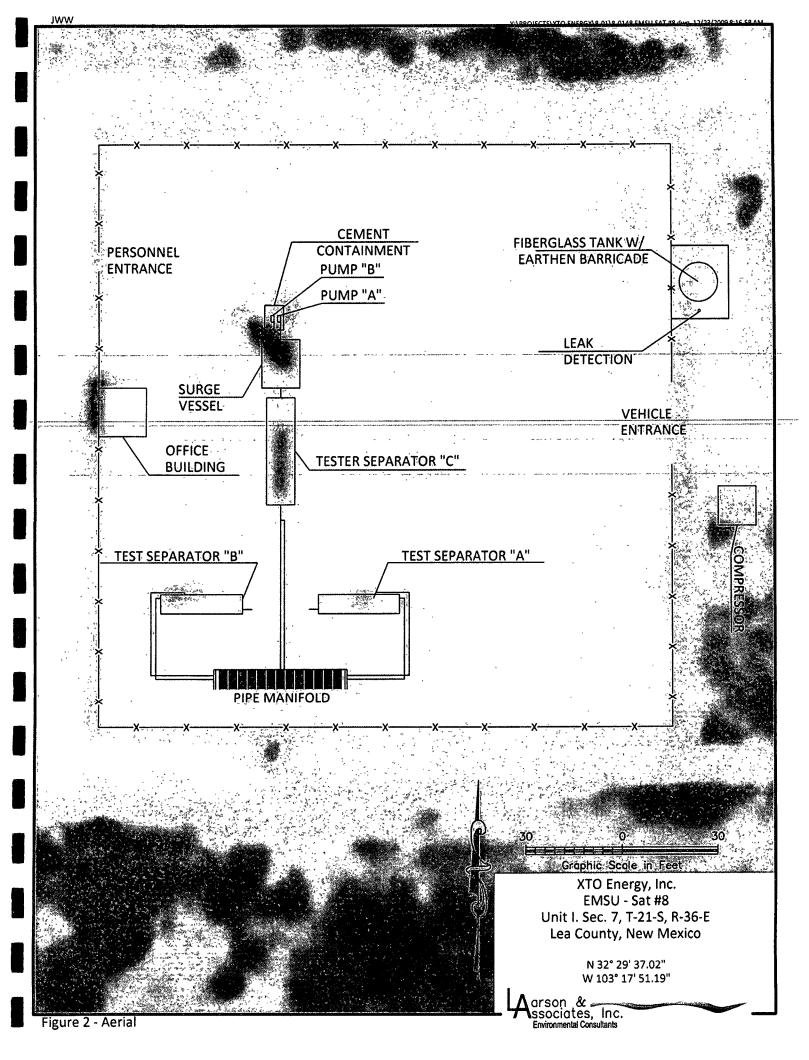
Chlorides analyzed via EPA Method 300.

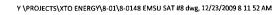
All values reported in Milligrams per Kilogram - dry (mg/kg, parts per million).

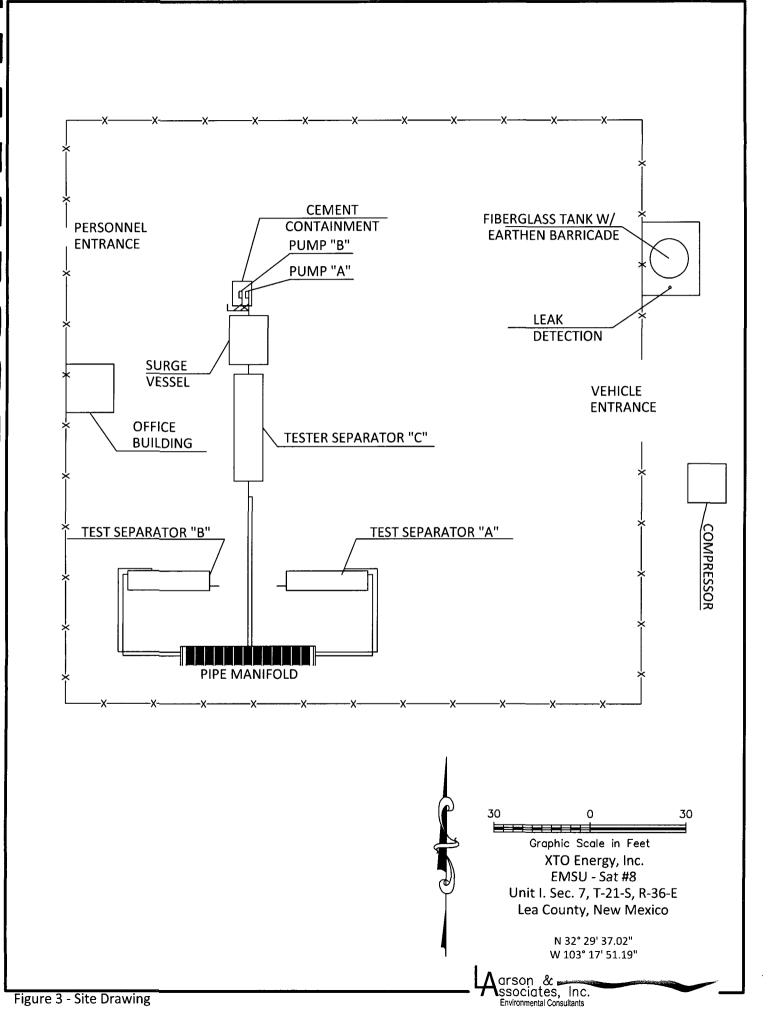
Bold and blue indicates the value exceeds NMOCD requirements.

Y \PROJECTS\XTO ENERGY\8-01\8-0148 EMSU SAT #8 dwg, 12/23/2009 8 05 57 AM









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	District IState of New MexicoForm C-1441625 N. French Dr., Hobbs, NM 88240FCENDED Minerals and Natural ResourcesDistrict II1301 W. Grand Avenue, Artesia, NM 88210DepartmentDepartmentDistrict IIIFEB 03 2010Oil Conservation Division1000 Rto Brazos Road, Aztec, NM 87410FEB 03 2010Oil Conservation Division1220 S. St. Francis Dr., Santa Fe, NM 875051220 South St. Francis Dr. Santa Fe, NM 87505For temporary pits, closed-loop systems, and below-grade tanks, submit 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
į	Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
	Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Ĺ	ı. Operator: XTO ENERGY, INC. OGRID #: 5380
_	Address: PERMIAN DIVISION-SE NEW MEXICO, P.O. BOX 700, EUNICE, NEW MEXICO 88231
ł	Facility or well name: EMSU-SATELLITE 8/EMSU-WELL NO. 293 (Nearest Well)
	API Number: 30-025-04539 (EMSU Well No. 293) OCD Permit Number:
	U/L or Qtr/Qtr <u>Unit I</u> Section 7 Township <u>21S</u> Range <u>36E</u> County <u>LEA</u>
	Center of Proposed Design: Latitude 32° 29' 37.02'' N Longitude 103° 17' 51.66'' W NAD: 1927 X 1983
	Surface Owner: 🗌 Federal 🔲 State 🖾 Private 🗌 Tribal Trust or Indian Allotment
	2.
	Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness String-Reinforced
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE PVC Other
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE PVC Other
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness
	Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness

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,			
<i>institution or church)</i> Four four strands of barbed wire evenly spaced between one and four feet			
Alternate. Please specify			
7.			
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)			
 Screen Netting Other Monthly inspections (If netting or screening is not physically feasible) 			
8. Signs: Subsection C of 19.15.17.11 NMAC			
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers			
Signed in compliance with 19.15.3.103 NMAC			
9.			
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.			
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau	office for		
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.			
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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro 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 dry above-grade tanks associated with a closed-loop system.	priate district pproval.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	🗋 Yes 🗋 No		
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No		
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ☐ NA		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. <i>(Applies to permanent puts)</i>	☐ Yes ☐ No ☐ NA		
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No		
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No		
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No		
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No		
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No		
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗍 No		

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 19.15.17.12 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 of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
Previously Approved Design (attach copy of design) API Number: or Permit Number:				
12.				
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.				
 Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 				
Previously Approved Design (attach copy of design) API Number:				
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use				
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)				
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Rereaded 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 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 				

11.

^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D N Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if mo facilities are required.	NMAC) pre than two
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 Yes (If yes, please provide the information below) No	
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
^{17.} <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distri- considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justific demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ct 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 Ground water is between 50 and 100 feet below the bottom of the buried waste	□ Yes ⊠ No □ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No □ NA
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🛛 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	🗌 Yes 🗵 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗵 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗵 No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗵 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗋 Yes 🗵 No
Within a 100-year floodplain. - FEMA map	🗌 Yes 🛛 No
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play 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 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 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 canter 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 I of 19.15.17.13 NMAC 	Lis. 17.11 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, ac	courate and complete to the best of my knowledge and belief.
	-
Name (Print): U. G. Haykeys	Title: PRIDUCTION SupERINTENDENT
Signature: WWHOLD	Date: 12/12/08
e-mail address: William_haykus @ YTO ENERgy. LL	Telephone: <u>432-620-6705</u>
20. OCD Approval: Permit Application (including closure plan) X Closur	- Diar (anity) D OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title: Thurannerstat Frighter	
The	OCD Permit Number:
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsect Instructions: Operators are required to obtain an approved closure plan pr The closure report is required to be submitted to the division within 60 days section of the form until an approved closure plan has been obtained and the	tor to implementing any closure activities and submitting the closure report. Is of the completion of the closure activities. Please do not complete this he closure activities have been completed.
	Closure Completion Date:
22. Closure Method: Image: State Excavation and Removal Image: State Excavation and Removal </th <th>ternative Closure Method 🔲 Waste Removal (Closed-loop systems only)</th>	ternative Closure Method 🔲 Waste Removal (Closed-loop systems only)
two facilities were utilized.	, drilling fluids and drill cuttings were disposed. Use attachment if more that
Disposal Facility Name:	
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed o	
Required for impacted areas which will not be used for future service and ope	erations:
 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	ng items must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached.	
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 closu Disposal Facility Name and Permit Number Disposal Fac	are) cility Name: <u>Sundance Services, Inc.</u> Permit Number: <u>R5516/NM-01-0003</u>
Soil Backfilling and Cover Installation	Sinty Name. Sundance Scivices, Inc., Termin Number, Res Information
Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude 32° 29' 37.02'' N Longitu	ude <u>103° 17' 51.66" W</u> NAD: <u>1927</u> <u>1983</u>
25.	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closubelief. I also certify that the closure complies with all applicable closure requ	
Name (Print):W.G. Haykus	Title:Production Superintendent
Signature: (), 2 1-200 bors	- loolu
	Date: Date:

·	
· K. 	
Sundance Services, Inc. P.O. Box 1737 ★ Eunice, New Mexico 88231 (575) 394-2511 TICKET Nº 128720	
LEASE NAME: FILLIER MINIMENT SAT #8	
TRANSPORTER COMPANY: 511) Badage TIME 2:28 AM/PM)	
CHARGE TO: V-TO RIG NAME: DEME HOLD INT	
TYPE OF MATERIAL	
] Production Water [] Drilling Fluids [] Rinsate] Tank Bottoms [] Contaminated Soil [] Jet Out Solids [] BS&W Content: [] Call Out	
Description: <u>Aplida</u>	
RC or API #	
OLUME OF MATERIAL) BBLS: [] YARD: []:	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS. MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR BEOTHERMAL ENERGY.	
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS OB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY PPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S ACILITY FOR DISPOSAL.	
THIS WILL CERTIFY that the above Transporter loaded the material represented by this ransporter Statement at the above described location, and that it was tendered by the above described hipper. This will certify that no additional materials were added to this load, and that the material was elivered without incident.	
RIVER:	
(SIGNATURE)	
ACILITY REPRESENTATIVE:	

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	er.
Sundance Services, Inc. P.O. Box 1737 ★ Eunice, New Mexico 88231 (575) 394-2511	тіскет №2 128753
LEASE OPERATOR/SHIPPER/COMPANY: XTO	
LEASE NAME: Funice Monument So	auch Sat #18
TRANSPORTER COMPANY: 5W Badaer	TIME / M. L/ SAM/PM
	ERATOR COMPANY MAN'S NAME: Dema Hudao
CHARGE TO: X77	RIG NAME AND NUMBER
TYPE OF MATE	
[] Production Water [] Drilling Fluids [] Tank Bottoms [] Contaminated Soli	[] Rinsate [] Jet Out
[] Jointaminated Soli [] Solids [] BS&W Content:	[] Call Out
Description: Solids	
RRC or API #	、 、
VOLUME OF MATERIAL MBBLS. 15 :	[]YARD: []
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANC IOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THA MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND REC TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 3 THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLU ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCT GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPT	T THE WASTE MATERIAL SHIPPED HEREWITH IS COVERY ACT OF 1976, AS AMENDED FROM TIME 61.001 et seq., AND REGULATIONS RELATED JIDS, PRODUCED WATERS, AND OTHER WASTE TION OF CRUDE OIL OR NATURAL GAS OR TANCE OF THE MATERIALS SHIPPED WITH THIS
OB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONI DPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRAN FACILITY FOR DISPOSAL.	
THIS WILL CERTIFY that the above Transporter loade Transporter Statement at the above described location, and the chipper. This will certify that no additional materials were additional without incident.	nat it was tendered by the above described
DRIVER: Julelling 21 The	
(SIGNATURE) ACILITY REPRESENTATIVE: Jda Sta Cruiz	
(SIGNATURE) White - Sundance Canary - Sundance Acct #1 Pink - Transporter Revised 09/09	Superior Printing Service, Inc.
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Analytical Report 355229

for

Larson & Associates

Project Manager: Michelle Green

XTO / ESMU - Satellite - 8

8-0148

21-DEC-09





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917)



21-DEC-09



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

Reference: XENCO Report No: **355229 XTO / ESMU - Satellite - 8** 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 355229. 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. 355229 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 355229



Larson & Associates, Midland, TX

XTO / ESMU - Satellite - 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Satellite-8 Pit Bottom	S	Dec-10-09 09:40		355229-001

CASE NARRATIVE



Client Name: Larson & Associates Project Name: XTO / ESMU - Satellite - 8

Project ID:8-0148Work Order Number:355229

Report Date: 21-DEC-09 Date Received: 12/11/2009

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-785465 Percent Moisture None

Batch: LBA-785471 Anions by E300 None

Batch: LBA-786005 TPH by EPA 418.1 None

Batch: LBA-786278 BTEX by EPA 8021B SW8021BM

Batch 786278, m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 355229-001. The Laboratory Control Sample for m,p-Xylenes is within laboratory Control Limits



Project Location:

Project Id: 8-0148

Contact: Michelle Green

Certificate of Analysis Summary 555227

Larson & Associates, Midland, TX

Project Name: XTO / ESMU - Satellite - 8



Date Received in Lab: Fri Dec-11-09 09:23 am

Report Date: 21-DEC-09

Project Manager: Brent Barron, II

	Lab Id:	355229-001			
Analysis Requested	Field Id:	Satellite-8 Pit Bottom			
Analysis Kequesteu	Depth:				
	Matrix:	SOIL			
	Sampled:	Dec-10-09 09.40		4	
Anions by E300	Extracted:				
	Analyzed:	Dec-11-09 18 28	•		
	Units/RL:	mg/kg RL			
Chloride		993 476			
BTEX by EPA 8021B	Extracted:	Dec-17-09 13.30			
	Analyzed:	Dec-17-09 21.12			
	Units/RL:	mg/kg RL			
Benzene		ND 0 0011	-		
Toluene		ND 0 0023			
Ethylbenzene		ND 0.0011			
m,p-Xylenes		ND 0 0023			
o-Xylene		ND 0 0011		 	
Total Xylenes		ND 0.0011			
Total BTEX		ND 0.0011			
Percent Moisture	Extracted:				
	Analyzed:	Dec-11-09 17 00			
	Units/RL:	% RL			
Percent Moisture		11.7 1.00			
TPH by EPA 418.1	Extracted:				
	Analyzed:	Dec-16-09 09.46			
	Units/RL:	mg/kg RL			
TPH, Total Petroleum Hydrocarbons		96.7 11.3	· · · ·	 	

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, II

Odessa Laboratory Manager

Page 5 of 15





- 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.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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(210) 509-3334	(210) 509-3335
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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries



'ork Orders : 355229 Lab Batch #: 786278	, Sample: 545849-1-BKS / B	KS Batch		D: 8- 0148 ::Solid		
Units: mg/kg	Date Analyzed: 12/17/09 18:13		RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1400	Analytes	0.0224	0.0000			
1,4-Dıfluorobenzene 4-Bromofluorobenzene		0.0324	0 0300	108	80-120 80-120	
··· ••••••					80-120	
Lab Batch #: 786278	Sample: 545849-1-BSD / B					
Units: mg/kg	Date Analyzed: 12/17/09 18:36	SU	RROGATE R	ECOVERYS	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene	•	0.0315	0.0300	105	80-120	
4-Bromofluorobenzene	and the state of the	0 0304	0.0300	101	80-120	
Lab Batch #: 786278	Sample: 545849-1-BLK / B	LK Batcl	h: 1 Matrix	: Solid	I <u></u> I	
Units: mg/kg	Date Analyzed: 12/17/09 19:42	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1.4-Difluorobenzene	Analytes	0.0276	0.0200		00.100	
4-Bromofluorobenzene		0.0276	0.0300	92	80-120 80-120	
					80-120	
Lab Batch #: 786278	Sample: 355229-001 / SMP					
Units: mg/kg	Date Analyzed: 12/17/09 21:12	501	RROGATE R	ECOVERYS	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
140.0	Analytes			[D]		
1,4-Difluorobenzene		0.0267	0.0300	89	80-120	
4-Bromofluorobenzene		0.0269	0.0300	90	80-120	
Lab Batch #: 786278	Sample: 355585-006 S / MS					
Units: mg/kg	Date Analyzed: 12/18/09 17:23	SU	RROGATE R	ECOVERY S	STUDY	
BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytas)		
1,4-Difluorobenzene	Analytes	0.0309	0.0300	[D] 103	80-120	

* Surrogate outside of Laboratory QC limits

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

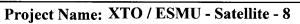
*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes



Form 2 - Surrogate Recoveries



	Work Orders : 355229		Project ID: 8-0148							
_	Lab Batch #: 786278	Sample: 355585-006 SD / N	ISD Bate	h: l Matrix	c:Soil					
	Units: mg/kg	Date Analyzed: 12/18/09 17:46	SU	RROGATE R	ECOVERY	STUDY				
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
_	1,4-Difluorobenzene		0.0303	0.0300	101	80-120				
	4-Bromofluorobenzene		0.0267	0.0300	89	80-120				

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

)



Blank Spike Recovery



D

Project Name: XTO / ESMU - Satellite - 8

Work Order #: 355229		Pr	oject ID:			8-0148
Lab Batch #: 785471 Date Analyzed: 12/11/2009	Sample: 78547 Date Prepared: 12/11/		Matrix: Analyst:	Solid LATCOF	t	
Reporting Units: mg/kg	Batch #: 1		BLANK SPI			STUDY
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	_
Chloride	ND	10.0	10.7	107	75-125	

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: XTO / ESMU - Satellite - 8

Work Order #: 355229							Pro	ject ID: 8	8-0148		
Analyst: ASA	D	ate Prepar	ed: 12/17/200)9			Date A	nalyzed: 1	2/17/2009		
Lab Batch ID: 786278 Sample: 545849-	I-BKS	Bate	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	ŶY	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0 1090	109	01	0.1089	109	0	70-130	35	
Toluene	ND	0.1000	0 1122	112	0.1	0.1122	112	0	70-130	35	
Ethylbenzene	ND	0.1000	0.1081	108	01	0.1079	108	0	71-129	35	
m,p-Xylenes	ND	0.2000	0.2399	120	0 2	0 2402	120	0	70-135	35	
o-Xylene	ND	0.1000	0.1192	119	01	0.1188	119	0	71-133	35	
Analyst: LATCOR	D	ate Prepar	ed: 12/16/20	09			Date A	nalyzed:	2/16/2009		
Lab Batch ID: 786005 Sample: 786005-	1-BKS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	γ	
TPH by EPA 418.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	2500	2610	104	2500	2750	110	5	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



1

Project Name: XTO / ESMU - Satellite - 8

Vork Order #: 355229 Lab Batch #: 785471	Date Prepared: 12/11	12009		o <mark>ject ID:</mark> nalyst: L	8-0148	
Date Analyzed: 12/11/2009 QC- Sample ID: 355331-002 S	Batch #: 1	72009		latrix: S		
Reporting Units: mg/kg	MATR	IX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]	101	[2]		
Chloride	170	220	387	99	75-125	

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

RL - Below Reporting Limit



Form 3 - MS7 WISD Recoveries

Project Name: XTO / ESMU - Satellite - 8



Work Order #: 355229						Project II	D: 8-0148				
Lab Batch ID: 786278	QC- Sample ID:			Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed: 12/18/2009	Date Prepared:	12/17/2	009	An	alyst:	ASA					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	ND	0 1214	0.1066	88	0.1214	0.0948	78	12	70-130	35	
Toluene	ND	0 1214	0.1080	89	0 1214	0.0938	77	14	70-130	35	
Ethylbenzene	ND	0 1214	0.1002	83	0 1214	0.0870	72	14	71-129	35	
m,p-Xylenes	ND	0.2427	0 2181	90	0.2427	0 1543	64	34	70-135	35	x
o-Xylene	ND	0.1214	0.1050	86	0 1214	0 0912	75	14	71-133	35	
Lab Batch ID: 786005 Date Analyzed: 12/16/2009	QC- Sample ID: Date Prepared:				tch #: alyst:	1 Matri LATCOR	x: Soil				
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH by EPA 418.1	Parent Sample Browlt	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		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	96 7	2830	2940	100	2830	3020	103	3	65-135	35	

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

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

- E.	E1	21	
la	borg	atori	es



Project Name: XTO / ESMU - Satellite - 8

Work Order #: 355229

Lab Batch #: 785471 Date Analyzed: 12/11/2009 QC-Sam

Project ID: 8-0148

Date Analyzed: 12/11/2009 QC- Sample ID: 355331-002 D	Date Prepar Batch		Mat	lyst:LATC rix: Soil		
Reporting Units: mg/kg		SAMPLE / SAMPLE DUPLICATE RECOVE				
Anions by E300		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			l
Chloride		170	148	14	20	
Lab Batch #: 785465						
Date Analyzed: 12/11/2009	Date Prepar	ed: 12/11/2009	Ana	lyst: WRU		
QC- Sample ID: 355229-001 D	Batch #: 1		Mat	rix: Soil		
Reporting Units: %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Demoent Maisture		Parant Sample	Sample		Control	

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	117	12.4	6	20	

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

CHAIN-OF-CUSTODY DATE: 12-10-09 PAGE | OF A arson & ssociates, Inc. Environmental Consultants - 507 N. Marienfeld, Ste. 200 PO #: LAB WORK ORDER #: Midland, TX 79701 PROJECT LOCATION OR NAME: XTO/ESMV - Satellite - 8 432-687-0901 LAI PROJECT #: 8-0148 COLLECTOR: D. Mcbinnis Data Reported to: M. Green A CONTRACT OF CONT SNO SHOL PRIMERO HOLDOWNO S=SOIL P=PAINT J. Marging J. Harling TRRP report? PRESERVATION W=WATER SL=SLUDGE Yes No A=AIR **OT=OTHER** NaOH 🗆 TIME ZONE: UNPRESERVED Time zone/State: # of Containers 355229 MST ٥ H₂SO₄ [HNO3 Field ы P Sample I.D. Lab # FIELD NOTES Date Time Matrix Solellite 8 p. + Bollon Ol 12-10 2 0940 S X V TOTAL RELINQUISHED BY: Signature) RECEIVED BY: (Signature) RECEIVED BY: (Signature) DATE/TIME LABORATORY USE ONLY: TURN AROUND JIME 12-11-09/0923 RECEIVING TEMP: 4.1 THERM #: A NORMAL RELINQUISHED BY:(Signature) DATE/TIME 1 DAY 🖬 CUSTODY SEALS - D BROKEN D INTACT D NOT USED 2 DAY **RELINQUISHED BY:(Signature)** DATE/TIME **RECEIVED BY: (Signature)** CARRIER BILL # OTHER 📮 HAND DELIVERED

Envisonmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Larson & Assoc
Date/ Time:	12.11.09 9:23
Lab ID # :	355229
Initials:	- An

Sample Receipt Checklist

Client Initials 4.1 No °C Temperature of container/ cooler? Yes #1 **Ves** #2 Shipping container in good condition? No Yes No Not Present Custody Seals intact on shipping container/ cooler? #3 Custody Seals intact on sample bottles/ container? Yes No Not Present #4 (Yes) #5 Chain of Custody present? No Yes No #6 Sample instructions complete of Chain of Custody? (es) No #7 Chain of Custody signed when relinquished/ received? #8 Chain of Custody agrees with sample label(s)? (Tes) No ID written on Cont./ Lid (Yes No #9 Container label(s) legible and intact? Not Applicable (Tes) No #10 Sample matrix/ properties agree with Chain of Custody? #11 Containers supplied by ELOT? (Yes) No Nes #12 Samples in proper container/ bottle? No See Below Ve No #13 Samples properly preserved? See Below (Yes) No #14 Sample bottles intact? 6.65 #15 Preservations documented on Chain of Custody? No Yes #16 Containers documented on Chain of Custody? No #17 Sufficient sample amount for indicated test(s)? (Yès No See Below Yes #18 All samples received within sufficient hold time? No See Below #19 Subcontract of sample(s)? Yes No Not Applicable #20 VOC samples have zero headspace? (Tes) No Not Applicable

Variance Documentation

Cooling process had begun shortly after sampling event

Analytical Report 358528

for

Larson & Associates

Project Manager: Michelle Green

EMSU Sat 8

8-0148

18-JAN-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

 Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
 New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917)



18-JAN-10



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

Reference: XENCO Report No: **358528 EMSU Sat 8** 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 358528. 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. 358528 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 358528



Larson & Associates, Midland, TX

EMSU Sat 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Satellite # 8 Fill	S	Jan-13-10 11:15		358528-001

CASE NARRATIVE



Client Name: Larson & Associates Project Name: EMSU Sat 8

Project ID:8-0148Work Order Number:358528

Report Date: 18-JAN-10 Date Received: 01/13/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-789453 Percent Moisture None

Batch: LBA-789653 Inorganic Anions by EPA 300 None

Batch: LBA-789701 TPH by EPA 418.1 None

ories.

Certificate of Analysis Summary 358528

Larson & Associates, Midland, TX

Project Name: EMSU Sat 8



Project Id: 8-0148 Contact: Michelle Green

Project Location:

Date Received in Lab: Wed Jan-13-10 04:50 pm

Report Date: 18-JAN-10

Project Manager: Brent Barron, II

	Lab Id:	358528-001			
Analysis Requested	Field Id:	Satellite # 8 Fill			
Aniiysis Kequesieu	Depth:				
	Matrix:	SOIL			
	Sampled:	Jan-13-10 11-15			
Anions by E300	Extracted:				
	Analyzed:	Jan-15-10 11 [.] 40			
	Units/RL:	mg/kg RL	2		
Chloride		41.9 4.21			
Percent Moisture	Extracted:				
	Analyzed:	Jan-14-10 17 [.] 00			
	Units/RL:	% RL	5		
Percent Moisture		ND 1.00			
TPH by EPA 418.1	Extracted:				
	Analyzed:	Jan-18-10 10:18			
	Units/RL:	mg/kg RL			
TPH, Total Petroleum Hydrocarbons		360 10.0			

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, II

Odessa Laboratory Manager





- 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.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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Phone	Fax
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116





D

Project Name: EMSU Sat 8

Work Order #: 358528			8-0148			
Lab Batch #: 789653	Sample: 789653-	1-BKS	Matrix	: Solid		
Date Analyzed: 01/15/2010	Date Prepared: 01/15/20)10	Analyst	: LATCOF	t i i i i i i i i i i i i i i i i i i i	
Reporting Units: mg/kg	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	
Chloride	ND	10.0	10.3	103	75-125	

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



BS / BSD Recoveries



Project Name: EMSU Sat 8

Work Order #: 358528 Analyst: LATCOR			-	red: 01/18/201	0			Date A	ject ID: 8 nalyzed: () Matrix: S	1/18/2010		
Lab Batch ID: 789701 Units: ^{mg/kg}	Sample: 789701-1-BK			h #: 1 K/BLANK S	SPIKE / F	BLANK S	PIKE DUPI				Y	
TPH by EPA	418.1 s	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
Analytes TPH, Total Petroleum Hydrocarb	pons	ND	2500	2870	115	2500	2870	115	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

XENCO	
Laboratories	

Form 3 - MS Recoveries

Project Name: EMSU Sat 8



Lab Batch #: 789653 Date Analyzed: 01/15/2010	Date Prepared: 01/15	5/2010	Α	nalyst: L		
QC- Sample ID: 358528-001 S Reporting Units: mg/kg	Batch #: 1 MATR	XIX / MA	N TRIX SPIKE	Aatrix: So RECO		DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R D	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	419	105	153	106	75-125	

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

RL - Below Reporting Limit





Project Name: EMSU Sat 8



Work Order #: 358528						Project II	D: 8-0148				
Lab Batch ID: 789701 Date Analyzed: 01/18/2010 Reporting Units: mg/kg	QC- Sample ID: Date Prepared:	01/18/2	010	An		1 Matrix LATCOR KE DUPLICA	k: Soil	OVERY	STUDY		
TPH by EPA 418.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%Ř [D]	Added [E]	Result F	%R [G]	%	%R	%RPD	
TPH, Total Petroleum Hydrocarbons	72.6	5230	5550	105	5230	5570	105	0	65-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery $[G] = 100^{*}(F-A)/E$

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

Page 10 of 13



Sample Duplicate Recovery



IJ

Project Name: EMSU Sat 8

Work Order #: 358528

Lab Batch #: 789653				Project I	D: 8-0148	
Date Analyzed: 01/15/2010	Date Prepare	ed:01/15/2010) Anal	yst:LATC	COR	
QC- Sample ID: 358528-001 D	Batch	#: 1	Mat	rix: Soil		
Reporting Units: mg/kg		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300]	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Chloride		41.9	42.9	2	20	
Lab Batch #: 789453						
Date Analyzed: 01/14/2010	Date Prepare	ed: 01/14/2010) Anal	yst: WRU		
QC- Sample ID: 358525-001 D	Batch	#: 1	Mat	rix: 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]			

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

				Pho) Double C ne (512) 38	8-82	•22 •	FA)			-	229													N-	-0	38526 F-CUSTOD
CLIENT: ARSON ADDRESS:	X H	55 00	LATI	EX	-							D,	ATE:	-4	1-1	3-	10									P/	AGEOF
PHONE: DATA REPORTED TO: ADDITIONAL REPORT	Mic	HELL		ax_ G le	EN							P PI CI	D#: Roje Lient	CT L	.OCA OJE(ATIO CT #	N OI	R NA	ME:		1L W 115	ORK <u>4</u>			#: 8 сто	R: _	R. BROOKS
Authorize 5% surcharge for TRRP report?	A=AIR	ATER S)T=OT⊦	DGE	Container	# of Containers	PRE	T		<u>B</u>	ANAL SC	55% 5 %							A A A A A A A A A A A A A A A A A A A					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Land Contraction of the second	C C C C	CLARENCE CONTRACTOR
Sample I.D.	Lab #	Date	Tame	Matrix	Турө	*	Ŷ		∎ ĭ	3	X	×/	3/2 8	\${\$}		<u>}</u>	¥%)	2/3/	E CONTRACTOR	49/0 49/0	}}	<u>}</u>	\$ ³ /2	ž	\square	\square	FIELD NOTES
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TOTAL RELINQUISHED BY: (Sig RELINQUISHED BY: (Sig RELINQUISHED BY: (Sig	nature)	/-	0 -/3-/4 D	ATE/TI	<u>راخی ()</u> ME RE	CEN	(ED B VED B	J Y: (S	W1 iignat	. 3 ture)	3.10	16.	SD	RU: 1 D. 2 D. NO	SH 🗆		UND LL FI LL FI		R C D	ECE UST CAF	ivini Ody Rriei	G TEI SEAI R BIL	VIP:_ LS-` L#	<u>5.</u> ¬ в	6	-	THERM #:] INTACT / NOT USED



Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client	Lavson & Assoc.
Date/ Time:	1.13.10 16:50
Lab ID # :	358528
Initials:	AL

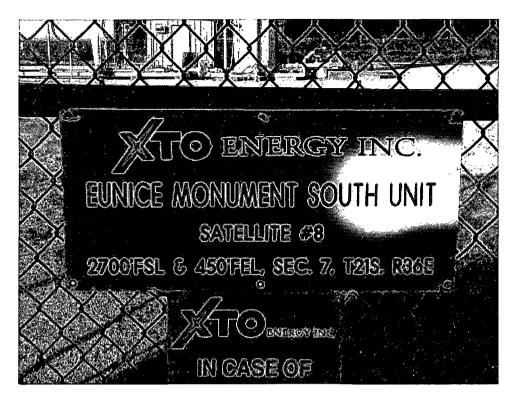
Sample Receipt Checklist

	·	•		Client Ini
¥1	Temperature of container/ cooler?	(Yes)	No	5.6 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Presento
#5	Chain of Custody present?	(Tes)	No	
#6	Sample instructions complete of Chain of Custody?	(Yes)	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	(Tes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples in proper container/ bottle?	(Yes)	No	See Below
#13	Samples property preserved?	Yes	No	See Below
#14	Sample bottles intact?	(Yes)	No	
#15	Preservations documented on Chain of Custody?	Yes	No	· · · · · · · · · · · · · · · · · · ·
#16	Containers documented on Chain of Custody?	(Yes)	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	(Yes)	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable

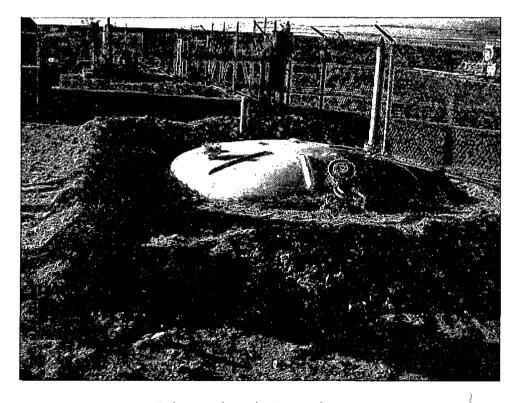
Variance Documentation

Contact:		_ Contacted by: D	Date/ Time:				
Regarding:							
Corrective Action Taken	:						
Check all that Apply:		See attached e-mail/ fax Client understands and would like to proceed with analys Cooling process had begun shortly after sampling event					

EMSU – Satellite #8 Below-Grade Tank Closure Photodocumentation



Facility Placard



Below-grade tank prior to closure.

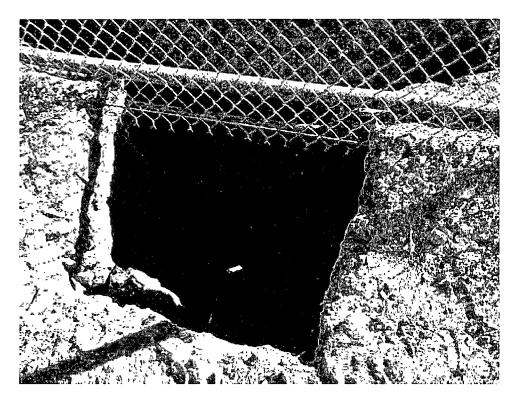


HydroVac excavation in progress.



Tank being removed from its hold.

EMSU – Satellite #8 Below-Grade Tank Closure Photodocumentation



View of transfer line.



Refilled and graded former tankhold location.

				د	1	0 - RP-0 9-12-	- 2378 R	ece	IVE					
District II Energy N 1301 W. Grand Avenue, Artesia, NM 88210				Energy Mi	neral	te of New Mexico FEB 03 2010 Form C-1 nerals and Natural Resources Revised October 10, 2						,		
District IV 1220 Sou					Sout	servation Division outh St. Francis Dr. 1 Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form								
Release Notification and Corrective Action														
N	VTO			(T)) ()		OPERATOR Initial Report Fin								
Address: P.O.	Name of Company: XTO Energy Permian Division SE New Mexico Address: P.O. Box 700, Eunice, New Mexico 88231						Contact: Rick Wilson/Production Foreman Telephone No.: (575) 394-2089							
	Facility Name: EMSU – Satellite No. 8						Facility Type: Tank Battery – Nearest Well is EMSU #293 (API #30-025-04539)							
Surface Ow	ner: State	of New Me	xico	Mineral C	Dwner				Lease N	<u>Io.</u>				
						N OF REI		1						
Unit Letter I	Section 7	Township 21S	Range 36E	Feet from the	Nort	h/South Line	/South Line Feet from the East/West L				County Lea			
Latitude: N 32° 29' 37.02" Longitude: W 103° 17' 51.66"														
Type of Relea	ase: Crude	Oil and Wate	r	NAI	URI	Volume of Release: Unknown Volume Recov					N/A			
Source of Rel				······································		Date and H	Iour of Occurrence		Date and Hour of Discovery:					
Was Immedia	ate Notice (Given?	Unknown Unknown If YES, To Whom? If											
By Whom?						Date and Hour								
Was a Watero			Yes 🛛			If YES, Volume Impacting the Watercourse.								
If a Watercou	rse was Imj	pacted, Descri	ibe Fully.*	r I					ATERA	1156				
Describe Caus from bottom o clean soil.	se of Proble of tank exce	em and Remea avation shows	lial Action evidence	1 Taken.* Below g of a release. TPH	grade t I was d	ank removed p letected at 96.7	er OCD approved ppm below the re	1 closure	e plan. Initi	ial composi	te sam pose to	ple (5-spot) o close with		
request to clos	se tank exca	avation per O	CD approv	en.* No cleanup a ved closure plan.					-	•				
regulations all public health of should their op	operators a or the envir perations ha ment. In ac	are required to onment. The ave failed to a idition, NMO	acceptanc dequately CD accept	is true and compl d/or file certain re- e of a C-141 repo- investigate and re- tance of a C-141 r	elease : rt by tl media	notifications ar ne NMOCD ma te contamination	nd perform correct arked as "Final Re on that pose a three	tive acti eport" de eat to gre	ons for rele oes not reli ound water	eases which eve the ope , surface wa	may e rator o ater, hu	ndanger f liability uman health		
Signature:	60	OIL CONSERVATION DIVISION												
Printed Name: (Guy Haykus	Approved by	District Supervis	UNME	NTAL E	NGINEEI	7							
Title: PRODI	idean	Approval Date:												
E-mail Address: William_haykus@xtoenergy.com						Conditions of Approval:								
Date: 12/21/200	9	Phone: (43	2) 682-887	/3							2378			
Attach Additi					L					1 1 1	<u>,- `</u>			

F GIRL 1003450841

						10-1-3	2378						
District I				S+		P-09-12-	lico.	RECL	IVE	` `}	_		
						1					Form C-141 tober 10, 2003		
1301 W. Grand District III	Avenue, Arte	esia, NM 88210)			rvation Div				Submit 2 C	opies to	o appropriate	
1000 Rio Brazo District IV	000 Rio Brazos Road, Aztec, NM 87410						is Dr.	1086:	ourd	District (wi	Office in th Rule	n accordance 116 on back	
220 S. St. Fran	cis Dr., Sant	a Fe, NM 8750	5			e, NM 875						side of form	
		· · · · · · · · · · · · · · · · · · ·	Rele	ease Notific	catio	n and Co	orrective	Action	n				
					-	OPERA	FOR		🔲 Initi	al Report	\boxtimes	Final Report	
		Energy Permian inice, New Mex	SE New Mexico		Contact: Rick Wilson/Production Foreman Telephone No.: (575) 394-2089								
Facility Name:			100 00251	······································		Facility Type: Tank Battery – Nearest Well is EMSU #293 (API #30-025-04539)							
Surface Ow	ner: State	of New Me	xico	Mineral C	Dwner	· · · · · · · · · · · · · · · · · · ·			Lease N	No.			
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter I	Section 7	Township 21S	Range 36E	Feet from the		I/South Line	Feet from th	ne East/	West Line	County	Lea		
	L	I	Latit	ude: N 32° 29'	37.02"	' Longitud	e: W 103° 1	17' 51.66'	**			Lana (1997)	
				NAT	URE	OF REL			1				
Type of Release Source of Rel							Release: Unk	and the second sec	Recovered: Hour of Dis				
						Unknown		Unknown					
Was Immedia	ate Notice C		Yes 🕅	No 🗌 Not Re	equired	If YES, To	Whom?						
By Whom?					. .	Date and Hour							
Was a Watero	course Read	hed?	Yes 🛛	No		If YES, Volume Impacting the Watercourse.							
If a Watercou	rse was Imj	pacted, Descri	ibe Fully.			<u> </u>		<u> </u>					
									are l				
Describe Cau	se of Proble	em and Remex	dial Action	n Taken.* Below	grade ta	ank removed p	er OCD appro	varek@	re plan. Init	tial composi	te samp	le (5-spot)	
from bottom o clean soil.	of tank exca	avation shows	evidence	of a release. TPF	ł was d	etected at 96.7	ppm below th	e reporting	g limit of 10	0 ppm. Pro	pose to	close with	
				en.* No cleanup ved closure plan.	action	was taken at th	is time; the T	PH was be	low reportin	ng limit (100) ppm).	хто	
		-		is true and comp	lete to t	he best of my	knowledge er	nd underete	and that num	suant to NM	OCD 7	iles and	
regulations all	operators a	are required to	o report an	d/or file certain r	elease r	notifications ar	nd perform co	rrective ac	tions for rel	eases which	may er	ndanger	
				e of a C-141 repo investigate and re									
or the environ	ment. In ad	ldition, NMO	CD accept	tance of a C-141									
federal, state,	or local law	s and/or regu					OIL CO	NSER	VATION	DIVISIO	DN		
Signature:	ĽU	s Han	b					L.J.	-10hu	Same			
Printed Name:	Guy Haykus	- XTO Energy	2			Approved by	District Supe	MBONN	IENTAL	ENGINEE	ΪK		
Title: Rood	aspre	N SUDE	Rinte	ndent		Approval Date:	1. 1.10		Expiration D	Date:			
E-mail Address:	William_ha	ykus@xtoenerg	gy.com			Conditions of A	pproval:			Attached			
Date: 12/21/200 Attach Additi		Phone: (43 ts If Necessa		/3						IEP#		2378	
			~										