



PO Box 301 | Lovington, NM 88260 | Phone 575.396.2378

October 2, 2017

Attn: Mike Bratcher

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

**RE: Termination Request Report
XTO Energy Inc. – Poker Lake Unit 213 Battery
UL/P sec. 18 T24S R30E
API No. 30-015-33859
2RP-4243, 2RP-4265**

Mr. Bratcher:

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 nine and two tenths (9.2) miles southeast of Malaga, New Mexico at Unit Letter P of Section 18 Township 24 South of Range 30 East. This site is located in an area where groundwater is anticipated to be at approximately one-hundred sixty-five (165) +/- feet below ground surface (bgs) (See Figure 1).

On May 27th, 2017, XTO discovered a release of approximately two (2) barrels (bbls) of crude oil and an estimated three (barrels) of produced water when the treater caught fire. No product from the release was recovered. Approximately three hundred (300) square feet (ft²) of pasture was impacted by fluids and an additional twenty-seven thousand five hundred (27,500) ft² of pasture was impacted by misted crude oil. New Mexico Oil Conservation Division (NMOCD) was notified of the release on May 28th, 2017, and an initial C-141 was submitted to NMOCD on June 8th, 2017, for approval.

Basin personnel were on site June 1st, 2017 to apply Micro-blaze® to the pasture area as well as the impacted area within the secondary containment.

On June 18th, 2017, XTO discovered an additional release of approximately twelve (12) bbls of crude oil when a valve was not shut off from the skim pump. An estimated ten (10) bbls were recovered. The release was entirely contained within the secondary containment of the facility.

Approximately two-thousand six-hundred (2,600) ft² of the containment area was impacted. New Mexico Oil Conservation Division (NMOCD) was notified of the release on June 28th, 2017, and an initial C-141 was submitted to NMOCD on June 28th, 2017, for approval. (See Appendix A)

Basin personnel were on site beginning July 29th, 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. (See Figure 2).

Basin personnel were on site to begin remediation activities on August 22nd, 2017. During remediation, soil samples were retrieved in the release area, both horizontally and vertically. The samples were delivered to an approved NMOCD commercial laboratory for confirmatory analysis. The analytical report details the concentration of chloride, Benzene, Toluene, Ethyl-benzene, Xylenes (BTEX) and TPH were below the NMOCD recommended remediation action limits (RRAL). In addition, the NMOCD does not have a specific RRAL for chloride concentrations, but all sample points in the floor of the excavation were delineated to below 250 mg/kg. Horizontal delineation was completed to below 750 mg/kg.

The release area was excavated from a depth of one-half (0.5) feet around the area of Sample Point 1 to a depth of seven (7) feet around Sample Point 3. The areas around Sample Point 2 and Sample Point 4 were excavated to a depth of four (4) feet. Sample Point 4, Sample Point 5, Sample Point 7, and Sample Point 8 were excavated to a depth of five (5) feet.

The excavation was then backfilled with clean, non-impacted soils, compacted, and contoured to the surrounding area.

The impacted area in the pasture will be disked and seeded with a landowner approved seed mix of native vegetation free from noxious and invasive species at a time conducive for germination.

Horizontal and vertical soil samples from the XTO, Poker Lake Unit 213 Battery release site were analyzed by an NMOCD approved laboratory, and concentrations of chloride, BTEX, and TPH were below the RRAL established for the site (Appendix B). XTO via Basin requests site closure to the Poker Lake Unit 213 Battery release site.

Photo documentation of the release 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) 393-2967

Attachments:

Figure 1 – Site Location Map

Figure 2 - Initial sampling Data

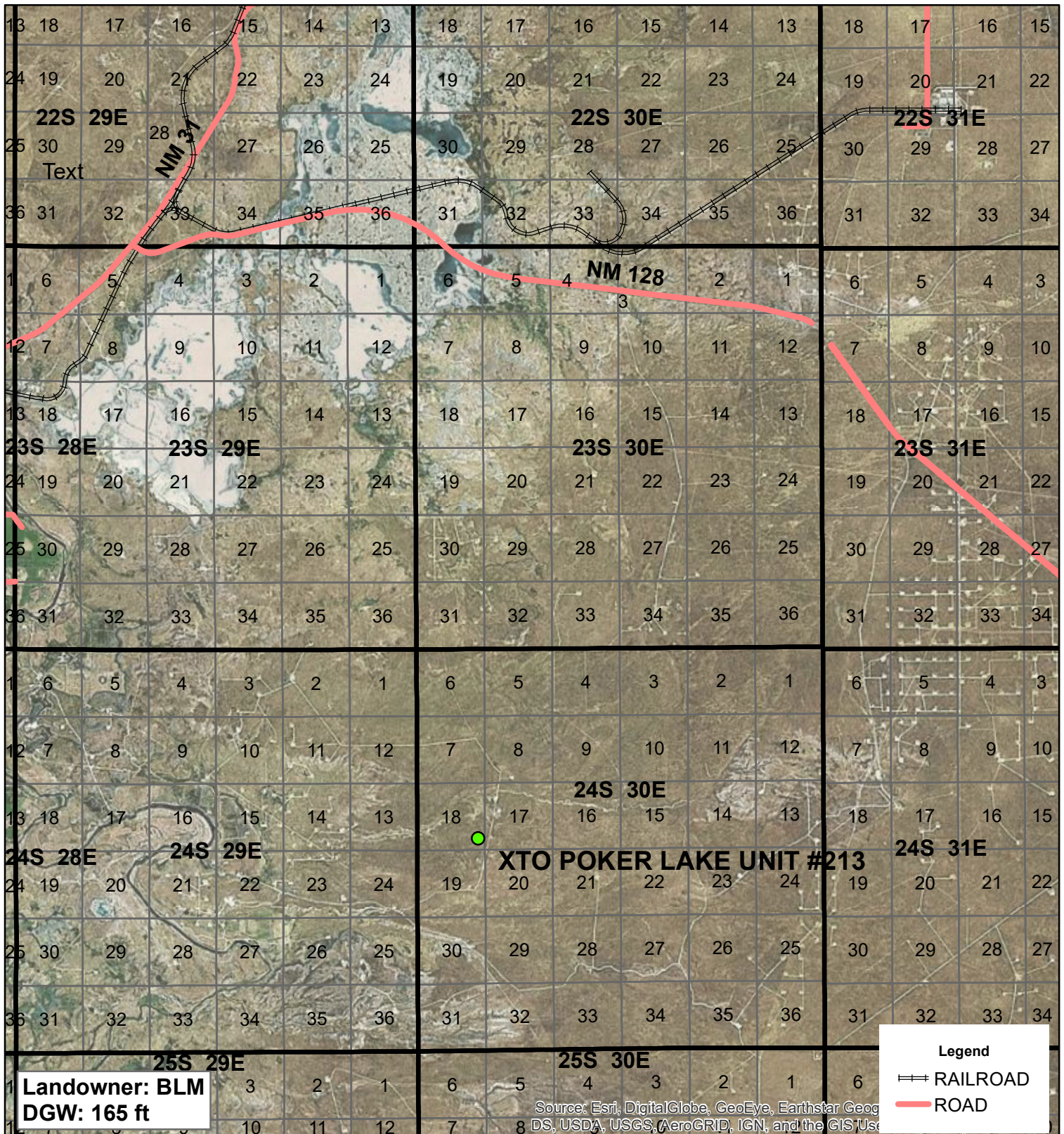
Appendix A – Initial C-141

Appendix B – Laboratory Analysis

Appendix C – Photo Documentation

FIGURES

Geographic Location



XTO POKER LAKE UNIT #213

UL P SECTION 18
P-24-S R-30-E
EDDY COUNTY, NM

GPS: 32.212792 -103.913928

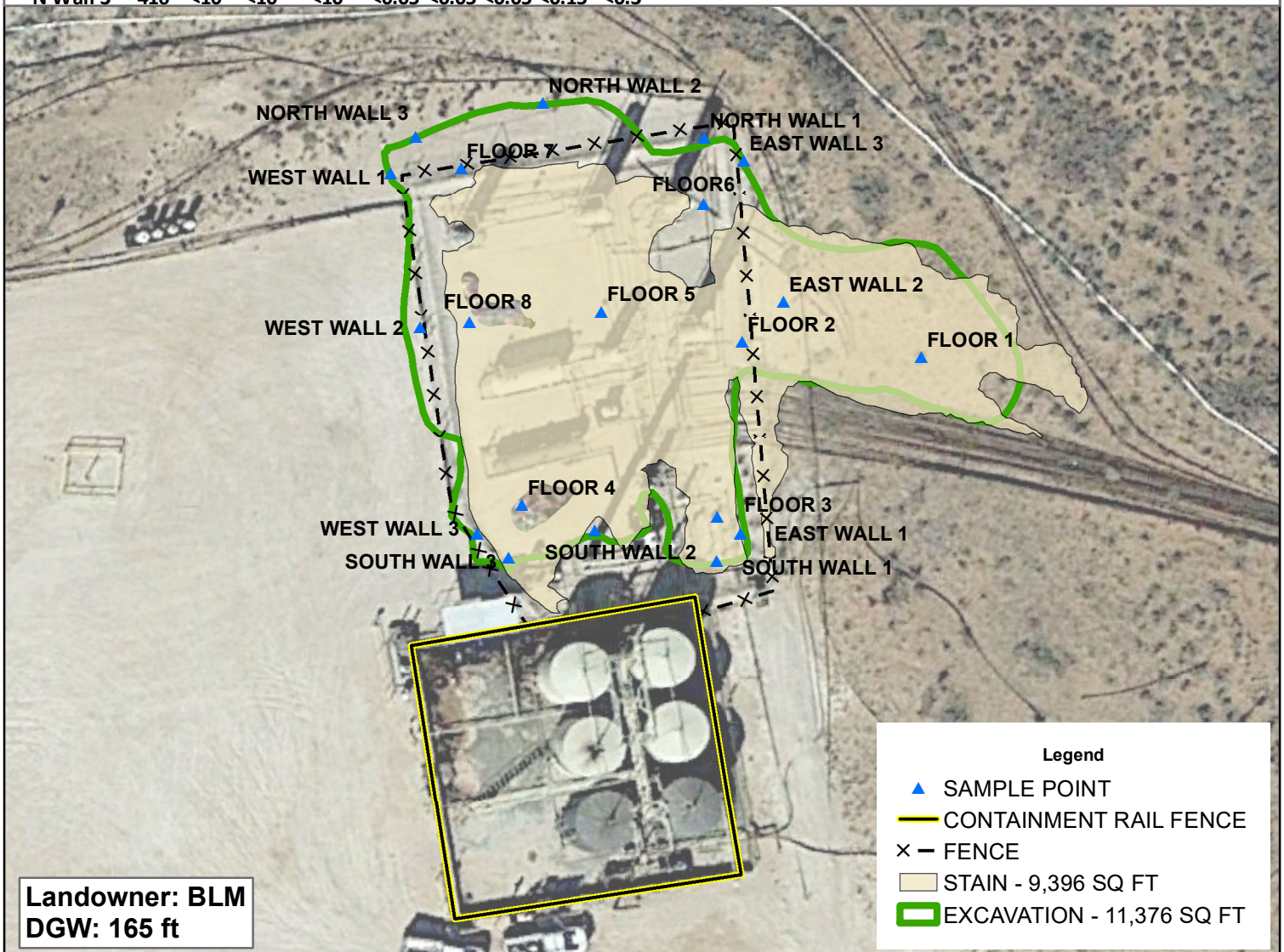
0 1 2
Miles

Drawing date: 7/31/17
Drafted by: T. Grieco



Excavation

Sample	Cl-	GRO	DRO	EXT DRO	B	T	E	X	TOTAL	Sample	Cl-	GRO	DRO	EXT DRO	B	T	E	X	TOTAL
Floor 1 @ .5'	<16	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	W Wall 1	112	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Floor 2 @ 4'	48	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	W Wall 2	192	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Floor 3 @ 7'	96	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	W Wall 3	160	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Floor 4 @ 5'	160	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										
Floor 5 @ 5'	64	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	S Wall 1	736	<10	223	75.7	<0.05	<0.05	<0.05	<0.15	<0.3
Floor 6 @ 4'	128	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	S Wall 2	128	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Floor 7 @ 5'	96	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	S Wall 3	96	<10	130	58.4	<0.05	<0.05	<0.05	<0.15	<0.3
Floor 8 @ 5'	592	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										
Floor 8 @ 8'	128									E Wall 1	624	<10	224	96.9	<0.05	<0.05	<0.05	<0.15	<0.3
										E Wall 2	112	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
										E Wall 3	128	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
N Wall 1	288	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										
N Wall 2	272	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										
N Wall 3	416	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										



XTO POKER LAKE UNIT #213

UL P SECTION 18
T-24-S R-30-E
EDDY COUNTY, NM

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

GPS: 32.212792 -103.913928

0 25 50
Feet

GPS date: 7/28/17 TG, 8/25/17 MT

Drawing date: 8/31/17

Drafted by: T. Grieco



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 August 8, 2011

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 213 Battery	Facility Type Exploration and Production	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-33859

LOCATION OF RELEASE

Unit Letter P	Section 18	Township 24S	Range 30E	Feet from the 860	North/South Line South	Feet from the 660	East/West Line East	County Eddy
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Latitude 32.212856 Longitude -103.913909

NATURE OF RELEASE

Type of Release: Fire (crude oil and produced water)	Volume of Release: 1.96 BPW, 3.39 bbls oil	Volume Recovered: None
Source of Release Heater-treater	Date and Hour of Occurrence: 5/27/17, Unknown	Date and Hour of Discovery: 5/27/17, 7:30 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Crystal Weaver (NMOCD), Jim Amos, Shelly Tucker (BLM)	
By Whom? Jacob Foust	Date and Hour: 5/28/17, 11:00 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A


Describe Cause of Problem and Remedial Action Taken.*

The battery's main heater-treater ignited. The fire department was called and all the wells feeding into the battery were shut in. Estimating approximately 17 bbls of crude oil (in addition to the amount in the soil listed above) were lost to the fire from the main heater-treater. The fire was extinguished at 11:30 p.m.

Describe Area Affected and Cleanup Action Taken.*

The main heater-treater and nearby equipment were damaged. Approximately 300 ft² of pasture immediately east of the vessel containment area were affected by the fire and 27,500 ft² of pasture were affected by misted crude oil. Micro-Blaze® was applied to the affected pasture on June 1, 2017. The facility was torn down and fully remediated with contaminated soils taken to an NMOCD approved facility with soil samples being retrieved and analyzed at an NMOCD approved laboratory. Clean non-impacted imported soils were brought back in and the area was compacted and contoured to the surrounding area. A detailed report of the remediation activities has been submitted as Poker Lake Unit 213 Termination Request.

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: 
Printed Name: Amy Ruth
Title: EHS Remediation Specialist
E-mail Address: ACRuth@basspct.com xtoenergy.com
Date: 10-24-17 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

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

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1220 South St. Francis Dr.
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Form C-141
Revised August 8, 2011

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 213 Battery	Facility Type Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-33859
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LOCATION OF RELEASE

Unit Letter P	Section 18	Township 24S	Range 30E	Feet from the 860	North/South Line South	Feet from the 660	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.212856 Longitude -103.913909

NATURE OF RELEASE

Type of Release: Crude oil	Volume of Release: 12.3 bbls	Volume Recovered: 10 bbls
Source of Release - Free water knockout	Date and Hour of Occurrence: 6/18/17, Unknown in a.m.	Date and Hour of Discovery: 6/18/17, 10:00 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.	

If a Watercourse was Impacted, Describe Fully.*
N/A

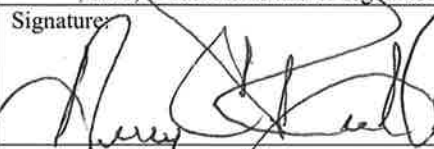
Describe Cause of Problem and Remedial Action Taken.*

The skim pump was turned on, sending oil into the flow line. A valve was not shut off on the battery side, causing oil to spill onto the ground. The valve was shut in and locked.

Describe Area Affected and Cleanup Action Taken.*

Approximately 2,600 ft² inside the caliche containment was impacted. The release was fully contained within the secondary containment berm. The facility was torn down and fully remediated with contaminated soils taken to an NMOCD approved facility with soil samples being retrieved and analyzed at an NMOCD approved laboratory. Clean non-impacted imported soils were brought back in and the area was compacted and contoured to the surrounding area. A detailed report of the remediation activities has been submitted as Poker Lake Unit 213 Termination Request that is also associated with 2RP-4243.

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: EHS Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address: ACRuth@basspet.com xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10-24-17 Phone: 432-661-0571		

* Attach Additional Sheets If Necessary

APPENDIX – B

Analytical Reports



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

August 24, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 213

Enclosed are the results of analyses for samples received by the laboratory on 08/23/17 14:45.

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.

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

Analytical Results For:

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

Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 1 @ 0.5' (H702242-01)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 85.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.6 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 2 @ 4' (H702242-02)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 95.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.4 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 3 @ 7' (H702242-03)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	96.0	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 92.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.6 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 4 @ 5' (H702242-04)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	160	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 89.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.8 % 34.7-157

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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: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 5 @ 5' (H702242-05)

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	08/24/2017	ND	2.14	107	2.00	2.73		
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81		
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83		
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92		
Total BTEx	<0.300	0.300	08/24/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	64.0	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 116 % 34.7-157

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Fax To: (575) 396-1429

Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 6 @ 4' (H702242-06)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 98.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 7 @ 5' (H702242-07)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	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	96.0	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 95.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 100 % 34.7-157

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Received:	08/23/2017	Sampling Date:	08/22/2017
Reported:	08/24/2017	Sampling Type:	Soil
Project Name:	PLU 213	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: FLOOR 8 @ 5' (H702242-08)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	592	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 78.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.2 % 34.7-157

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Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NW1 (H702242-09)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTEX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 92.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.3 % 34.7-157

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

Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NW2 (H702242-10)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTEx	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	272	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 86.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.5 % 34.7-157

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P.O. Box 301
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Fax To: (575) 396-1429

Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NW3 (H702242-11)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	416	16.0	08/24/2017	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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 92.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.4 % 34.7-157

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

Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: WW1 (H702242-12)

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	08/24/2017	ND	2.14	107	2.00	2.73		
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81		
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83		
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92		
Total BTEx	<0.300	0.300	08/24/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	112	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 85.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.7 % 34.7-157

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Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: WW2 (H702242-13)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	192	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 93.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.1 % 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: 08/23/2017
 Reported: 08/24/2017
 Project Name: PLU 213
 Project Number: NONE GIVEN
 Project Location: XTO ENERGY - EDDY CO NM

 Sampling Date: 08/22/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WW3 (H702242-14)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTEX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	160	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 97.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 111 % 34.7-157

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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: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SW1 (H702242-15)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	736	16.0	08/24/2017	ND	432	108	400	3.64		

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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	223	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	75.7	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 99.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 119 % 34.7-157

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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:	08/23/2017	Sampling Date:	08/22/2017
Reported:	08/24/2017	Sampling Type:	Soil
Project Name:	PLU 213	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: SW2 (H702242-16)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTEX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	128	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 92.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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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: 08/23/2017
Reported: 08/24/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/22/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SW3 (H702242-17)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	96.0	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/23/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	130	10.0	08/23/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	58.4	10.0	08/23/2017	ND					

Surrogate: 1-Chlorooctane 91.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 113 % 34.7-157

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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:	08/23/2017	Sampling Date:	08/22/2017
Reported:	08/24/2017	Sampling Type:	Soil
Project Name:	PLU 213	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: EW1 (H702242-18)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTEX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	624	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/24/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	224	10.0	08/24/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	96.9	10.0	08/24/2017	ND					

Surrogate: 1-Chlorooctane 92.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 123 % 34.7-157

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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:	08/23/2017	Sampling Date:	08/22/2017
Reported:	08/24/2017	Sampling Type:	Soil
Project Name:	PLU 213	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: EW2 (H702242-19)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/24/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/24/2017	ND					

Surrogate: 1-Chlorooctane 98.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 107 % 34.7-157

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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:	08/23/2017	Sampling Date:	08/22/2017
Reported:	08/24/2017	Sampling Type:	Soil
Project Name:	PLU 213	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	XTO ENERGY - EDDY CO NM		

Sample ID: EW3 (H702242-20)

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	08/24/2017	ND	2.14	107	2.00	2.73	
Toluene*	<0.050	0.050	08/24/2017	ND	1.97	98.7	2.00	1.81	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	2.00	99.8	2.00	1.83	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.94	99.0	6.00	1.92	
Total BTX	<0.300	0.300	08/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	16.0	08/24/2017	ND	432	108	400	3.64	

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	08/24/2017	ND	185	92.4	200	2.64	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	187	93.7	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	08/24/2017	ND					

Surrogate: 1-Chlorooctane 92.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.8 % 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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ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST									
Project Manager: Robbie Runnels		P.O. #:											
Address: P.O. Box 301		Company: XTO Energy											
City: Lovington		Attn: Amy Ruth											
Phone #: (575)396-2378		Address: 522 W. Mermod											
Fax #: (575)396-1429		City: Carlsbad											
Project #:		State: NM		Zip: 88220									
Project Name: PLU 213		Phone #: (423)556-8730											
Project Location: Eddy, N.M.		Fax #:											
Sampler Name: Matt Taylor													
FOR LAB USE ONLY													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
								GROUNDWATER					
								WASTEWATER					
								SOIL					
								OIL					
								SLUDGE					
								OTHER :					
								ACID/BASE:					
								ICE / COOL					
								OTHER :					
								DATE		TIME			
1		Floor 1 @ 0.5'		G		1		8/22/2017		10:00		X	
2		Floor 2 @ 4'		G		1		8/22/2017		10:10		X	
3		Floor 3 @ 7'		G		1		8/22/2017		10:20		X	
4		Floor 4 @ 5'		G		1		8/22/2017		10:30		X	
5		Floor 5 @ 5'		G		1		8/22/2017		10:40		X	
6		Floor 6 @ 4'		G		1		8/22/2017		10:50		X	
7		Floor 7 @ 5'		G		1		8/22/2017		11:00		X	
8		Floor 8 @ 5'		G		1		8/22/2017		11:10		X	
9		NW1		G		1		8/22/2017		11:20		X	
10		NW2		G		1		8/22/2017		11:30		X	
PLEASE NOTE: Liability and Damages. Cardinal's 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.													
Relinquished By:		Date: 8/23/17		Received By:		Date: 8/23/17		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:			
Relinquished By:		Time: 8:00		Received By:		Time: 8:00		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:			
Delivered By: (Circle One) 15:06		Date: 8/23/17		Received By:		Date: 8/23/17		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: 15:06		Time: 8:45		Received By:		Date: 8/23/17		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: (Initials)			
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ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC Project Manager: Robbie Runnels Address: P.O. Box 301 City: Lovington Phone #: (575)396-2378 Fax #: (575)396-1429 Project #: Project Name: PLU 213 Project Location: Eddy, N.M. Sampler Name: Matt Taylor		P.O. #: Company: XTO Energy Attn: Amy Ruth Address: 522 W. Mermod City: Carlsbad State: NM Zip: 88220 Phone #: (423)556-8730 Fax #:	
FOR LAB USE ONLY Lab I.D. Sample I.D.		BILL TO ANALYSIS REQUEST	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV. SAMPLING	
DATE TIME		Chloride TPH (8015M) BTEX (8021B) RUSH	
11 NW3 12 WW1 13 WW2 14 WW3 15 SW1 16 SW2 17 SW3 18 EW1 19 EW2 20 EW3		8/22/2017 11:40 8/22/2017 11:50 8/22/2017 12:00 8/22/2017 12:10 8/22/2017 12:20 8/22/2017 12:30 8/22/2017 12:40 8/22/2017 12:50 8/22/2017 13:00 8/22/2017 13:10	
Relinquished By: <i>Matt Taylor</i> Date: 8/23/17 Time: 8:00 Received By: <i>Juanita</i> Date: 8-23-17 Time: 8:45		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>Consent 15.852</i> Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) <i>T.R.</i>		Please email results to pm@basinenv.com & amy_ruth@xtoenergy.com	

August 31, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 213

Enclosed are the results of analyses for samples received by the laboratory on 08/25/17 14:00.

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.

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: 08/25/2017
Reported: 08/31/2017
Project Name: PLU 213
Project Number: NONE GIVEN
Project Location: XTO ENERGY - EDDY CO NM

Sampling Date: 08/24/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FLOOR 8 @ 8' (H702259-01)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/28/2017	ND	448	112	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC

Project Manager: Robbie Runnels

Address: P.O. Box 301

City: Lovington

Phone #: (575) 396-2378

Project #:

Project Name: PLU 213

Project Location: Eddy

Sampler Name: Matt Taylor

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address:

City:

State: NM Zip: 88260

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H702859

1 Floor 8 @ 8'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

8/24/17

10:00

X

Chloride

TPH (8015M)

BTEX (8021B)

PLEASE NOTE: Liability and Damages. Cardinal's 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 analysis. 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.

Relinquished By:

Date: 8/25/17

Received By:

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Relinquished By:

Date: 8-25-17

Received By:

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

Delivered By: (Circle One) 22.52

Time:

Sample Condition

CHECKED BY: (Initials)

Sample - UPS - Bus - Other: Corrected 22.52

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

FORM-006

Revision 1.0

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

APPENDIX – C

Photo Documentation

XTO Energy – Poker Lake Unit 213

Unit Letter P of Section 18, T24S, R30E



Release area, facing southeast

8/8/17



Release area, facing east

8/15/17



Excavation, facing southeast

8/15/17



Excavation complete, facing south

9/1/17