OIL CONS. DIV DIST. 3

JAN 07 2016

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, Inc.	Contact: Logan Hixon
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3683
Facility Name: Ropco 16-2	Facility Type: Gas Well (Fruitland Coal)

Surface Owner: State Land	Mineral Owner	API No. 30-045-30993

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	16	29 N	14W	1186	FNL	1392	FWL	San Juan

Latitude: N36*.730529 **Longitude:** W-108*.319347

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Approximately 60 bbl.	Volume Recovered: 50 bbl. Recovered
Source of Release: 90 degree turn in produced water line	Date and Hour of Occurrence: July 2, 2014 at Unknown Time	Date and Hour of Discovery: July 2, 2014 at 1600.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Cory Smith (NMOCD)	
By Whom? Logan Hixon (XTO)	Date and Hour: Friday December 11, 2015 at 1640 (Attached)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On December 11, 2015, a water leak was discovered in the produced water transport line on the Ropco 16-2 well site. An estimated 60 bbl. of produced water leaked from the pipeline, and came to surface on site; of the 60 bbl. released, 50 bbl. were recovered on December 11, 2015. The waterline was excavated, and the leak occurred at the 90 degree elbow. The produced water traveled to the south, with the widest point being forty-six (46) feet, and the longest point being ninety-four (94) feet long. The site was ranked a 20 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The depth to groundwater is estimated be less than fifty (50) feet deep. This set the regulatory limits to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.* On December 11, 2015, a composite soil sample was collected from the source area (point of release coming to surface), the pad area, the crossover area, and the access road area, for a total of four (4) composite soil samples collected. All samples were lab analyzed via USEPA Method 8015 (DRO & GRO), 8021 (BTEX), and chlorides. The sample collected at the source returned analytical results of 6,200 PPM total Chlorides, and below standards for TPH and BTEX. The sample collected at the pad returned analytical results of 3,600 PPM total Chlorides, and below standards for TPH and BTEX. The sample collected at the crossover area returned analytical results of below detectable limit PPM total Chlorides, and below standards for TPH and BTEX. The sample collected at the access road area returned analytical results of 2,500 PPM total Chlorides, and below standards for TPH and BTEX. December 28, 2015, XTO requested approval for the application of gypsum to the site to address chloride levels. Cory Smith (NMOCD) approved the proposed remediation plan of applying gypsum to the impacted area on December 28, 2015. On December 30, 2015 a crew raked into the impacted area approximately 1,200 lbs. of gypsum at an application rate of approximately one (1) lb. per linear foot. Activity was pursuant to the approved remediation plan discussed with Cory Smith (NMOCD) on December 28, 2015. No further action is required. The sample results are attached for your reference.

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: Logan Hixon	OIL CONSERVATION DIVISION	
Printed Name: Logan Hixon	Approved by Environmental Specialist:	
Title: EHS Coordinator	Approval Date: 02/23/16	Expiration Date:
E-mail Address: Logan_Hixon@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: January 4, 2016 Phone: 505-333-3683	-	

* Attach Additional Sheets If Necessary

NVF1535740316

16

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 23, 2015

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Ropco 16-2 OrderNo.: 1512622

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/12/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
Project: Ropco 16-2
Lab ID: 1512622-001 **Matrix:** SOIL

Client Sample ID: PAD Composite
Collection Date: 12/11/2015 3:00:00 PM
Received Date: 12/12/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	3600	150		mg/Kg	100	12/17/2015 5:17:36 PM	22840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/16/2015 1:30:15 PM	22777
Surr: DNOP	76.7	70-130		%REC	1	12/16/2015 1:30:15 PM	22777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2015 10:50:06 AM	22789
Surr: BFB	82.5	66.2-112		%REC	1	12/16/2015 10:50:06 AM	22789
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.047		mg/Kg	1	12/16/2015 10:50:06 AM	22789
Toluene	ND	0.047		mg/Kg	1	12/16/2015 10:50:06 AM	22789
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2015 10:50:06 AM	22789
Xylenes, Total	ND	0.095		mg/Kg	1	12/16/2015 10:50:06 AM	22789
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	12/16/2015 10:50:06 AM	22789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
Project: Ropco 16-2
Lab ID: 1512622-002 **Matrix:** SOIL

Client Sample ID: Source
Collection Date: 12/11/2015 3:13:00 PM
Received Date: 12/12/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	6200	300		mg/Kg	200	12/17/2015 5:30:01 PM	22840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/16/2015 1:51:50 PM	22777
Surr: DNOP	75.9	70-130		%REC	1	12/16/2015 1:51:50 PM	22777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2015 12:03:35 PM	22789
Surr: BFB	89.6	66.2-112		%REC	1	12/16/2015 12:03:35 PM	22789
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.047		mg/Kg	1	12/16/2015 12:03:35 PM	22789
Toluene	ND	0.047		mg/Kg	1	12/16/2015 12:03:35 PM	22789
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2015 12:03:35 PM	22789
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2015 12:03:35 PM	22789
Surr: 4-Bromofluorobenzene	115	80-120		%REC	1	12/16/2015 12:03:35 PM	22789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
Project: Ropco 16-2
Lab ID: 1512622-003 **Matrix:** SOIL

Client Sample ID: Crossover
Collection Date: 12/11/2015 3:30:00 PM
Received Date: 12/12/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	30		mg/Kg	20	12/16/2015 10:31:36 PM	22840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	36	10		mg/Kg	1	12/16/2015 2:13:18 PM	22777
Surr: DNOP	76.8	70-130		%REC	1	12/16/2015 2:13:18 PM	22777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2015 1:17:01 PM	22789
Surr: BFB	82.8	66.2-112		%REC	1	12/16/2015 1:17:01 PM	22789
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.048		mg/Kg	1	12/16/2015 1:17:01 PM	22789
Toluene	ND	0.048		mg/Kg	1	12/16/2015 1:17:01 PM	22789
Ethylbenzene	ND	0.048		mg/Kg	1	12/16/2015 1:17:01 PM	22789
Xylenes, Total	ND	0.095		mg/Kg	1	12/16/2015 1:17:01 PM	22789
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	12/16/2015 1:17:01 PM	22789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
Project: Ropco 16-2
Lab ID: 1512622-004 **Matrix:** SOIL

Client Sample ID: Across Road
Collection Date: 12/11/2015 3:20:00 PM
Received Date: 12/12/2015 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	2500	75		mg/Kg	50	12/17/2015 5:42:26 PM	22840
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/16/2015 2:56:19 PM	22777
Surr: DNOP	72.9	70-130		%REC	1	12/16/2015 2:56:19 PM	22777
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2015 1:41:30 PM	22789
Surr: BFB	84.6	66.2-112		%REC	1	12/16/2015 1:41:30 PM	22789
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.047		mg/Kg	1	12/16/2015 1:41:30 PM	22789
Toluene	ND	0.047		mg/Kg	1	12/16/2015 1:41:30 PM	22789
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2015 1:41:30 PM	22789
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2015 1:41:30 PM	22789
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	12/16/2015 1:41:30 PM	22789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512622**

23-Dec-15

Client: XTO Energy
Project: Ropco 16-2

Sample ID	**MB-22840**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**22840**		RunNo:	**30906**				
Prep Date:	**12/16/2015**	Analysis Date:	**12/16/2015**		SeqNo:	**944949**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-22840**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**22840**		RunNo:	**30906**				
Prep Date:	**12/16/2015**	Analysis Date:	**12/16/2015**		SeqNo:	**944950**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512622**

23-Dec-15

Client: XTO Energy
Project: Ropco 16-2

Sample ID **MB-22777**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **22777**	RunNo: **30855**
Prep Date: **12/14/2015**	Analysis Date: **12/15/2015**	SeqNo: **943424** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.6		10.00		85.7	70	130			

Sample ID **LCS-22777**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **22777**	RunNo: **30855**
Prep Date: **12/14/2015**	Analysis Date: **12/15/2015**	SeqNo: **943440** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	65.8	136			
Surr: DNOP	4.5		5.000		89.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512622**

23-Dec-15

Client: XTO Energy
Project: Ropco 16-2

Sample ID	MB-22789	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	22789		RunNo:	30888				
Prep Date:	12/14/2015	Analysis Date:	12/16/2015		SeqNo:	944112	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.2	66.2	112			

Sample ID	LCS-22789	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	22789		RunNo:	30888				
Prep Date:	12/14/2015	Analysis Date:	12/16/2015		SeqNo:	944113	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	79.6	122			
Surr: BFB	1000		1000		105	66.2	112			

Sample ID	1512622-002AMS	SampType:	MS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	Source	Batch ID:	22789		RunNo:	30888				
Prep Date:	12/14/2015	Analysis Date:	12/16/2015		SeqNo:	944116	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.56	0	97.6	62.5	151			
Surr: BFB	940		942.5		99.7	66.2	112			

Sample ID	1512622-002AMSD	SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	Source	Batch ID:	22789		RunNo:	30888				
Prep Date:	12/14/2015	Analysis Date:	12/16/2015		SeqNo:	944117	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.54	0	97.7	62.5	151	0.0287	22.1	
Surr: BFB	910		941.6		96.8	66.2	112	0	0	

Sample ID	MB-22811	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	22811		RunNo:	30888				
Prep Date:	12/15/2015	Analysis Date:	12/16/2015		SeqNo:	944120	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	830		1000		82.7	66.2	112			

Sample ID	LCS-22811	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	22811		RunNo:	30888				
Prep Date:	12/15/2015	Analysis Date:	12/16/2015		SeqNo:	944121	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	66.2	112			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512622**

23-Dec-15

Client: XTO Energy
Project: Ropco 16-2

Sample ID **MB-22789**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **22789**	RunNo: **30888**
Prep Date: **12/14/2015**	Analysis Date: **12/16/2015**	SeqNo: **944167** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID **LCS-22789**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **22789**	RunNo: **30888**
Prep Date: **12/14/2015**	Analysis Date: **12/16/2015**	SeqNo: **944168** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	80	120			
Toluene	0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	80	120			S

Sample ID **1512622-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PAD Composite**	Batch ID: **22789**	RunNo: **30888**
Prep Date: **12/14/2015**	Analysis Date: **12/16/2015**	SeqNo: **944170** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.047	0.9470	0	96.4	69.6	136			
Toluene	0.99	0.047	0.9470	0	104	76.2	134			
Ethylbenzene	1.1	0.047	0.9470	0	113	75.8	137			
Xylenes, Total	3.1	0.095	2.841	0.02034	109	78.9	133			
Surr: 4-Bromofluorobenzene	1.2		0.9470		132	80	120			S

Sample ID **1512622-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PAD Composite**	Batch ID: **22789**	RunNo: **30888**
Prep Date: **12/14/2015**	Analysis Date: **12/16/2015**	SeqNo: **944171** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.047	0.9461	0	86.4	69.6	136	11.1	20	
Toluene	0.89	0.047	0.9461	0	94.2	76.2	134	10.2	20	
Ethylbenzene	0.95	0.047	0.9461	0	100	75.8	137	12.4	20	
Xylenes, Total	2.7	0.095	2.838	0.02034	94.5	78.9	133	14.3	20	
Surr: 4-Bromofluorobenzene	1.1		0.9461		120	80	120	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512622**

23-Dec-15

Client: XTO Energy

Project: Ropco 16-2

Sample ID **MB-22811**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **22811**	RunNo: **30888**
Prep Date: **12/15/2015**	Analysis Date: **12/16/2015**	SeqNo: **944175** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID **LCS-22811**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **22811**	RunNo: **30888**
Prep Date: **12/15/2015**	Analysis Date: **12/16/2015**	SeqNo: **944176** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: XTO Energy | Work Order Number: 1512622 | RcptNo: 1

Received by/date: KM 12/12/15

Logged By: Ashley Gallegos 12/12/2015 9:00:00 AM

Completed By: Ashley Gallegos 12/14/2015 10:37:24 AM

Reviewed By: JA 12/14/15

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	Adjusted?
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

XTO ENERGY
Western Division

Quote Number		Page 1 of 1
XTO Contact: REX FARNSWORTH		XTO Contact Phone #: 505 787-0643
Email Results to: JAMES, LOGAN, KURT, OTTO REX		
Well Site/Location: ROPCO 16-2	API Number: 30-045-30993	Test Reason: RELEASE
Collected By: REX FARNSWORTH	Samples on Ice (Y/N): Y	Turnaround: ___ Standard; ___ Next Day; ___ Two Day; ___ Three Day; X Std. 5 Bus. Days (by contract); Date Needed ___
Company: XTO ENERGY	QA/QC Requested	
Signature:	Gray Areas for Lab Use Only!	

Sample ID	Sample Name	Media	Date	Time	Preservative	No. of Cont.	BTEX (8021)	(8015) DRO GRO	Chlorides	Sample Number
PAD COMPOSITE	PAD COMPOSITE	S	12/11/15	15:00	ON ICE	1 JAR	X	X	X	1512622-001
SOURCE	SOURCE	S	12/11/15	15:13	ON ICE	1 JAR	X	X	X	-002
CROSSOVER	CROSSOVER	S	12/11/15	15:30	ON ICE	1 JAR	X	X	X	-003
ACCESS ROAD	ACCESS ROAD	S	12/11/15	15:20	ON ICE	1 JAR	X	X	X	-004

Analysis

Lab Information

Office Abbreviations
Farmington = FAR
Durango = DUR
Bakken = BAK
Raton = RAT
Piceance = PC
Roosevelt = RSV
La Barge = LB
Orangeville = OV

Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Waster = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

Relinquished By: (Signature) REX FARNSWORTH	Date: 12-11-15	Time:	Received By: (Signature) Mistie Wade	Number of Bottles	Sample Condition
Relinquished By: (Signature) Mistie Wade	Date: 12/11/15	Time: 1715	Received By: (Signature) 12/12/15 0900	Temperature: 1.4°C	Other Information
Relinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature)	Date: / Time:	

Comments

* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

From: Hixon, Logan
To: "Smith, Cory, EMNRD"
Cc: McDaniel, James; Hoekstra, Kurt; Farnsworth, Rex; Powell, Brandon, EMNRD; Fields, Vanessa, EMNRD; Weaver, John (John_Weaver@xtoenergy.com); Morrow, Pete (Pete_Morrow@xtoenergy.com); Baxstrom, Scott (Scott_Baxstrom@xtoenergy.com)
Subject: RE: 2015-12-11 24 Hour Release Notification: Ropco 16-2 (30-045-30993) (24Hr Notification of Activities)
Date: Tuesday, December 29, 2015 7:43:00 AM

Good Morning Cory,
This will be considered the 24hr notification of application of gypsum at the Ropco 16-2 well site (30-045-30993) located in Section 16(C), Township 29N, and Range 14W.

Work will begin on December 30, 2016 at approximately 13:00.

If you have any questions please don't hesitate to contact us.

Thanks and have a good day!

Thank You!
XTO ENERGY INC., an ExxonMobil subsidiary
Logan Hixon|ph: 970-247-7708 | Cell: 505-386-8018 | ph: 505-333-3100 |
Logan_Hixon@xtoenergy.com

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]
Sent: Monday, December 28, 2015 7:25 AM
To: Hixon, Logan
Cc: McDaniel, James; Hoekstra, Kurt; Farnsworth, Rex; Powell, Brandon, EMNRD; Fields, Vanessa, EMNRD
Subject: RE: 2015-12-11 24 Hour Release Notification: Ropco 16-2 (30-045-30993)

Mr. Hixon,

OCD approves XTO plan to apply gypsum to the release area. Please give the OCD at least 24 hours' notice prior to the application of gypsum. Please submit a final C-141 after the remediation is complete.

Thank you,

Cory Smith
Environmental Specialist
Oil Conservation Division

Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Hixon, Logan [mailto:Logan_Hixon@xtoenergy.com]
Sent: Monday, December 28, 2015 5:58 AM
To: Smith, Cory, EMNRD; Powell, Brandon, EMNRD
Cc: McDaniel, James; Hoekstra, Kurt; Farnsworth, Rex; Morrow, Pete; Weaver, John
Subject: RE: 2015-12-11 24 Hour Release Notification: Ropco 16-2 (30-045-30993)

Good Morning Cory,
Sample results for the Ropco 16-2 are attached. All sample points returned results below the standards set for the site, for BTEX (50 PPM), and TPH (DRO & GRO) (100 PPM). Chloride levels on two of the four samples were slightly elevated. Due to the site having natural alkalinity and based on chloride results, XTO requests to do the following:

1) Spread approximately 30 (40lb) bags of gypsum on the area. For a total of 1,200 lbs. approximately distributed evenly on site and raked in to the soil to prevent transport.
2) After completion of application of gypsum, a final C-141 will submitted with no further action needed.

With approval of the above stated plan, the work will be completed and submittal of all final documentation will be provided.

If you have any questions do not hesitate contact us at any time.

Thank you for your time, and have a great day!

Thank You!
XTO ENERGY INC., an ExxonMobil subsidiary
Logan Hixon|ph: 970-247-7708 | Cell: 505-386-8018 | ph: 505-333-3100 |
Logan_Hixon@xtoenergy.com

From: Hixon, Logan
Sent: Friday, December 11, 2015 5:41 PM
To: Smith, Cory, EMNRD; BRANDON POWELL (brandon.powell@state.nm.us); jtaschek@slo.state.nm.us
Cc: McDaniel, James (James_McDaniel@xtoenergy.com); Hoekstra, Kurt; Farnsworth, Rex (Rex_Farnsworth@xtoenergy.com); Bentson, Brian (Brian_Bentson@xtoenergy.com); Morrow, Pete (Pete_Morrow@xtoenergy.com); Nee, Martin (Martin_Nee@xtoenergy.com); Logan, Michael (Michael_Logan@xtoenergy.com); Weaver, John (John_Weaver@xtoenergy.com); Divine, Olan
Subject: 2015-12-11 24 Hour Release Notification: Ropco 16-2 (30-045-30993)

Cory,
As discussed on the phone today 12/11/2015 14:47, a release occurred at the Ropco 16-2 well site (30-045-30993) located in Section 16(C), Township 29N, and Range 14W. The release was discovered at 12:15 P.M. MST. The release occurred at a 90 degree turn on the produced water discharge line on location past the water meter and valve below ground for the site. The site has been ranked a 20 due to an estimated depth to groundwater less than fifty (50) feet. Approximately sixty (60) barrels were released with approximately fifty (50) barrels recovered. The impacted area is approximately ninety-four (94) feet in length at its longest points and forty-six (46) feet wide at its widest points, with the deepest saturation level of approximately five (5) inches deep. A composite soil sample was collected from the source area (point of release coming to surface), the pad area, the crossover area, and the access road area, for a total of four (4) composite soil samples collected. All samples will be lab analyzed via USEPA Method 8015 (DRO & GRO), 8021 (BTEX), and chlorides.

Further communication will continue with the receiving of lab analysis results from samples collected today 12/11/2015.

If you have any questions please do not hesitate to contact us at any time.

Thank You!

XTO ENERGY INC., an ExxonMobil subsidiary
Logan Hixon|ph: 970-247-7708 | Cell: 505-386-8018 | ph: 505-333-3100 |
Logan_Hixon@xtoenergy.com