



PO Box 301 | Lovington, NM 88260 | Phone 575.396.2378

March 22, 2018

Attn: Crystal Weaver

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

**RE: Request for Closure
XTO Energy Inc. – Poker Lake Unit #430H
UL/B sec. 21 T24S R30E
API No. 30-015-42374
2RP-4583**

Ms. Weaver:

XTO Energy Inc. (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 eleven (11) miles east of Malaga, New Mexico at Unit Letter B of Section 21 in Township 24 South of Range 30 East (Figure 1). The latitude of the release location is 32.207958 and the longitude is -103.885164. This site is located in an area where groundwater can be anticipated to found at a depth greater than two-hundred fifty (250) feet below ground surface (bgs) (Figure 2).

On January 12th, 2018, XTO discovered a release of approximately ten and one-half (10.5) barrels (bbls) of produced water and crude oil when a buried steel flow-line developed a hole due to corrosion. The line was exposed and clamped then later repaired. An estimated ten (10) bbls of produced water mixed with crude oil were recovered. The release impacted an approximate eight-hundred sixty-five (865) square feet (ft²) of lease road. The New Mexico Oil Conservation Division (NMOCD) was notified of the release on January 12th, 2018, and an initial Release Notification and Corrective Action form (C-141) was submitted to NMOCD January 23rd, 2018, for approval (Appendix A). The C-141 was approved on the same day.

Basin personnel were on site January 26th, 2018, to begin sampling and delineation activities. Initial surface soil sample points were established within the noticeable impacted area. Three (3) soil sample points (SP1, SP2, SP3) were established and advanced vertically for purposes of delineation. (Figure 3) Discrete soil samples were retrieved at the surface and at 2' bgs. The soils

samples were submitted to an approved NMOCD commercial laboratory (Cardinal Laboratories in Hobbs, NM [Cardinal]) for concentration analyses of chloride, Gas Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO) [TPH]. Laboratory analyses confirmed that delineation for chloride and TPH was reached at 2' bgs. (Appendix B).

Basin began remediation activities on February 27th, 2018. The impacted area was excavated to a total depth of 2' bgs and confirmatory samples were retrieved along with excavation wall soil samples to ensure the impacted area was remediated horizontally as well as vertically. The discrete soil samples were submitted to Cardinal for chloride, TPH and Benzene, Toluene, ethyl-benzene, xylenes (BTEX) concentrations. Analytical results confirmed that the impacted soil was removed vertically and horizontally to below the recommended remediation action levels (RRAL) of 5,000 mg/kg for TPH, 10 mg/kg for Benzene, and 50 mg/kg for BTEX. While there is no set guideline level for chloride concentration in the RRAL, it is assumed to be 600 mg/kg. Chloride concentration levels for all submitted samples were below the assumed action level.

Discrete soil samples from the XTO, Poker Lake Unit #430H release site were analyzed by an NMOCD approved laboratory, and concentrations of BTEX, chloride and TPH were below the RRAL established for the site. XTO via Basin requests site closure to the Poker Lake Unit #430H release site.

A compilation of all samples submitted to Cardinal is provided as "Table". Photo documentation of the release area and remediation can be found in Appendix C.

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,



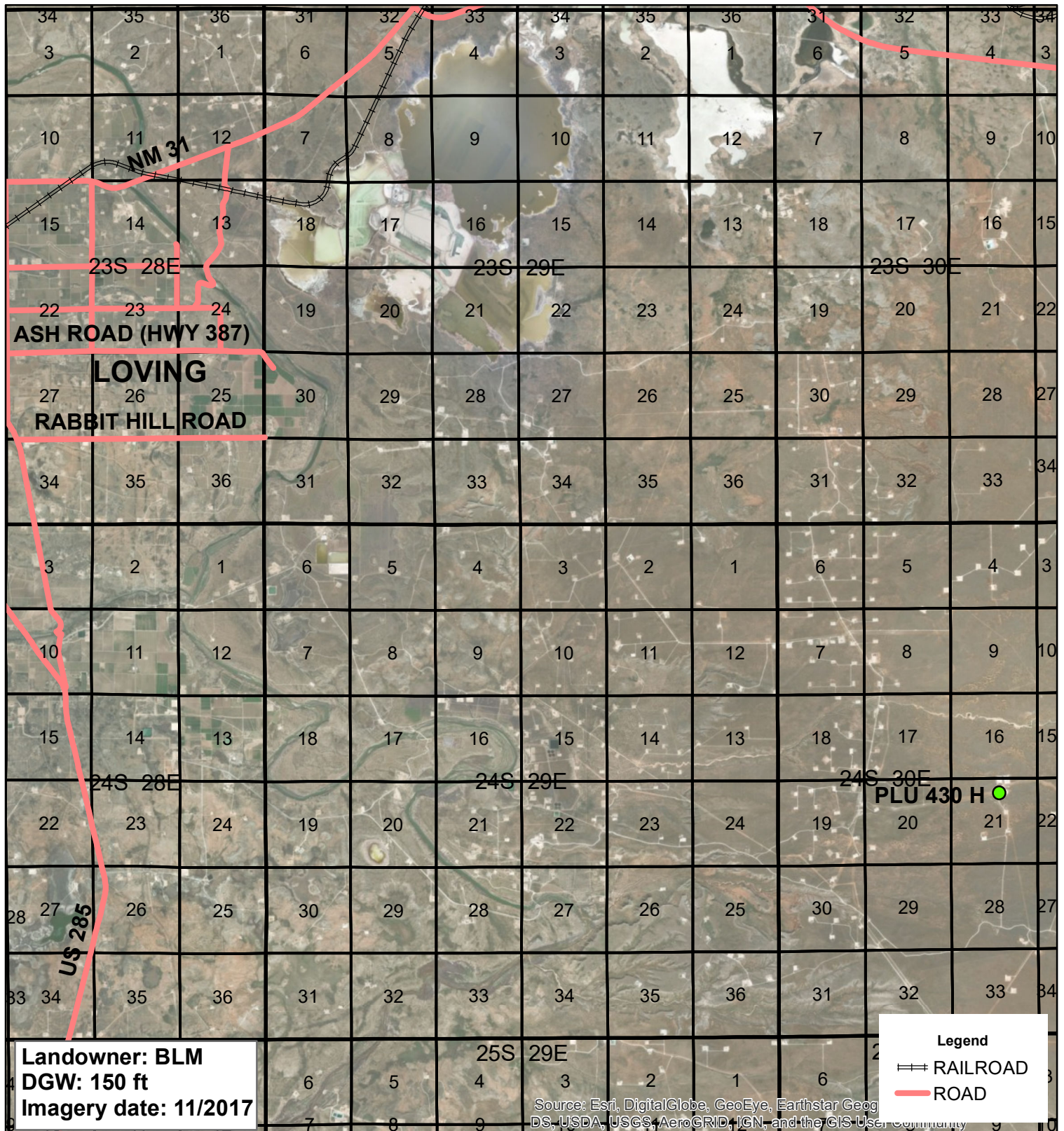
Robbie Runnels
Project Manager
Basin Environmental Service Technologies
(575) 396-2378

Attachments:

Figure 1 – Site Location Map
Figure 2 – Depth to Groundwater
Figure 3 - Initial Sampling Data
Table – Soil Chemistry Table
Appendix A – Final C-141
Appendix B – Laboratory Analyses
Appendix C – Photo Documentation

cc. Shelly Tucker
Bureau of Land Management
602 E. Greene Street
Carlsbad, NM 88220

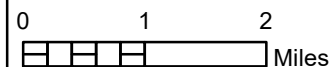
FIGURES



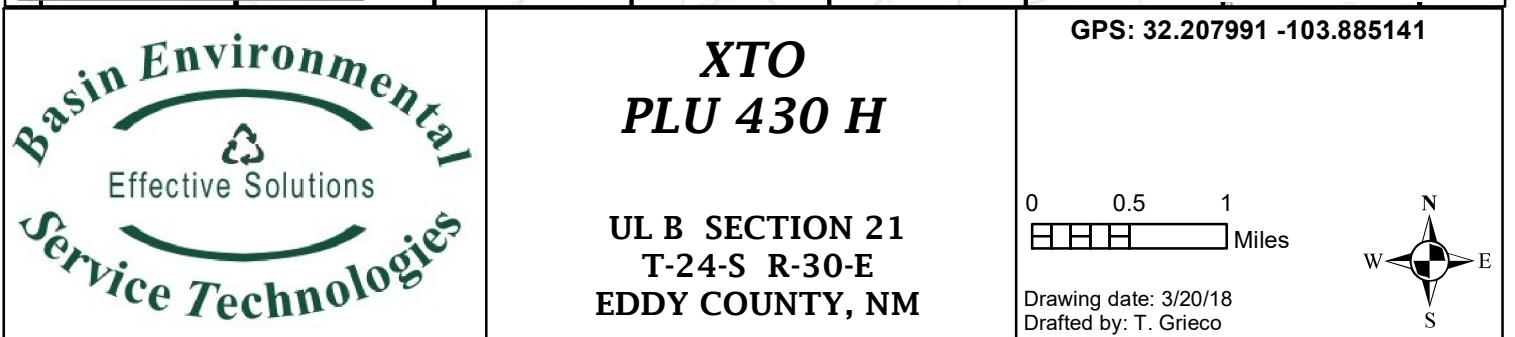
***XTO
PLU 430 H***

**UL B SECTION 21
T-24-S R-30-E
EDDY COUNTY, NM**

GPS: 32.207991 -103.885141



Drawing date: 1/30/18
Drafted by: T. Grieco



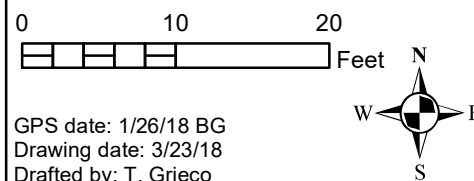
Initial and Excavation Sampling



XTO
PLU 430 H

UL B SECTION 21
T-24-S R-30-E
EDDY COUNTY, NM

GPS: 32.207991 -103.885141



TABLES

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL
XTO
POKER LAKE UNIT #430H
EDDY COUNTY, NEW MEXICO
UL B SEC 21, T-24-S, R-30-E
NMOCD REFERENCE #: 2RP-4583

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₆ (mg/Kg)	4500 CI-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₆ (mg/Kg)		
SP1 @ Surface	0'	1/26/2018	In-Situ	-	-	-	-	-	147	2230	593	2,970	28,400
SP1 @ 2'	2'	1/26/2018	In-Situ	-	-	-	-	-	<10.0	<10.0	10.0	10.0	384
SP1 @ 3'	3'	1/26/2018	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	176
SP2 @ Surface	0'	1/26/2018	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	23,600
SP2 @ 2'	2'	1/26/2018	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	48
SP3 @ Surface	0'	1/26/2018	In-Situ	-	-	-	-	-	57.8	4260	896	5213.8	31,600
SP3 @ 2'	2'	1/26/2018	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
West Wall @ 2'	2'	2/27/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
North Wall @ 2'	2'	2/27/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16
South Wall @ 2'	2'	2/27/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
East Wall @ 2'	2'	3/6/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80
Floor 1 @ 2'	2'	2/27/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
Floor 2 @ 2'	2'	3/6/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
NMOCD Regulatory Standard				10				50				5,000	600

APPENDICES

APPENDIX –A

C-141

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company XTO Energy	Contact Amy Ruth
Address 522 W. Mermod, Suite 704, Carlsbad, NM 88220	Telephone No. 575-887-7329
Facility Name Poker Lake Unit #430H	Facility Type Exploration and Production

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-42374
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	21	24S	30E	905	North	2350	East	Eddy

Latitude 32.207958 Longitude -103.885164 NAD83

NATURE OF RELEASE

Type of Release Crude oil and Produced Water	Volume of Release 10.5 bbl	Volume Recovered 10 bbls
Source of Release Flow line	Date and Hour of Occurrence 1/12/18, time unknown	Date and Hour of Discovery 1/12/18, 2 p.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

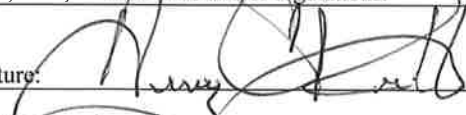
Describe Cause of Problem and Remedial Action Taken.*

A buried steel flow line developed a hole due to corrosion. The line was exposed and clamped until it can be repaired.

Describe Area Affected and Cleanup Action Taken.*

The leak affected approximately 865 square feet of lease road and all free-standing fluids were recovered. The impacted area was remediated to below recommended remediation action levels for chloride, TPH, and BTEX. Location was backfilled and compacted with clean, non-impacted soils and contoured to the surrounding area.

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: Amy Ruth		Approved by Environmental Specialist:	
Title: Environmental Coordinator		Approval Date:	Expiration Date:
E-mail Address: Amy_Ruth@XTOenergy.com		Conditions of Approval:	
Date: 3/23/2018 Phone: 432-661-0571			
		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

APPENDIX – B

Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 02, 2018

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #430 H

Enclosed are the results of analyses for samples received by the laboratory on 01/30/18 12:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/30/2018	Sampling Date:	01/26/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	PLU #430 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: SP 1 @ S (H800317-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	28400	16.0	01/31/2018	ND	416	104	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*	147	50.0	01/31/2018	ND	198	99.0	200	3.27		
DRO >C10-C28*	2230	50.0	01/31/2018	ND	197	98.6	200	9.75		
EXT DRO >C28-C36	593	50.0	01/31/2018	ND						
<hr/>										
Surrogate: 1-Chlorooctane	132 %	41-142								
Surrogate: 1-Chlorooctadecane	154 %	37.6-147								

Sample ID: SP 1 @ 2' (H800317-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	01/31/2018	ND	416	104	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	01/31/2018	ND	198	99.0	200	3.27		
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	197	98.6	200	9.75		
EXT DRO >C28-C36	10.0	10.0	01/31/2018	ND						
<hr/>										
Surrogate: 1-Chlorooctane	109 %	41-142								
Surrogate: 1-Chlorooctadecane	107 %	37.6-147								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	01/30/2018	Sampling Date:	01/26/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	PLU #430 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: SP 1 @ 3' (H800317-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/31/2018	ND	416	104	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	01/31/2018	ND	198	99.0	200	3.27	
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	197	98.6	200	9.75	
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND					
Surrogate: 1-Chlorooctane	100 %	41-142							
Surrogate: 1-Chlorooctadecane	99.8 %	37.6-147							

Sample ID: SP 2 @ S (H800317-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23600	16.0	01/31/2018	ND	416	104	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	01/31/2018	ND	198	99.0	200	3.27		
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	197	98.6	200	9.75		
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND						
Surrogate: 1-Chlorooctane	105 %	41-142								
Surrogate: 1-Chlorooctadecane	103 %	37.6-147								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/30/2018	Sampling Date:	01/26/2018
Reported:	02/02/2018	Sampling Type:	Soil
Project Name:	PLU #430 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: SP 2 @ 2' (H800317-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/31/2018	ND	416	104	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	01/31/2018	ND	198	99.0	200	3.27		
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	197	98.6	200	9.75		
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND						
Surrogate: 1-Chlorooctane	121 %	41-142								
Surrogate: 1-Chlorooctadecane	118 %	37.6-147								

Sample ID: SP 3 @ S (H800317-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	31600	16.0	01/31/2018	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	57.8	50.0	01/31/2018	ND	198	99.0	200	3.27		
DRO >C10-C28*	4260	50.0	01/31/2018	ND	197	98.6	200	9.75		
EXT DRO >C28-C36	896	50.0	01/31/2018	ND						
Surrogate: 1-Chlorooctane	105 %	41-142								
Surrogate: 1-Chlorooctadecane	163 %	37.6-147								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/30/2018
 Reported: 02/02/2018
 Project Name: PLU #430 H
 Project Number: NONE GIVEN
 Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 01/26/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H800317-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/31/2018	ND	416	104	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	01/31/2018	ND	198	99.0	200	3.27		
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	197	98.6	200	9.75		
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND						
Surrogate: 1-Chlorooctane	120 %	41-142								
Surrogate: 1-Chlorooctadecane	116 %	37.6-147								

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (505) 353-2470		BILL TO	
Company Name: Basin Environmental Service Technologies, LLC		P.O. #:	
Project Manager: Robbie Runnels		Company: XTO Energy	
Address: P.O. Box 301		Attn: Amy Ruth	
City: Lovington		Address:	
State: NM Zip: 88260		City:	
Phone #: (575)396-2378		Fax #: (575)396-1429	
Project #:		Project Owner: XTO Energy	
Project Name: PLU 430H		State: NM Zip: 88260	
Project Location: Eddy		Phone #:	
Sampler Name: Becky Griffin		Fax #:	
		MATRIX	
		PRESERV.	
		SAMPLING	
FOR LAB USE ONLY			

[illegible]

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Relinquished By:		Date:	Received By:	Fax Result:
Reinquinshed By:		Time:	Remarks:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Time:		Date:		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	(Initials)		

Please email results to pm@basinenv.com, amy_ruth@xtoenergy.com

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 12, 2018

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #430 H

Enclosed are the results of analyses for samples received by the laboratory on 03/01/18 10:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 03/01/2018
 Reported: 03/12/2018
 Project Name: POKER LAKE UNIT #430 H
 Project Number: NONE GIVEN
 Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 02/27/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST WALL @ 2' (H800606-01)

BTEX 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	03/08/2018	ND	2.11	105	2.00	1.42	
Toluene*	<0.050	0.050	03/08/2018	ND	2.06	103	2.00	0.754	
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	1.98	99.1	2.00	0.734	
Total Xylenes*	<0.150	0.150	03/08/2018	ND	5.96	99.3	6.00	0.529	
Total BTEX	<0.300	0.300	03/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	32.0	16.0	03/01/2018	ND	432	108	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	03/01/2018	ND	215	107	200	1.73	
DRO >C10-C28*	<10.0	10.0	03/01/2018	ND	201	101	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	03/01/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 03/01/2018
 Reported: 03/12/2018
 Project Name: POKER LAKE UNIT #430 H
 Project Number: NONE GIVEN
 Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 02/27/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH WALL @ 2' (H800606-02)

BTEx 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	03/08/2018	ND	2.11	105	2.00	1.42		
Toluene*	<0.050	0.050	03/08/2018	ND	2.06	103	2.00	0.754		
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	1.98	99.1	2.00	0.734		
Total Xylenes*	<0.150	0.150	03/08/2018	ND	5.96	99.3	6.00	0.529		
Total BTEX	<0.300	0.300	03/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	03/01/2018	ND	432	108	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	03/01/2018	ND	215	107	200	1.73	
DRO >C10-C28*	<10.0	10.0	03/01/2018	ND	201	101	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	03/01/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2018
 Reported: 03/12/2018
 Project Name: POKER LAKE UNIT #430 H
 Project Number: NONE GIVEN
 Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 02/27/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH WALL @ 2' (H800606-03)

BTEx 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	03/08/2018	ND	2.11	105	2.00	1.42		
Toluene*	<0.050	0.050	03/08/2018	ND	2.06	103	2.00	0.754		
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	1.98	99.1	2.00	0.734		
Total Xylenes*	<0.150	0.150	03/08/2018	ND	5.96	99.3	6.00	0.529		
Total BTEx	<0.300	0.300	03/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/01/2018	ND	432	108	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	03/01/2018	ND	215	107	200	1.73	
DRO >C10-C28*	<10.0	10.0	03/01/2018	ND	201	101	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	03/01/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	03/01/2018	Sampling Date:	02/27/2018
Reported:	03/12/2018	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT #430 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: FLOOR #1 @ 2' (H800606-04)

BTEx 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	03/08/2018	ND	2.11	105	2.00	1.42		
Toluene*	<0.050	0.050	03/08/2018	ND	2.06	103	2.00	0.754		
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	1.98	99.1	2.00	0.734		
Total Xylenes*	<0.150	0.150	03/08/2018	ND	5.96	99.3	6.00	0.529		
Total BTEx	<0.300	0.300	03/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/01/2018	ND	432	108	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	03/01/2018	ND	215	107	200	1.73	
DRO >C10-C28*	<10.0	10.0	03/01/2018	ND	201	101	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	03/01/2018	ND					

Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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

BILL TO

ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC

Project Manager: Robbie Runnels

Address: P.O. Box 301

City: Lovington State: NM Zip: 88260

Phone #: (575)396-2378 Fax #: (575)396-1429

Project #: Project Owner: XTO Energy

Project Name: Poker Lake Unit #430 H

Project Location: Eddy

Sampler Name: Jimmy Hand

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address:

City:

State: NM Zip: 88260

Phone #:

Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL												
1	West Wall @ 2'	g	1			X						2/27/18	10:14	X	X	X	X						
2	North Wall @ 2'	g	1			X						2/27/18	10:25	X	X	X	X						
3	South Wall @ 2'	g	1			X						2/27/18	10:30	X	X	X	X						
4	Floor # 1 @ 2'	g	1			X						2/27/18	10:19	X	X	X	X						

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Relinquished By: Jimmy Hand

Date: 2/28/18

Time: 9:00 AM

Date: 3/1/18

Time: 8:36

Relinquished By: Jimmy Hand

Date: 3/1/18

Time: 8:25

Relinquished By: Jimmy Hand

REMARKS:

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

Please email results to pm@basinenvy.com, amy_ruth@xtoenergy.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 14, 2018

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: POKER LAKE UNIT #430 H

Enclosed are the results of analyses for samples received by the laboratory on 03/07/18 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 03/07/2018
 Reported: 03/14/2018
 Project Name: POKER LAKE UNIT #430 H
 Project Number: NONE GIVEN
 Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 03/06/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FLOOR 2 @ 2' (H800678-01)

BTEX 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	03/12/2018	ND	2.00	100	2.00	1.41	
Toluene*	<0.050	0.050	03/12/2018	ND	2.01	100	2.00	1.56	
Ethylbenzene*	<0.050	0.050	03/12/2018	ND	1.97	98.6	2.00	0.932	
Total Xylenes*	<0.150	0.150	03/12/2018	ND	6.06	101	6.00	0.998	
Total BTEX	<0.300	0.300	03/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	<16.0	16.0	03/09/2018	ND	480	120	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	03/08/2018	ND	207	103	200	1.63	
DRO >C10-C28*	<10.0	10.0	03/08/2018	ND	193	96.7	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	03/08/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 03/07/2018
 Reported: 03/14/2018
 Project Name: POKER LAKE UNIT #430 H
 Project Number: NONE GIVEN
 Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 03/06/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW @ 2' (H800678-02)

BTEX 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	03/12/2018	ND	2.00	100	2.00	1.41	
Toluene*	<0.050	0.050	03/12/2018	ND	2.01	100	2.00	1.56	
Ethylbenzene*	<0.050	0.050	03/12/2018	ND	1.97	98.6	2.00	0.932	
Total Xylenes*	<0.150	0.150	03/12/2018	ND	6.06	101	6.00	0.998	
Total BTEX	<0.300	0.300	03/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	80.0	16.0	03/09/2018	ND	480	120	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	03/08/2018	ND	207	103	200	1.63	
DRO >C10-C28*	<10.0	10.0	03/08/2018	ND	193	96.7	200	9.28	
EXT DRO >C28-C36	<10.0	10.0	03/08/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

APPENDIX – C

Photo Documentation

XTO Energy – Poker Lake Unit #430H

Unit Letter B of Section 21, T24S, R30E



Release area



Release area



Backfilling area



Remediation complete

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 395062

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 395062
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	10/23/2024