



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

**May 12, 2017**

**Attn. Mike Bratcher**  
NMOCD, District 2  
811 South First Street  
Artesia, NM 88210

**RE: Corrective Action Plan  
XTO Energy  
Corral Canyon Federal #4 H  
UL/P sec. 5, UL/A sec. 8 T25S R29E  
32.152057, -103.998431  
2RP - 4190**

Mr. Bratcher:

XTO Energy (XTO) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

### **Background and Previous Work**

The site is located approximately six and six tenths (6.6) miles southeast of Malaga, New Mexico at Unit Letter P of Section 5 and Unit Letter A of Section 8 in Township 25 South of Range 29 East. This site is located in an area where groundwater is anticipated to be at approximately forty (40) +/- feet below ground surface (bgs) (See Figure 1).

On April 12<sup>th</sup>, 2017, XTO discovered a release of approximately thirteen and one half (13.5) barrels (bbls), with and estimated seven tenths (0.7) of crude oil and twelve and nine tenths (12.9) of produced water when a Victaulic header failed on an eight (8) inch line. An estimated four and one half tenths (0.45) bbls of crude and one (1) bbl of produced water were recovered. Approximately five thousand seven-hundred and eight (5,708) square feet (ft<sup>2</sup>) of pasture was impacted. New Mexico Oil Conservation Division (NMOCD) was notified of the release on April 27<sup>th</sup>, 2017, and an initial C-141 was submitted to NMOCD on April 27<sup>th</sup>, 2017, for approval.

Basin personnel were on site beginning April 18<sup>th</sup>, 2017, to begin delineation activities. Seven (7) sample points were established. The sample points, (SP 1, SP 2, SP 3, SP 4, SP 5, SP 6, SP 7) from the release area were field tested for chlorides. Confirmatory samples were submitted to a NMOCD approved and certified laboratory. Chloride, gasoline range organics (GRO) and diesel range organics (DRO) were analyzed in addition to benzene, toluene, ethyl-benzene, and xlyenes.

On April 19<sup>th</sup>, and April 20<sup>th</sup> 2016, Basin personnel continued delineation for chloride concentrations for areas where auger refusal was not met. Benzene, toluene, ethylbenzene and xylene (BTEX) concentrations were below the method detection limit for the laboratory while GRO and DRO concentrations are well below the recommended remediation action level (RRAL) of 100 mg/kg guideline. (See Figure 2).

### **Corrective Action Plan**

At the time of remediation, a non-impacted sample will be retrieved at an approximate depth of fifteen (15) feet in an adjacent area to obtain the background concentration of chlorides. Dependent upon the analytical result from the background sample, all sample point areas may require further delineation for chloride concentration. If delineation does not occur during the remediation process, a certified soil-bore installer will be procured to reach a depth where delineation is within the NMOCD limits for chlorides (250 mg/kg).

At the completion of delineation, the impacted soils will be excavated to a maximum depth of four (4) feet bgs for the areas of SP 2, SP 3, and SP 4. SP 5, SP 6, and SP 7 will be excavated to a total depth of ten (10) feet bgs. The 4' excavated area will then have two (2) feet of compacted gypsum (caliche) placed at the bottom of the excavation to serve as a barrier to inhibit migration of chlorides. The 10' excavation will have eight (8) feet of compacted caliche placed in the bottom. The remaining depth for both excavations will be filled with an aggregate of clean, non-impacted river rock, gravel, sand and soils in order to inhibit erosion while still creating a vadose zone for plant life. Because of the vast amounts of pipelines immediately in the area around SP 1, this area will be excavated to 2' bgs with six (6) inches of compacted caliche placed as liner in the bottom and the remaining area backfilled with the aggregate. The excavated area will then be contoured to the surrounding area.

At the completion of remediation and at a time conducive for germination, Basin will seed the imported and contoured aggregate with a blend of native, non-noxious vegetation approved by the Bureau of Land Management (BLM). The seed will be applied with either a drill or broadcast method to ensure complete coverage of affected area. The seeds will then be sown with a disc (in compacted soils), rake or a harrow.

The supporting documentation for this Corrective Action Plan is attached.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,



Robbie Runnels  
Project Manager  
Basin Environmental Service Technologies

(575) 393-2967

Attachments:

Figure 1 – Site Location Map

Figure 2 - Area Sampling Data

Appendix A – Photo Documentation

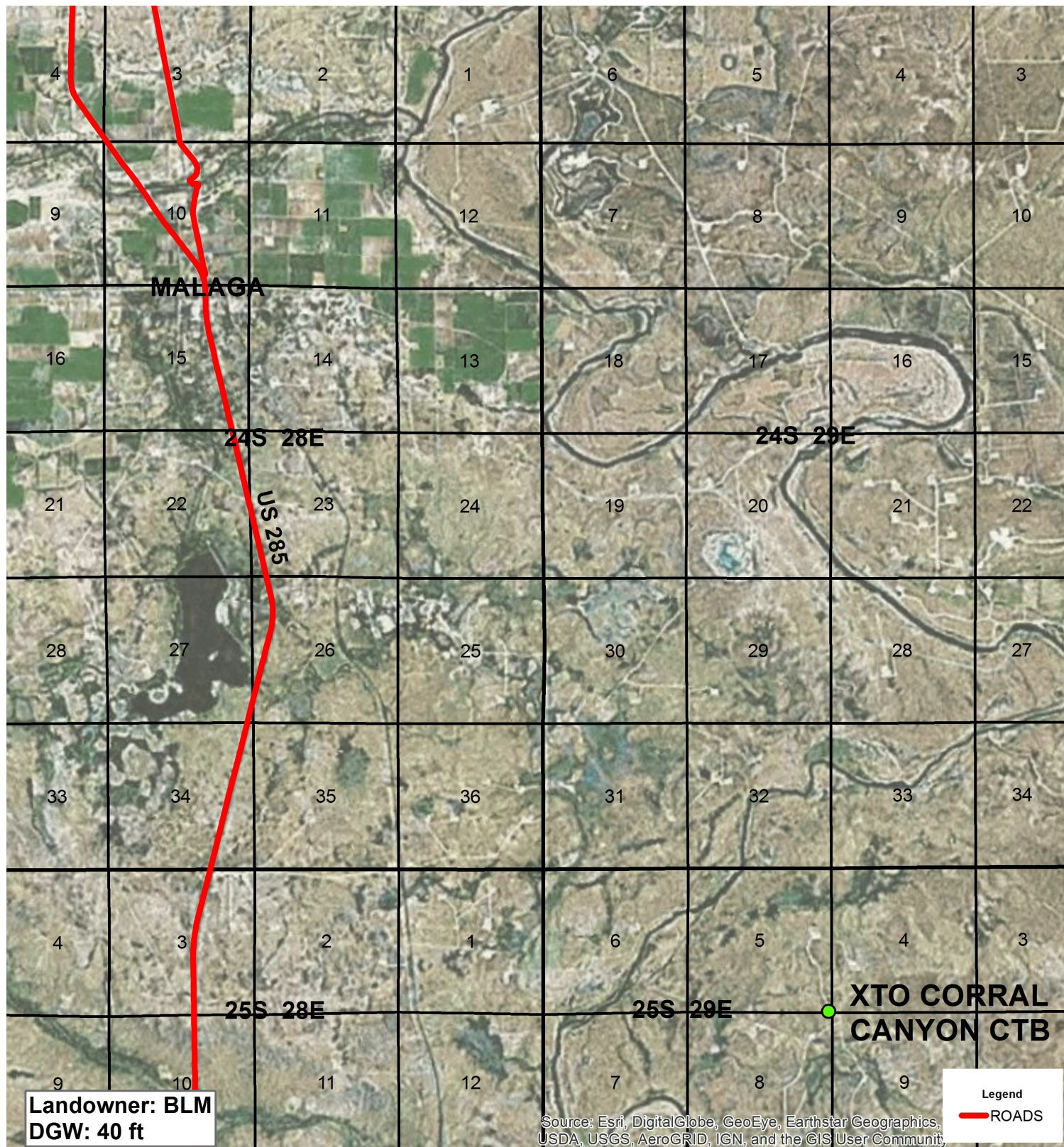
Appendix B – Laboratory Analysis

Appendix C – Initial C-141

# FIGURES



# Site Location



## **XTO CORRAL CANYON FEDERAL CENTRAL TANK BATTERY**

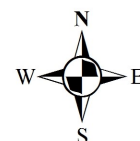
UL P SECTION 5  
UL A SECTION 8  
T-25-S R-29-E  
EDDY COUNTY, NM

GPS: 32.152057 -103.998431

## Figure 1

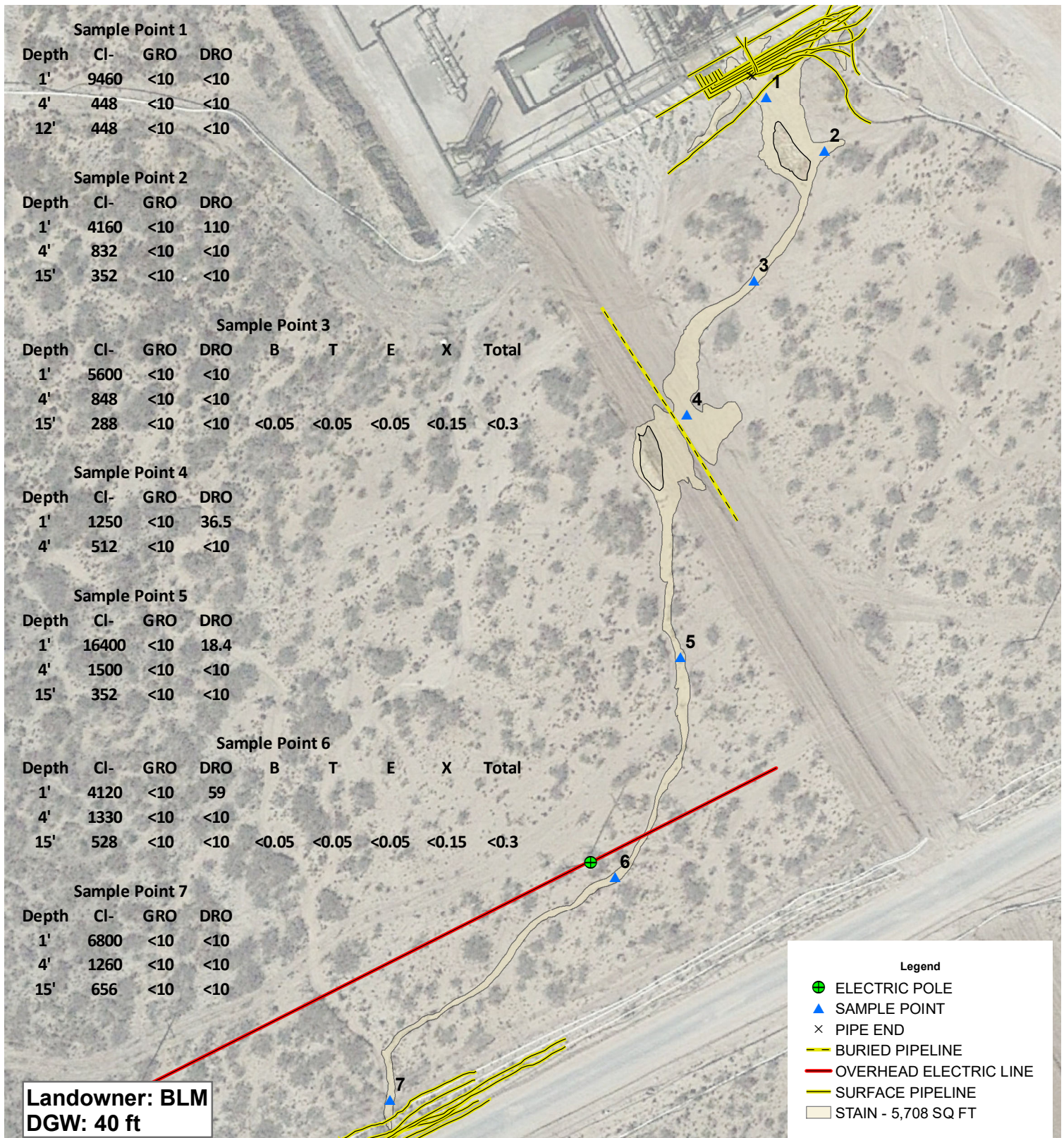
0 0.5 1  
Miles

Drawing date: 4/26/17  
Drafted by: T. Grieco





# Initial Sampling



## XTO CORRAL CANYON FEDERAL CENTRAL TANK BATTERY

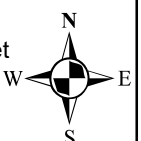
UL P SECTION 5  
UL A SECTION 8  
T-25-S R-29-E  
EDDY COUNTY, NM

**Underground facilities are  
spatially projected  
and need to be field verified.**

GPS: 32.152057 -103.998431

0 50 100  
Feet

GPS date: 4/18/17 TG  
Drawing date: 4/19/17  
Drafted by: T. Grieco





# XTO Energy – Corral Canyon Federal #4 H

Unit Letter P of Section 5 and Unit Letter A of Section 8, T25S, R29E



Release area, facing southeast

4/8/17



Release area, facing southwest

4/18/17



Release area, facing north

4/18/17



Release area, facing northeast

4/18/17

APR 25 2017

Form C-141  
Revised August 8, 2011

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

RECEIVED  
Submit Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

DAB1711 830029		OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: XTO Energy		Contact: Jacob Foust			
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 432-266-2663			
Facility Name: Coral Canyon Federal Central Tank Battery (API: Coral Canyon Federal #4H)		Facility Type: Exploration and Production			
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-42923	

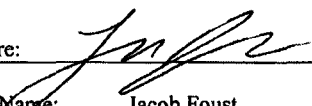
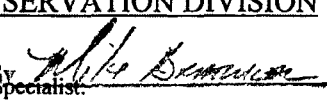
### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
S	5	25S	29E	47	South	156	East	Eddy

Latitude 32.152504 Longitude -103.998535

### NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release 0.69 bo, 12.91 bpw	Volume Recovered 0.45 bo, 1.05 bpw
Source of Release Header	Date and Hour of Occurrence April 12, 2017, Time unknown	Date and Hour of Discovery April 12 2017, 6:00 A.M.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Equipment failure at 8" victaulic header. Header repaired.		
Describe Area Affected and Cleanup Action Taken.* Fluid spilled in a narrow winding path downhill to the southwest approximately 480'. Free standing fluids were recovered. Remediation crew is addressing cleanup.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Jacob Foust		Signed By:  Approved by Environmental Specialist	
Title: EHS Environmental Supervisor		Approval Date: 4/26/17	Expiration Date: N/A
E-mail Address: Bryan.Foust@xtoenergy.com		Conditions of Approval:	
Date: 4/25/2017 Phone: 432-266-2663		See attached	
		Attached <input checked="" type="checkbox"/>	

\* Attach Additional Sheets If Necessary

2RP-4190



April 26, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: XTO CORRAL CANYON

Enclosed are the results of analyses for samples received by the laboratory on 04/21/17 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/18/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP1 @ 1' (H701075-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9460</b>	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	80.8 %	28.3-164							
Surrogate: 1-Chlorooctadecane	82.4 %	34.7-157							

**Sample ID: SP1 @ 4' (H701075-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>448</b>	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	83.4 %	28.3-164							
Surrogate: 1-Chlorooctadecane	88.4 %	34.7-157							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/19/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP1 @ 12' (H701075-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	81.5 %	28.3-164							
Surrogate: 1-Chlorooctadecane	86.1 %	34.7-157							

**Sample ID: SP2 @ 1' (H701075-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	110	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	85.0 %	28.3-164							
Surrogate: 1-Chlorooctadecane	90.1 %	34.7-157							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/18/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP2 @ 4' (H701075-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	84.0 %	28.3-164							
Surrogate: 1-Chlorooctadecane	89.8 %	34.7-157							

**Sample ID: SP2 @ 15' (H701075-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	81.7 %	28.3-164							
Surrogate: 1-Chlorooctadecane	85.7 %	34.7-157							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received: 04/21/2017  
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Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/18/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP3 @ 1' (H701075-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 81.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.2 % 34.7-157

**Sample ID: SP3 @ 4' (H701075-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 77.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.7 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/19/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP3 @ 15' (H701075-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	1.95	97.7	2.00	0.124	
Toluene*	<0.050	0.050	04/26/2017	ND	2.00	100	2.00	0.354	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	2.02	101	2.00	0.136	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	6.06	101	6.00	0.346	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 86.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/19/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP4 @ 1' (H701075-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	36.5	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 73.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 75.8 % 34.7-157

**Sample ID: SP4 @ 4' (H701075-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 74.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 75.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

 Received: 04/21/2017  
 Reported: 04/26/2017  
 Project Name: XTO CORRAL CANYON  
 Project Number: FEDERAL CTB  
 Project Location: EDDY

 Sampling Date: 04/20/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SP5 @ 1' (H701075-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	18.4	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 78.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.9 % 34.7-157

**Sample ID: SP5 @ 4' (H701075-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	04/24/2017	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/24/2017	ND	185	92.4	200	3.56		
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	190	95.0	200	4.34		

Surrogate: 1-Chlorooctane 83.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.3 % 34.7-157

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ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/20/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP5 @ 15' (H701075-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	94.8 %	28.3-164							
Surrogate: 1-Chlorooctadecane	101 %	34.7-157							

**Sample ID: SP6 @ 1' (H701075-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	59.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane		91.7 %	28.3-164						
Surrogate: 1-Chlorooctadecane		96.2 %	34.7-157						

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Celey D. Keene, Lab Director/Quality Manager

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P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/20/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP6 @ 4' (H701075-16)**

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1330</b>	16.0	04/24/2017	ND	416	104	400	3.77		
TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56		
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34		
<hr/>										
Surrogate: 1-Chlorooctane	87.6 %	28.3-164								
Surrogate: 1-Chlorooctadecane	89.0 %	34.7-157								

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Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/20/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP6 @ 15' (H701075-17)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	1.95	97.7	2.00	0.124	
Toluene*	<0.050	0.050	04/26/2017	ND	2.00	100	2.00	0.354	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	2.02	101	2.00	0.136	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	6.06	101	6.00	0.346	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/24/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 93.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.3 % 34.7-157

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Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/20/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP7 @ 1' (H701075-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	87.9 %	28.3-164							
Surrogate: 1-Chlorooctadecane	89.7 %	34.7-157							

**Sample ID: SP7 @ 4' (H701075-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	89.5 %	28.3-164							
Surrogate: 1-Chlorooctadecane	87.3 %	34.7-157							

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Fax To: (575) 396-1429

Received: 04/21/2017  
Reported: 04/26/2017  
Project Name: XTO CORRAL CANYON  
Project Number: FEDERAL CTB  
Project Location: EDDY

Sampling Date: 04/20/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SP7 @ 15' (H701075-20)**

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>656</b>	16.0	04/24/2017	ND	416	104	400	3.77		
TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56		
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34		
Surrogate: 1-Chlorooctane	91.0 %	28.3-164								
Surrogate: 1-Chlorooctadecane	95.7 %	34.7-157								

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Basin Environmental Service Technologies, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
<b>Project Manager:</b> Robbie Runnels		<b>P.O. #:</b>															
<b>Address:</b> P.O. Box 301		<b>Company:</b> XTO															
<b>City:</b> Lovington		<b>Attn:</b> Amy Ruth															
<b>State:</b> NM <b>Zip:</b> 88260		<b>Address:</b>															
<b>Phone #:</b> (575)396-2378		<b>City:</b>															
<b>Fax #:</b> (575)396-1429		<b>State:</b> NM <b>Zip:</b>															
<b>Project #:</b>		<b>Phone #:</b>															
<b>Project Name:</b> XTO Corral Canyon Federal CTB		<b>Fax #:</b>															
<b>Project Location:</b> Eddy		<b>Matrix:</b>															
<b>Sampler Name:</b> Robbie Runnels		<b>Preserv:</b>															
<b>FOR LAB USE ONLY</b>		<b>SAMPLING</b>															
<b>Lab I.D.</b>		<b>DATE</b>		<b>TIME</b>													
<b>Sample I.D.</b>		<b>DATE</b>		<b>TIME</b>													
<b>SP1 @ 1'</b>		4/18/17		11:00													
<b>SP1 @ 4'</b>		4/18/17		11:50													
<b>SP1 @ 12'</b>		4/19/17		11:45													
<b>SP2 @ 1'</b>		4/18/17		13:25													
<b>SP2 @ 4'</b>		4/18/17		13:50													
<b>SP2 @ 15'</b>		4/19/17		13:20													
<b>SP3 @ 1'</b>		4/18/17		14:30													
<b>SP3 @ 4'</b>		4/18/17		14:50													
<b>SP3 @ 15'</b>		4/19/17		14:45													
<b>SP4 @ 1'</b>		4/19/17		15:10													
<b>PLEASE NOTE:</b> Liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		<b>Chloride</b>		<b>TPH (8015B)</b>		<b>BTEX (8021B)</b>											
<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Received By:</b>											
<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Received By:</b>											
<b>Relinquished By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Received By:</b>											
<b>Delivered By: (Circle One)</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>													
<b>Sampler - UPS - Bus - Other:</b>		<b>Cool</b>		<b>Intact</b>													
<b>FORM-006</b>		<b>Revision 1.0</b>		<b>Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476</b>													



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

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<b>Company Name:</b> Basin Environmental Service Technologies, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
<b>Project Manager:</b> Robbie Runnels		<b>P.O. #:</b>													
<b>Address:</b> P.O. Box 301		<b>Company:</b> XTO													
<b>City:</b> Lovington		<b>Attn:</b> Amy Ruth													
<b>State:</b> NM <b>Zip:</b> 88260		<b>Address:</b>													
<b>Phone #:</b> (575)396-2378		<b>City:</b>													
<b>Fax #:</b> (575)396-1429		<b>State:</b> NM <b>Zip:</b>													
<b>Project #:</b>		<b>Phone #:</b>													
<b>Project Name:</b> XTO Corral Canyon Federal CTB		<b>Fax #:</b>													
<b>Project Location:</b> Eddy															
<b>Sampler Name:</b> Robbie Runnels															

FOR LAB USE ONLY		LAB I.D.		Sample I.D.		FOR LAB USE ONLY		LAB I.D.		Sample I.D.		FOR LAB USE ONLY		LAB I.D.		Sample I.D.		FOR LAB USE ONLY		LAB I.D.		Sample I.D.	
11	SP4 @ 4'	g	1																				
12	SP5 @ 1'	g	1																				
13	SP5 @ 4'	g	1																				
14	SP5 @ 15'	g	1																				
15	SP6 @ 1'	g	1																				
16	SP6 @ 4'	g	1																				
17	SP6 @ 15'	g	1																				
18	SP7 @ 1'	g	1																				
19	SP7 @ 4'	g	1																				
20	SP7 @ 15'	g	1																				

PLEASE NOTE: Liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>Date:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>
				<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b>
<b>REMARKS:</b>				

Relinquished By: \_\_\_\_\_ Date: 4-21-17 Received By: \_\_\_\_\_ Date: 4-21-17

Delivered By: (Circle One) \_\_\_\_\_ Date: 3:40 \_\_\_\_\_

Sampler - UPS - Bus - Other: \_\_\_\_\_ Date: 1:40 \_\_\_\_\_

Sample Condition: ☐ Cool ☐ Intact ☐ Yes ☐ No

CHECKED BY: \_\_\_\_\_ (Initials)

Please email results to pm@basinenr.com, amy\_ruth@xtoenergy.com, hold SP1@12', SP2,3,5,6,7 @15', and SP4 @ 4' for BTEX

Rush!!