

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: Kurt Hoekstra	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3100	
Facility Name: PO Pipkin # 6F	Facility Type: Gas Well (Basin Dakota/Basin Mancos)	
Surface Owner: Federal	Mineral Owner	API No. 30-045-33446

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	18	27N	10W	2330	FNL	1740	FEL	San Juan

Latitude: 36.57615 Longitude: -107.93379

NATURE OF RELEASE

Type of Release: Condensate/Produced Water	Volume of Release: UNK	Volume Recovered: None
Source of Release: Flow Lines	Date and Hour of Occurrence Unknown	Date and Hour of Discovery: 4-17-2017, 2:38 pm
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	OIL CONS. DIV DIST. 3
If a Watercourse was Impacted, Describe Fully.*		JUN 05 2017

Describe Cause of Problem and Remedial Action Taken.* An XTO construction crew was performing maintenance work on the flow lines at the PO Pipkin # 6F well site and discovered what appeared to be impacted soil. EHS Collected samples for analysis. The site was ranked a 20 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to distance to surface water 200-1000 feet, and an estimated depth to groundwater between 50 and 100 feet. This will set the closure standards to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. The soil was sampled for TPH via USEPA Method 8015, and for BTEX via USEPA Method 8021, and chloride USEPA 300.0. The sample results confirmed a release had occurred.

Describe Area Affected and Cleanup Action Taken.*XTO requested and was granted an alternative closure standard for this location based on the dense clay which makes up the subsurface soil, a depth to groundwater near 100', and low levels of BTEX constituents as reported in the initial sample results. The approved alternative closure standard for this location is: 1,000 mg/kg TPH (DRO/GRO/MRO), 10 mg/kg Benzene, and 50 mg/kg total BTEX. The written approval is attached. XTO excavated approximately 1270 cu yds. of impacted material and hauled it to Envirotechs' land farm. The Backfill material was obtained from Paul & Son Construction and approved by Heather Perry at the BLM FFO. Closure samples were taken and witnessed by NMOCD and BLM representatives' onsite. The closure sample results (attached) were below regulatory standards, and no further action is required.

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: <i>Kurt Hoekstra</i>		OIL CONSERVATION DIVISION	
Printed Name: Kurt Hoekstra		Approved by Environmental Specialist: <i>[Signature]</i>	
Title: EHS Coordinator		Approval Date: 6/8/2017	Expiration Date:
E-mail Address: Kurt_Hoekstra@xtoenergy.com		Conditions of Approval:	Attached ☐
Date: 5-31-2017 Phone: 505-333-3100			

* Attach Additional Sheets If Necessary

NVF171138761

Hoekstra, Kurt

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Sent: Friday, May 05, 2017 8:38 AM
To: McDaniel, James; Powell, Brandon, EMNRD; Perrin, Charlie, EMNRD
Cc: Smith, Cory, EMNRD; Weaver, John; Woolley, Jeff; Marriott, Mike; Nee, Martin; Logan, Michael; Harrison, Lyndon; Hoekstra, Kurt; Hixon, Logan; Whitney Thomas (l1thomas@blm.gov)
Subject: RE: P O Pipkin #6F Assessment Results
Categories: External Sender

Good morning James,

I apologize for the delay in responding to your request as I was in the field yesterday. Based on the site review and delineation that was performed by XTO on Wednesday May 3, 2017, OCD grants approval for an alternative closure standard for this site of 1,000 mg/kg TPH (DRO/GRO/MRO), 10 mg/kg Benzene, and 50 mg/kg total BTEX.

Please include this approval in your final C-141.

OCD's approval of alternative closure standards does not relieve XTO of any requirements that may be required by other regulatory agencies.

Please let me know if you have any questions and/or concerns.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: McDaniel, James [mailto:James_McDaniel@xtoenergy.com]
Sent: Thursday, May 4, 2017 9:34 AM
To: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>
Cc: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Weaver, John <John_Weaver@xtoenergy.com>; Woolley, Jeff <Jeff_Woolley@xtoenergy.com>; Marriott, Mike <Mike_Marriott@xtoenergy.com>; Nee, Martin <Martin_Nee@xtoenergy.com>; Logan, Michael <Michael_Logan@xtoenergy.com>; Harrison, Lyndon <Lyndon_Harrison@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Hixon, Logan <Logan_Hixon@xtoenergy.com>; Whitney Thomas (l1thomas@blm.gov) <l1thomas@blm.gov>
Subject: RE: P O Pipkin #6F Assessment Results

Thank you!

Hoekstra, Kurt

From: McDaniel, James
Sent: Thursday, May 04, 2017 7:05 AM
To: 'Brandon Powell (brandon.powell@state.nm.us)'; Perrin, Charlie, EMNRD (charlie.perrin@state.nm.us)
Cc: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); Smith, Cory, EMNRD; Weaver, John; Woolley, Jeff; Marriott, Mike; Nee, Martin; Logan, Michael; Harrison, Lyndon; Hoekstra, Kurt; Hixon, Logan; Whitney Thomas (l1thomas@blm.gov)
Subject: P O Pipkin #6F Assessment Results
Attachments: PO Pipkin 6F.PDF

Brandon/Charlie,

On May 2, 2017, XTO performed delineation activities at the P O Pipkin #6F well location. The sampling event was witnessed by Vanessa Fields with the NMOCD. The results of the sampling are attached, and a map outlining the sampling locations is below. Based on the results, XTO does not believe that this released poses a threat to human health and the environment. Sample results indicate that BTEX is not migrating in the dense clay the makes up the subsurface at this location. Due to the low levels of BTEX constituents, the dense clay soil type, and a depth to groundwater near 100', XTO would like to propose an alternative closure standard for this site of 1,000 mg/kg TPH (DRO/GRO/MRO), 10 mg/kg Benzene, and 50 mg/kg total BTEX. Thank you.

North 7' Deep

DRO: ND
GRO: ND
MRO: ND
Benzene: ND
Toluene: ND
Ethyl: ND
Xylenes: ND

BGT Bottom
@ 12'

DRO: 220
GRO: 94
MRO: ND
Benzene: ND
Toluene: ND
Ethyl: 0.43
Xylenes: 0.48

25' East 6'
Deep

DRO: 180
GRO: 81
MRO: ND
Benzene: ND
Toluene: 0.50
Ethyl: 0.36
Xylenes: 2.8

West 7' Deep

DRO: ND
GRO: ND
MRO: ND
Benzene: ND
Toluene: ND
Ethyl: ND
Xylenes: ND

Bottom @ 10'

DRO: ND
GRO: ND
MRO: ND
Benzene: ND
Toluene: ND
Ethyl: ND
Xylenes: ND

14' South
5.5' Deep

DRO: ND
GRO: ND
MRO: ND
Benzene:
ND
Toluene: ND
Ethyl: ND
Xylenes: ND

**Approximate
Excavated Area**

Pipkin



Analytical Report

Report Summary

Client: XTO Energy Inc.
Chain Of Custody Number: 1056
Samples Received: 4/26/2017 3:05:00PM
Job Number: 98031-0528
Work Order: P704035
Project Name/Location: P.O. Pipkin #6F

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', followed by a small checkmark-like symbol.

Date: 4/28/17

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain', with a stylized flourish.

Date: 4/28/17

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: P.O. Pipkin #6F
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
28-Apr-17 11:28

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.E. Tank Ring	P704035-01A	Soil	04/26/17	04/26/17	Glass Jar, 4 oz.
S.W. Tank Ring	P704035-02A	Soil	04/26/17	04/26/17	Glass Jar, 4 oz.

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: P.O. Pipkin #6F
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
28-Apr-17 11:28

**S.W. Tank Ring
P704035-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Ethylbenzene	0.90	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
p,m-Xylene	0.28	0.20	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
o-Xylene	0.18	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Total Xylenes	0.47	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Total BTEX	1.37	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1717012	04/26/17	04/27/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	57.2	20.0	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8015D	
Diesel Range Organics (C10-C28)	195	50.0	mg/kg	2	1717014	04/27/17	04/27/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	100	mg/kg	2	1717014	04/27/17	04/27/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %		50-150	1717012	04/26/17	04/27/17	EPA 8015D	
Surrogate: n-Nonane		103 %		50-200	1717014	04/27/17	04/27/17	EPA 8015D	

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: P.O. Pipkin #6F
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
28-Apr-17 11:28

**S.E. Tank Ring
P704035-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	0.20	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Toluene	0.97	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Ethylbenzene	1.42	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
p,m-Xylene	13.8	0.20	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
o-Xylene	2.58	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Total Xylenes	16.4	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Total BTEX	19.0	0.10	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		120 %		50-150	1717012	04/26/17	04/27/17	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	258	20.0	mg/kg	1	1717012	04/26/17	04/27/17	EPA 8015D	
Diesel Range Organics (C10-C28)	3980	500	mg/kg	20	1717014	04/27/17	04/27/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	1000	mg/kg	20	1717014	04/27/17	04/27/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %		50-150	1717012	04/26/17	04/27/17	EPA 8015D	
Surrogate: n-Nonane		444 %		50-200	1717014	04/27/17	04/27/17	EPA 8015D	Surr2
<u>Cation/Anion Analysis</u>									
Chloride	45.1	20.0	mg/kg	1	1717015	04/27/17	04/27/17	EPA 300.0	

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: P.O. Pipkin #6F
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
28-Apr-17 11:28

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1717012 - Purge and Trap EPA 5030A

(1717012-BLK1)		Prepared: 26-Apr-17 Analyzed: 27-Apr-17								
ne	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	7.79		"	8.00		97.4	50-150			

LCS (1717012-BS1)		Prepared: 26-Apr-17 Analyzed: 27-Apr-17								
ne	5.19	0.10	mg/kg	5.00		104	70-130			
Toluene	5.10	0.10	"	5.00		102	70-130			
Ethylbenzene	5.09	0.10	"	5.00		102	70-130			
p,m-Xylene	10.2	0.20	"	10.0		102	70-130			
o-Xylene	4.97	0.10	"	5.00		99.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		"	8.00		101	50-150			

Matrix Spike (1717012-MS1)		Source: P704037-01		Prepared: 26-Apr-17 Analyzed: 27-Apr-17						
Benzene	5.12	0.10	mg/kg	5.00	ND	102	54.3-133			
Toluene	5.06	0.10	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.07	0.10	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.20	"	10.0	ND	101	63.3-131			
o-Xylene	4.96	0.10	"	5.00	ND	99.3	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.08		"	8.00		101	50-150			

Matrix Spike Dup (1717012-MSD1)		Source: P704037-01		Prepared: 26-Apr-17 Analyzed: 27-Apr-17						
Benzene	5.22	0.10	mg/kg	5.00	ND	104	54.3-133	1.90	20	
Toluene	5.15	0.10	"	5.00	ND	103	61.4-130	1.65	20	
Ethylbenzene	5.15	0.10	"	5.00	ND	103	61.4-133	1.60	20	
p,m-Xylene	10.3	0.20	"	10.0	ND	103	63.3-131	1.56	20	
o-Xylene	5.04	0.10	"	5.00	ND	101	63.3-131	1.60	20	
Surrogate: 4-Bromochlorobenzene-PID	8.12		"	8.00		101	50-150			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: P.O. Pipkin #6F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 28-Apr-17 11:28
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1717012 - Purge and Trap EPA 5030A										
Blank (1717012-BLK1)				Prepared: 26-Apr-17 Analyzed: 27-Apr-17						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		"	8.00		107	50-150			
LCS (1717012-BS1)				Prepared: 26-Apr-17 Analyzed: 27-Apr-17						
Gasoline Range Organics (C6-C10)	65.9	20.0	mg/kg	60.9		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		"	8.00		100	50-150			
Matrix Spike (1717012-MS1)				Source: P704037-01		Prepared: 26-Apr-17 Analyzed: 27-Apr-17				
Gasoline Range Organics (C6-C10)	65.4	20.0	mg/kg	60.9	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		"	8.00		100	50-150			
Matrix Spike Dup (1717012-MSD1)				Source: P704037-01		Prepared: 26-Apr-17 Analyzed: 27-Apr-17				
Gasoline Range Organics (C6-C10)	64.3	20.0	mg/kg	60.9	ND	106	70-130	1.70	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		"	8.00		97.3	50-150			

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: P.O. Pipkin #6F
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
28-Apr-17 11:28

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1717014 - DRO Extraction EPA 3570										
(1717014-BLK1)				Prepared & Analyzed: 27-Apr-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	53.4		"	50.0		107	50-200			
LCS (1717014-BS1)				Prepared & Analyzed: 27-Apr-17						
Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500		90.4	38-132			
Surrogate: n-Nonane	54.5		"	50.0		109	50-200			
Matrix Spike (1717014-MS1)				Source: P704020-01		Prepared & Analyzed: 27-Apr-17				
Diesel Range Organics (C10-C28)	456	25.0	mg/kg	500	ND	91.2	38-132			
Surrogate: n-Nonane	49.6		"	50.0		99.2	50-200			
Matrix Spike Dup (1717014-MSD1)				Source: P704020-01		Prepared & Analyzed: 27-Apr-17				
Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500	ND	92.8	38-132	1.69	20	
Surrogate: n-Nonane	51.0		"	50.0		102	50-200			

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laboratory@envirotech-inc.com



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: P.O. Pipkin #6F
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
28-Apr-17 11:28

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1717015 - Anion Extraction EPA 300.0										
Blank (1717015-BLK1)				Prepared & Analyzed: 27-Apr-17						
Chloride	ND	20.0	mg/kg							
LCS (1717015-BS1)				Prepared & Analyzed: 27-Apr-17						
Chloride	260	20.0	mg/kg	250		104	90-110			
Matrix Spike (1717015-MS1)				Source: P704037-01		Prepared & Analyzed: 27-Apr-17				
Chloride	260	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1717015-MSD1)				Source: P704037-01		Prepared & Analyzed: 27-Apr-17				
Chloride	254	20.0	mg/kg	250	ND	102	80-120	2.31	20	

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: P.O. Pipkin #6F
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
28-Apr-17 11:28

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Ph (505) 632-0615 Fx (505) 632-1865

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PO Pipkin # 6F Sample Table

[illegible]



On Site Form

Well Name: P.O. Pipkin #6F

Date: 5-11-17

Sec. T- R- API # 30-045-33446

Contractors on Site:

Time On-Site: Time Off-Site:

Spill Amount / Type:

Excavation x x Deep

Samples:

Time:	Sample Name	PID	Analysis
8:52	L.L. N WALL	44.4	8015 GPD, 200, HED
9:53	L.L. W WALL	12.3	8021
9:55	LL E WALL	72.5	
9:56	LL S WALL	90.7	
9:58	LL BOTTOM	43.4	
10:03	N 1/2 N WALL	29.5	
10:05	N 1/2 W WALL	8.0	
10:07	N 1/2 E WALL	35.6	
10:09	N 1/2 BOTTOM	21.4	
10:13	S 1/2 SW WALL	55.4	
10:15	S 1/2 NW WALL	16.8	
10:16	S 1/2 E WALL	65.3	
10:18	S 1/2 BOTTOM	28.1	
10:20	Comp LINES E WALL	32.6	
10:23	Comp LINES W WALL	10.3	
10:25	Comp LINES BOTTOM	43.3	

TO
WELLHEADLINE
TO
METER

Name Print: KURT HOEKSTRA

Name Signature: *Kurt Hoekstra*

Company: XTO

Comments:

Hoekstra 801-0026

May 17, 2017

XTO Energy - San Juan Division

Sample Delivery Group: L908977
Samples Received: 05/12/2017
Project Number: 30-045-33446
Description: PO Pipkin 6F

Report To: Kurt Hoekstra
382 County Road 3100
Aztec, NM 87410

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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⁴ Ci

⁵ Sr

⁶ Q

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



PO PIPKIN #6F L908977-01 Solid

Collected by
Kurt

Collected date/time
05/11/17 09:52

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	25	05/16/17 18:06	05/17/17 14:44	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 12:11	ACM

PO PIPKIN #6F L908977-02 Solid

Collected by
Kurt

Collected date/time
05/11/17 09:53

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/16/17 23:43	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 12:24	ACM

PO PIPKIN #6F L908977-03 Solid

Collected by
Kurt

Collected date/time
05/11/17 09:55

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 00:05	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 12:37	ACM

PO PIPKIN #6F L908977-04 Solid

Collected by
Kurt

Collected date/time
05/11/17 09:56

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 00:28	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 12:52	ACM

PO PIPKIN #6F L908977-05 Solid

Collected by
Kurt

Collected date/time
05/11/17 09:58

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	24.25	05/16/17 18:06	05/17/17 00:50	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 13:06	ACM

PO PIPKIN #6F L908977-06 Solid

Collected by
Kurt

Collected date/time
05/11/17 10:03

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	.99	05/16/17 18:06	05/17/17 01:13	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 13:21	ACM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



PO PIPKIN #6F L908977-07 Solid

			Collected by Kurt	Collected date/time 05/11/17 10:05	Received date/time 05/12/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 01:35	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 13:35	ACM

PO PIPKIN #6F L908977-08 Solid

			Collected by Kurt	Collected date/time 05/11/17 10:07	Received date/time 05/12/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 01:57	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 13:48	ACM

PO PIPKIN #6F L908977-09 Solid

			Collected by Kurt	Collected date/time 05/11/17 10:09	Received date/time 05/12/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979733	1	05/16/17 07:28	05/16/17 07:37	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 02:27	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 14:03	ACM

PO PIPKIN #6F L908977-10 Solid

			Collected by Kurt	Collected date/time 05/11/17 10:13	Received date/time 05/12/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979734	1	05/16/17 07:17	05/16/17 07:26	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 02:49	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 15:04	ACM

PO PIPKIN #6F L908977-11 Solid

			Collected by Kurt	Collected date/time 05/11/17 10:15	Received date/time 05/12/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979734	1	05/16/17 07:17	05/16/17 07:26	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	.99	05/16/17 18:06	05/17/17 03:11	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 15:17	ACM

PO PIPKIN #6F L908977-12 Solid

			Collected by Kurt	Collected date/time 05/11/17 10:16	Received date/time 05/12/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979734	1	05/16/17 07:17	05/16/17 07:26	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 03:34	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 15:31	ACM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



PO PIPKIN #6F L908977-13 Solid

Collected by
Kurt

Collected date/time
05/11/17 10:18

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979734	1	05/16/17 07:17	05/16/17 07:26	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	.98	05/16/17 18:06	05/17/17 03:56	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 15:45	ACM

PO PIPKIN #6F L908977-14 Solid

Collected by
Kurt

Collected date/time
05/11/17 10:20

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979734	1	05/16/17 07:17	05/16/17 07:26	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	.99	05/16/17 18:06	05/17/17 04:18	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 15:59	ACM

PO PIPKIN #6F L908977-15 Solid

Collected by
Kurt

Collected date/time
05/11/17 10:23

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979734	1	05/16/17 07:17	05/16/17 07:26	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	1	05/16/17 18:06	05/17/17 04:41	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 16:13	ACM

PO PIPKIN #6F L908977-16 Solid

Collected by
Kurt

Collected date/time
05/11/17 10:25

Received date/time
05/12/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG979734	1	05/16/17 07:17	05/16/17 07:26	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG980234	.99	05/16/17 18:06	05/17/17 05:03	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG979481	1	05/15/17 07:24	05/15/17 16:28	ACM

CASE NARRATIVE

ONE LAB. NATIONWIDE.



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Technical Service Representative

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.0		1	05/16/2017 07:37	WG979733

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0240		0.0154	25	05/17/2017 14:44	WG980234
Toluene	ND		0.154	25	05/17/2017 14:44	WG980234
Ethylbenzene	0.143		0.0154	25	05/17/2017 14:44	WG980234
Total Xylene	0.441		0.0463	25	05/17/2017 14:44	WG980234
TPH (GC/FID) Low Fraction	120		3.09	25	05/17/2017 14:44	WG980234
(S) o,a,a-Trifluorotoluene(FID)	99.4		77.0-120		05/17/2017 14:44	WG980234
(S) o,a,a-Trifluorotoluene(PID)	91.1		75.0-128		05/17/2017 14:44	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	80.4		4.94	1	05/15/2017 12:11	WG979481
C28-C40 Oil Range	ND		4.94	1	05/15/2017 12:11	WG979481
(S) o-Terphenyl	80.3		18.0-148		05/15/2017 12:11	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.0		1	05/16/2017 07:37	WG979733

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	ND		0.000617	1	05/16/2017 23:43	WG980234
Toluene	ND		0.00617	1	05/16/2017 23:43	WG980234
Ethylbenzene	0.00141	B	0.000617	1	05/16/2017 23:43	WG980234
Total Xylene	ND		0.00185	1	05/16/2017 23:43	WG980234
TPH (GC/FID) Low Fraction	0.261		0.123	1	05/16/2017 23:43	WG980234
(S) o,a,a-Trifluorotoluene(FID)	95.2		77.0-120		05/16/2017 23:43	WG980234
(S) o,a,a-Trifluorotoluene(PID)	101		75.0-128		05/16/2017 23:43	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	7.36		4.94	1	05/15/2017 12:24	WG979481
C28-C40 Oil Range	ND		4.94	1	05/15/2017 12:24	WG979481
(S) o-Terphenyl	83.6		18.0-148		05/15/2017 12:24	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.3		1	05/16/2017 07:37	WG979733

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000607	1	05/17/2017 00:05	WG980234
Toluene	ND		0.00607	1	05/17/2017 00:05	WG980234
Ethylbenzene	0.00321		0.000607	1	05/17/2017 00:05	WG980234
Total Xylene	0.00444	B	0.00182	1	05/17/2017 00:05	WG980234
TPH (GC/FID) Low Fraction	0.616		0.121	1	05/17/2017 00:05	WG980234
(S) a,a,a-Trifluorotoluene(FID)	95.2		77.0-120		05/17/2017 00:05	WG980234
(S) a,a,a-Trifluorotoluene(PID)	101		75.0-128		05/17/2017 00:05	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	25.1		4.86	1	05/15/2017 12:37	WG979481
C28-C40 Oil Range	ND		4.86	1	05/15/2017 12:37	WG979481
(S) o-Terphenyl	93.9		18.0-148		05/15/2017 12:37	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.5		1	05/16/2017 07:37	WG979733

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	0.00355		0.000671	1	05/17/2017 00:28	WG980234
Toluene	ND		0.00671	1	05/17/2017 00:28	WG980234
Ethylbenzene	0.0290		0.000671	1	05/17/2017 00:28	WG980234
Total Xylene	0.0150		0.00201	1	05/17/2017 00:28	WG980234
TPH (GC/FID) Low Fraction	2.10		0.134	1	05/17/2017 00:28	WG980234
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	92.1		77.0-120		05/17/2017 00:28	WG980234
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	100		75.0-128		05/17/2017 00:28	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	31.7		5.37	1	05/15/2017 12:52	WG979481
C28-C40 Oil Range	ND		5.37	1	05/15/2017 12:52	WG979481
(S) <i>o</i> -Terphenyl	85.5		18.0-148		05/15/2017 12:52	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.7		1	05/16/2017 07:37	WG979733

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	0.0247		0.0156	24.25	05/17/2017 00:50	WG980234
Toluene	ND		0.156	24.25	05/17/2017 00:50	WG980234
Ethylbenzene	0.355		0.0156	24.25	05/17/2017 00:50	WG980234
Total Xylene	0.565		0.0468	24.25	05/17/2017 00:50	WG980234
TPH (GC/FID) Low Fraction	97.5		3.12	24.25	05/17/2017 00:50	WG980234
(S) a,a,a-Trifluorotoluene(FID)	91.2		77.0-120		05/17/2017 00:50	WG980234
(S) a,a,a-Trifluorotoluene(PID)	102		75.0-128		05/17/2017 00:50	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	22.0		5.15	1	05/15/2017 13:06	WG979481
C28-C40 Oil Range	ND		5.15	1	05/15/2017 13:06	WG979481
(S) o-Terphenyl	96.3		18.0-148		05/15/2017 13:06	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.0		1	05/16/2017 07:37	<u>WG979733</u>

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000619	.99	05/17/2017 01:13	<u>WG980234</u>
Toluene	ND		0.00619	.99	05/17/2017 01:13	<u>WG980234</u>
Ethylbenzene	0.000924	<u>B</u>	0.000619	.99	05/17/2017 01:13	<u>WG980234</u>
Total Xylene	0.00542	<u>B</u>	0.00186	.99	05/17/2017 01:13	<u>WG980234</u>
TPH (GC/FID) Low Fraction	0.194		0.124	.99	05/17/2017 01:13	<u>WG980234</u>
(S) a,a,a-Trifluorotoluene(FID)	95.1		77.0-120		05/17/2017 01:13	<u>WG980234</u>
(S) a,a,a-Trifluorotoluene(PID)	100		75.0-128		05/17/2017 01:13	<u>WG980234</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	6.20		5.00	1	05/15/2017 13:21	<u>WG979481</u>
C28-C40 Oil Range	ND		5.00	1	05/15/2017 13:21	<u>WG979481</u>
(S) o-Terphenyl	97.0		18.0-148		05/15/2017 13:21	<u>WG979481</u>



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.0		1	05/16/2017 07:37	WG979733

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000596	1	05/17/2017 01:35	WG980234
Toluene	ND		0.00596	1	05/17/2017 01:35	WG980234
Ethylbenzene	ND		0.000596	1	05/17/2017 01:35	WG980234
Total Xylene	ND		0.00179	1	05/17/2017 01:35	WG980234
TPH (GC/FID) Low Fraction	ND		0.119	1	05/17/2017 01:35	WG980234
(S) o,a,a-Trifluorotoluene(FID)	95.4		77.0-120		05/17/2017 01:35	WG980234
(S) o,a,a-Trifluorotoluene(PID)	101		75.0-128		05/17/2017 01:35	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.76	1	05/15/2017 13:35	WG979481
C28-C40 Oil Range	ND		4.76	1	05/15/2017 13:35	WG979481
(S) o-Terphenyl	97.5		18.0-148		05/15/2017 13:35	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	05/16/2017 07:37	<u>WG979733</u>

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	ND		0.000583	1	05/17/2017 01:57	<u>WG980234</u>
Toluene	ND		0.00583	1	05/17/2017 01:57	<u>WG980234</u>
Ethylbenzene	ND		0.000583	1	05/17/2017 01:57	<u>WG980234</u>
Total Xylene	0.00685	<u>B</u>	0.00175	1	05/17/2017 01:57	<u>WG980234</u>
TPH (GC/FID) Low Fraction	0.133		0.117	1	05/17/2017 01:57	<u>WG980234</u>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.5		77.0-120		05/17/2017 01:57	<u>WG980234</u>
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	101		75.0-128		05/17/2017 01:57	<u>WG980234</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	47.1		4.66	1	05/15/2017 13:48	<u>WG979481</u>
C28-C40 Oil Range	ND		4.66	1	05/15/2017 13:48	<u>WG979481</u>
(S) <i>o</i> -Terphenyl	76.4		18.0-148		05/15/2017 13:48	<u>WG979481</u>



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.5		1	05/16/2017 07:37	WG979733

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	0.00130		0.000621	1	05/17/2017 02:27	WG980234
Toluene	ND		0.00621	1	05/17/2017 02:27	WG980234
Ethylbenzene	0.00190		0.000621	1	05/17/2017 02:27	WG980234
Total Xylene	0.00800	B	0.00186	1	05/17/2017 02:27	WG980234
TPH (GC/FID) Low Fraction	0.177		0.124	1	05/17/2017 02:27	WG980234
(S) a,a,a-Trifluorotoluene(FID)	95.4		77.0-120		05/17/2017 02:27	WG980234
(S) a,a,a-Trifluorotoluene(PID)	101		75.0-128		05/17/2017 02:27	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	ND		4.97	1	05/15/2017 14:03	WG979481
C28-C40 Oil Range	ND		4.97	1	05/15/2017 14:03	WG979481
(S) a-Terphenyl	88.3		18.0-148		05/15/2017 14:03	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.1		1	05/16/2017 07:26	<u>WG979734</u>

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	ND		0.000595	1	05/17/2017 02:49	<u>WG980234</u>
Toluene	ND		0.00595	1	05/17/2017 02:49	<u>WG980234</u>
Ethylbenzene	0.000652	B	0.000595	1	05/17/2017 02:49	<u>WG980234</u>
Total Xylene	ND		0.00178	1	05/17/2017 02:49	<u>WG980234</u>
TPH (GC/FID) Low Fraction	ND		0.119	1	05/17/2017 02:49	<u>WG980234</u>
(S) a,a,a-Trifluorotoluene(FID)	94.5		77.0-120		05/17/2017 02:49	<u>WG980234</u>
(S) a,a,a-Trifluorotoluene(PID)	99.4		75.0-128		05/17/2017 02:49	<u>WG980234</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	18.1		4.76	1	05/15/2017 15:04	<u>WG979481</u>
C28-C40 Oil Range	ND		4.76	1	05/15/2017 15:04	<u>WG979481</u>
(S) o-Terphenyl	74.0		18.0-148		05/15/2017 15:04	<u>WG979481</u>



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.9		1	05/16/2017 07:26	WG979734

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	ND		0.000604	.99	05/17/2017 03:11	WG980234
Toluene	ND		0.00604	.99	05/17/2017 03:11	WG980234
Ethylbenzene	ND		0.000604	.99	05/17/2017 03:11	WG980234
Total Xylene	ND		0.00181	.99	05/17/2017 03:11	WG980234
TPH (GC/FID) Low Fraction	ND		0.121	.99	05/17/2017 03:11	WG980234
(S) o,a,a-Trifluorotoluene(FID)	95.2		77.0-120		05/17/2017 03:11	WG980234
(S) o,a,a-Trifluorotoluene(PID)	101		75.0-128		05/17/2017 03:11	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	ND		4.88	1	05/15/2017 15:17	WG979481
C28-C40 Oil Range	ND		4.88	1	05/15/2017 15:17	WG979481
(S) o-Terphenyl	95.8		18.0-148		05/15/2017 15:17	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.6		1	05/16/2017 07:26	WG979734

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.00364		0.000613	1	05/17/2017 03:34	WG980234
Toluene	0.00784		0.00613	1	05/17/2017 03:34	WG980234
Ethylbenzene	0.00923		0.000613	1	05/17/2017 03:34	WG980234
Total Xylene	0.0470		0.00184	1	05/17/2017 03:34	WG980234
TPH (GC/FID) Low Fraction	0.786		0.123	1	05/17/2017 03:34	WG980234
(S) o,a,a-Trifluorotoluene(FID)	94.6		77.0-120		05/17/2017 03:34	WG980234
(S) o,a,a-Trifluorotoluene(PID)	100		75.0-128		05/17/2017 03:34	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	43.4		4.90	1	05/15/2017 15:31	WG979481
C28-C40 Oil Range	ND		4.90	1	05/15/2017 15:31	WG979481
(S) o-Terphenyl	85.8		18.0-148		05/15/2017 15:31	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	76.5		1	05/16/2017 07:26	WG979734

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	0.00111		0.000640	.98	05/17/2017 03:56	WG980234
Toluene	ND		0.00640	.98	05/17/2017 03:56	WG980234
Ethylbenzene	0.00211		0.000640	.98	05/17/2017 03:56	WG980234
Total Xylene	0.00974		0.00192	.98	05/17/2017 03:56	WG980234
TPH (GC/FID) Low Fraction	0.430		0.128	.98	05/17/2017 03:56	WG980234
(S) a,a,a-Trifluorotoluene(FID)	95.0		77.0-120		05/17/2017 03:56	WG980234
(S) a,a,a-Trifluorotoluene(PID)	100		75.0-128		05/17/2017 03:56	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	6.97		5.23	1	05/15/2017 15:45	WG979481
C28-C40 Oil Range	ND		5.23	1	05/15/2017 15:45	WG979481
(S) o-Terphenyl	80.0		18.0-148		05/15/2017 15:45	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.5		1	05/16/2017 07:26	WG979734

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	0.00243		0.000593	.99	05/17/2017 04:18	WG980234
Toluene	0.00682		0.00593	.99	05/17/2017 04:18	WG980234
Ethylbenzene	0.0149		0.000593	.99	05/17/2017 04:18	WG980234
Total Xylene	0.0940		0.00178	.99	05/17/2017 04:18	WG980234
TPH (GC/FID) Low Fraction	4.48		0.119	.99	05/17/2017 04:18	WG980234
(S) o,a,a-Trifluorotoluene(FID)	94.4		77.0-120		05/17/2017 04:18	WG980234
(S) o,a,a-Trifluorotoluene(PID)	100		75.0-128		05/17/2017 04:18	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	146		4.79	1	05/15/2017 15:59	WG979481
C28-C40 Oil Range	ND		4.79	1	05/15/2017 15:59	WG979481
(S) o-Terphenyl	75.1		18.0-148		05/15/2017 15:59	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	05/16/2017 07:26	WG979734

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.00138		0.000603	1	05/17/2017 04:41	WG980234
Toluene	ND		0.00603	1	05/17/2017 04:41	WG980234
Ethylbenzene	0.00362		0.000603	1	05/17/2017 04:41	WG980234
Total Xylene	0.00777		0.00181	1	05/17/2017 04:41	WG980234
TPH (GC/FID) Low Fraction	1.30		0.121	1	05/17/2017 04:41	WG980234
(S) a,a,a-Trifluorotoluene(FID)	95.5		77.0-120		05/17/2017 04:41	WG980234
(S) a,a,a-Trifluorotoluene(PID)	101		75.0-128		05/17/2017 04:41	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	99.3		4.82	1	05/15/2017 16:13	WG979481
C28-C40 Oil Range	ND		4.82	1	05/15/2017 16:13	WG979481
(S) o-Terphenyl	79.3		18.0-148		05/15/2017 16:13	WG979481



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.8		1	05/16/2017 07:26	WG979734

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Benzene	0.00427		0.000680	.99	05/17/2017 05:03	WG980234
Toluene	0.0136		0.00680	.99	05/17/2017 05:03	WG980234
Ethylbenzene	0.0118		0.000680	.99	05/17/2017 05:03	WG980234
Total Xylene	0.0676		0.00204	.99	05/17/2017 05:03	WG980234
TPH (GC/FID) Low Fraction	2.73		0.136	.99	05/17/2017 05:03	WG980234
(S) a,a,a-Trifluorotoluene(FID)	90.7		77.0-120		05/17/2017 05:03	WG980234
(S) a,a,a-Trifluorotoluene(PID)	99.9		75.0-128		05/17/2017 05:03	WG980234

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
C10-C28 Diesel Range	29.4		5.50	1	05/15/2017 16:28	WG979481
C28-C40 Oil Range	ND		5.50	1	05/15/2017 16:28	WG979481
(S) o-Terphenyl	82.0		18.0-148		05/15/2017 16:28	WG979481

WG979733

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

L908977-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3218542-1 05/16/17 07:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000900			

L908977-09 Original Sample (OS) • Duplicate (DUP)

(OS) L908977-09 05/16/17 07:37 • (DUP) R3218542-3 05/16/17 07:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	80.5	79.2	1	1.57		5

Laboratory Control Sample (LCS)

(LCS) R3218542-2 05/16/17 07:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
30-045-33446

SDG:
L908977

DATE/T
05/17/17

WG979734

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARYL908977-10,11,12,13,14,15,16

Method Blank (MB)

(MB) R3218540-1 05/16/17 07:26

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000400			

L908978-03 Original Sample (OS) • Duplicate (DUP)

(OS) L908978-03 05/16/17 07:26 • (DUP) R3218540-3 05/16/17 07:26

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	88.8	87.2	1	1.88		5

Laboratory Control Sample (LCS)

(LCS) R3218540-2 05/16/17 07:26

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
30-045-33446SDG:
L908977DATE/T
05/17/17

WG980234

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

L908977-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

Method Blank (MB)

(MB) R3218638-5 05/16/17 20:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000355	J	0.000150	0.00500
Ethylbenzene	0.000152	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	105			75.0-128

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3218638-1 05/16/17 18:46 • (LCSD) R3218638-2 05/16/17 19:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0500	0.0526	100	105	71.0-121			5.06	20
Toluene	0.0500	0.0527	0.0530	105	106	72.0-120			0.640	20
Ethylbenzene	0.0500	0.0535	0.0542	107	108	76.0-121			1.18	20
Total Xylene	0.150	0.164	0.163	109	109	75.0-124			0.730	20
(S) a,a,a-Trifluorotoluene(FID)				98.7	97.9	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				103	102	75.0-128				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3218638-3 05/16/17 19:30 • (LCSD) R3218638-4 05/16/17 19:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.42	6.43	117	117	70.0-136			0.0200	20
(S) a,a,a-Trifluorotoluene(FID)				103	102	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				113	112	75.0-128				

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
30-045-33446SDG:
L908977DATE/T
05/17/17

Method Blank (MB)

(MB) R3218164-1 05/15/17 10:34				
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	82.9			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3218164-2 05/15/17 10:47 • (LCSD) R3218164-3 05/15/17 11:00										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
C10-C28 Diesel Range	60.0	44.6	46.3	74.3	77.2	50.0-150			3.80	20
(S) o-Terphenyl				96.3	97.8	18.0-148				



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
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B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

C

T

S

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ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

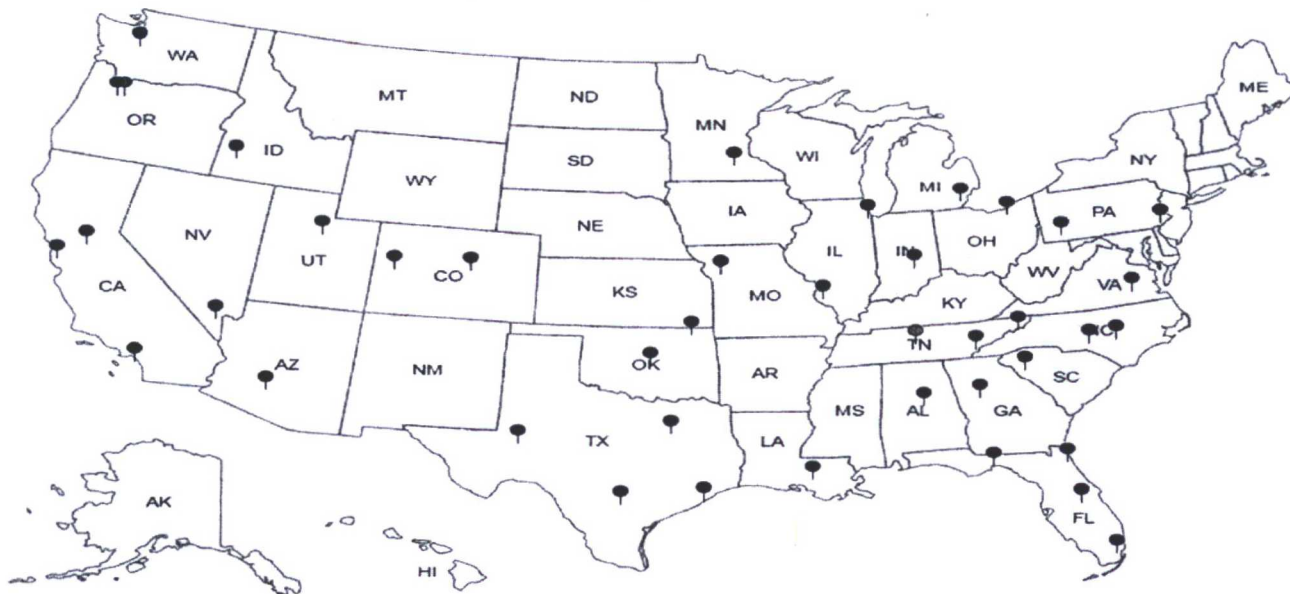
Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ¹⁴ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:



Quote Number

Page ____ of ____

XTO Contact

KURT

XTO Contact Phone #

505-486-9543

Email Results to:

JAMES, KURT, LOGAN

Well Site/Location

PO Pipkin #16F

API Number

30-045-33446

Saturday Delivery (Y/N)

Collected By

KURT

Samples on Ice

(Y/N)

Turnaround

Standard

Next Day

Two Day

☒ Three Day

Same Day

Company

XTO

Test Reason

SPILL

Signature

Gray Areas for Lab Use Only!

Date Needed

Analysis/Cor

8015 DRP/Geo/ORD

8021 BTEX

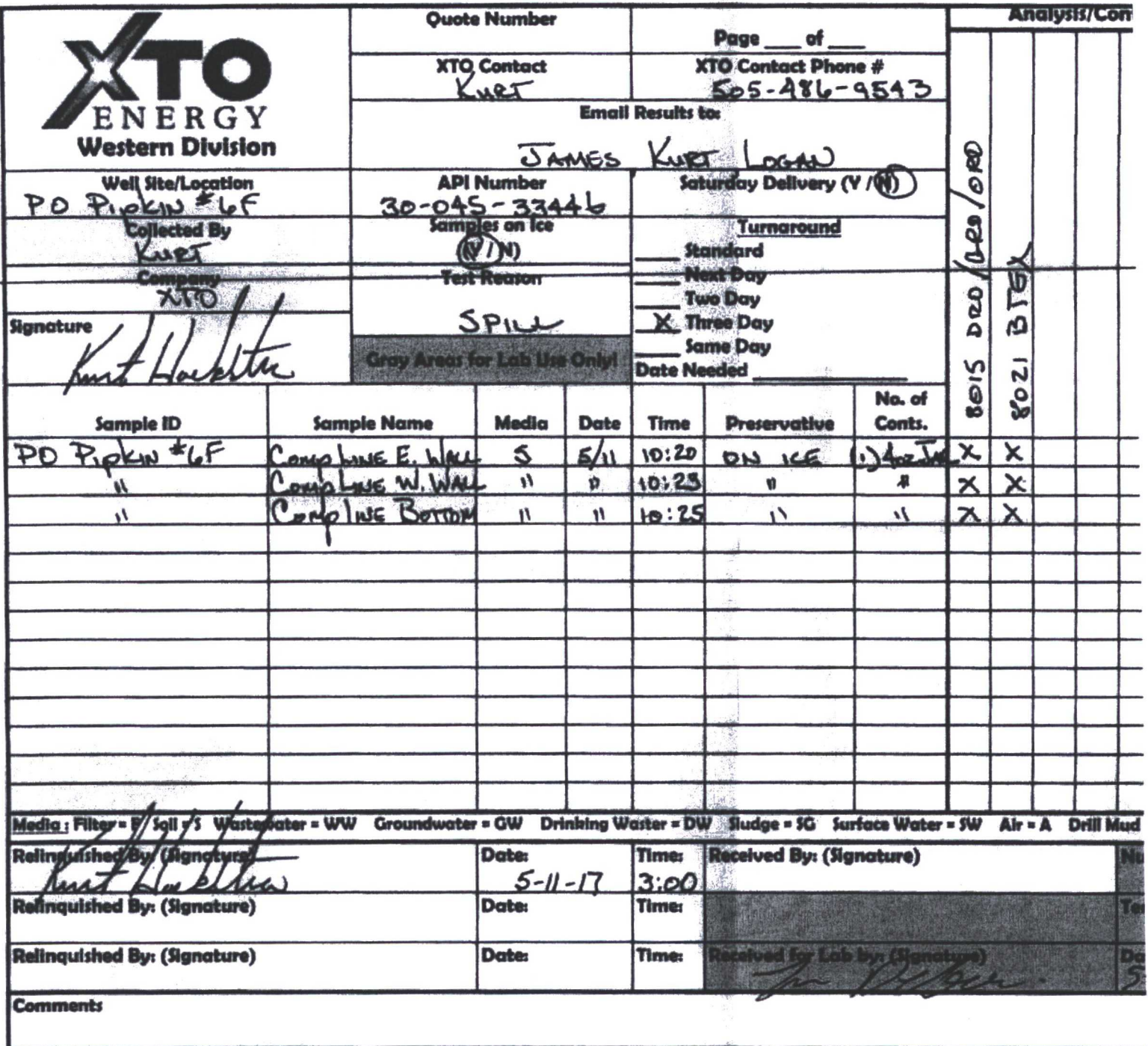
Sample ID	Sample Name	Media	Date	Time	Preservative	No. of Conts.				
PO Pipkin #16F	L.L. N. WALL	S	5/11	9:52	ON ICE	(1) 4oz Jar	X	X		
"	L.L. N. WALL	"	"	9:53	"	"	X	X		
"	L.L. E. WALL	"	"	9:55	"	"	X	X		
"	L.L. S. WALL	"	"	9:56	"	"	X	X		
"	L.L. BOTTOM	"	"	9:58	"	"	X	X		
"	N 1/2 N WALL	"	"	10:03	"	"	X	X		
"	N 1/2 W WALL	"	"	10:05	"	"	X	X		
"	N 1/2 E. WALL	"	"	10:07	"	"	X	X		
"	N 1/2 BOTTOM	"	"	10:09	"	"	X	X		
"	S 1/2 SW WALL	"	"	10:13	"	"	X	X		
"	S 1/2 NW WALL	"	"	10:15	"	"	X	X		
"	S 1/2 E. WALL	"	"	10:16	"	"	X	X		
"	S 1/2 BOTTOM	"	"	10:18	"	"	X	X		

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

Relinquished By: (Signature)	Date: 5-11-17	Time: 3:00	Received By: (Signature)	
Relinquished By: (Signature)	Date:	Time:	7305 8947 4871	
Relinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature)	

Comments

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



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

ESC LAB SCIENCES
Cooler Receipt Form

Client:	XTobryn	SDG#	926
Cooler Received/Opened On:	5/ 12 /17	Temperature:	3.0
Received By:	Jon Deboard		
Signature:	<i>Jon Deboard</i>		
Receipt Check List			
	NP		Yes
COC Seal Present / Intact?	/		
COC Signed / Accurate?			/
Bottles arrive intact?			/
Correct bottles used?			/
Sufficient volume sent?			/
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			