

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

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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: OH Randel # 7	Facility Type: Gas Well (Basin Dakota)

Surface Owner: Tribal	Mineral Owner	API No.: 30-045-24749
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	15	26N	11W	1150	FNL	1150	FWL	OIL CONS. DIV DIST. 3

Latitude 36.49194 Longitude -107.99572

**AUG 01 2014**

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 4-11-2014
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.\*

Describe Cause of Problem and Remedial Action Taken.\* The below grade tank was removed at the OH Randel # 7 well site due to P & A of the location. The soil beneath the BGT was sampled for TPH via USEPA Method 8015 and 418.1, for BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for benzene, total BTEX, and chlorides, but above the TPH Standard of 100 ppm at 2450 ppm via USEPA Method 418.1, confirming that a release has occurred at this location. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 20 due to an estimated depth to groundwater of less than 50 feet, distance to a water well greater than 1000 feet, and distance to surface water greater than 1000 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.\* Based on TPH results of 2450 ppm via USEPA Method 418.1, a release has been confirmed at this location. Additional samples were collected with a hand auger at depths of 6" to 12", 18" to 24", and 30" to 36" returning results via USEPA Method 8015 of TPH 334 ppm, 60.6 ppm, and 663 ppm respectively. A one call was made and the below grade pit was excavated. The BGT cellar was excavated to approximately 18'x16'x12' deep, wall samples were collected at 12' deep and were below standards for BTEX at < 0.05 ppm and TPH USEPA method 8015 at < 34.99ppm. The bottom was below closure standards for BTEX at 2.89 ppm but still above closure standards for TPH at 392 ppm USEPA Method 8015. The excavation continued to approximately 20'x18'x20' deep, a composite sample was collected from the bottom and returned results of < 35 ppm TPH USEPA Method 8015, this is below the guidelines for the Remediation of leaks, Spills and Releases. The excavation was backfilled, 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.

**OIL CONSERVATION DIVISION**

Signature: <i>Kurt Hoekstra</i>	Approved by Environmental Specialist: <i>Jonell D. Kelly</i>	
Printed Name: Kurt Hoekstra		
Title: EHS Coordinator	Approval Date: <i>8/2/2014</i>	Expiration Date:
E-mail Address: Kurt.Hoekstra@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-30-2014	Phone: 505-333-3100	

*NJK 1423342356*



## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0380

Samples Received: 4/10/2014 12:06:00PM

Job Number: 98031-0528

Work Order: P404030

Project Name/Location: OH Randel #7

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 4/14/14

Tim Cain, Laboratory Manager

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: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

Reported:  
14-Apr-14 09:34

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Comp	P404030-01A	Soil	04/09/14	04/10/14	Glass Jar, 4 oz.

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

Reported:  
14-Apr-14 09:34

**BGT Comp**  
**P404030-01 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	2450	20.0	mg/kg	1	1415036	04/11/14	04/11/14	EPA 418.1		

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Project Number: 98031-0528  
Project Manager: James McDaniel

Reported:  
14-Apr-14 09:34

### Total Petroleum Hydrocarbons by 418.1 - 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 1415036 - 418 Freon Extraction

##### Blank (1415036-BLK1)

Prepared & Analyzed: 11-Apr-14

Total Petroleum Hydrocarbons ND 20.0 mg/kg

##### Duplicate (1415036-DUP1)

Source: P404030-01

Prepared & Analyzed: 11-Apr-14

Total Petroleum Hydrocarbons 3310 20.0 mg/kg 2450 29.9 30

##### Matrix Spike (1415036-MS1)

Source: P404030-01

Prepared & Analyzed: 11-Apr-14

Total Petroleum Hydrocarbons 4800 200 mg/kg 2000 2450 118 80-120

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Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
14-Apr-14 09:34

#### Notes and Definitions

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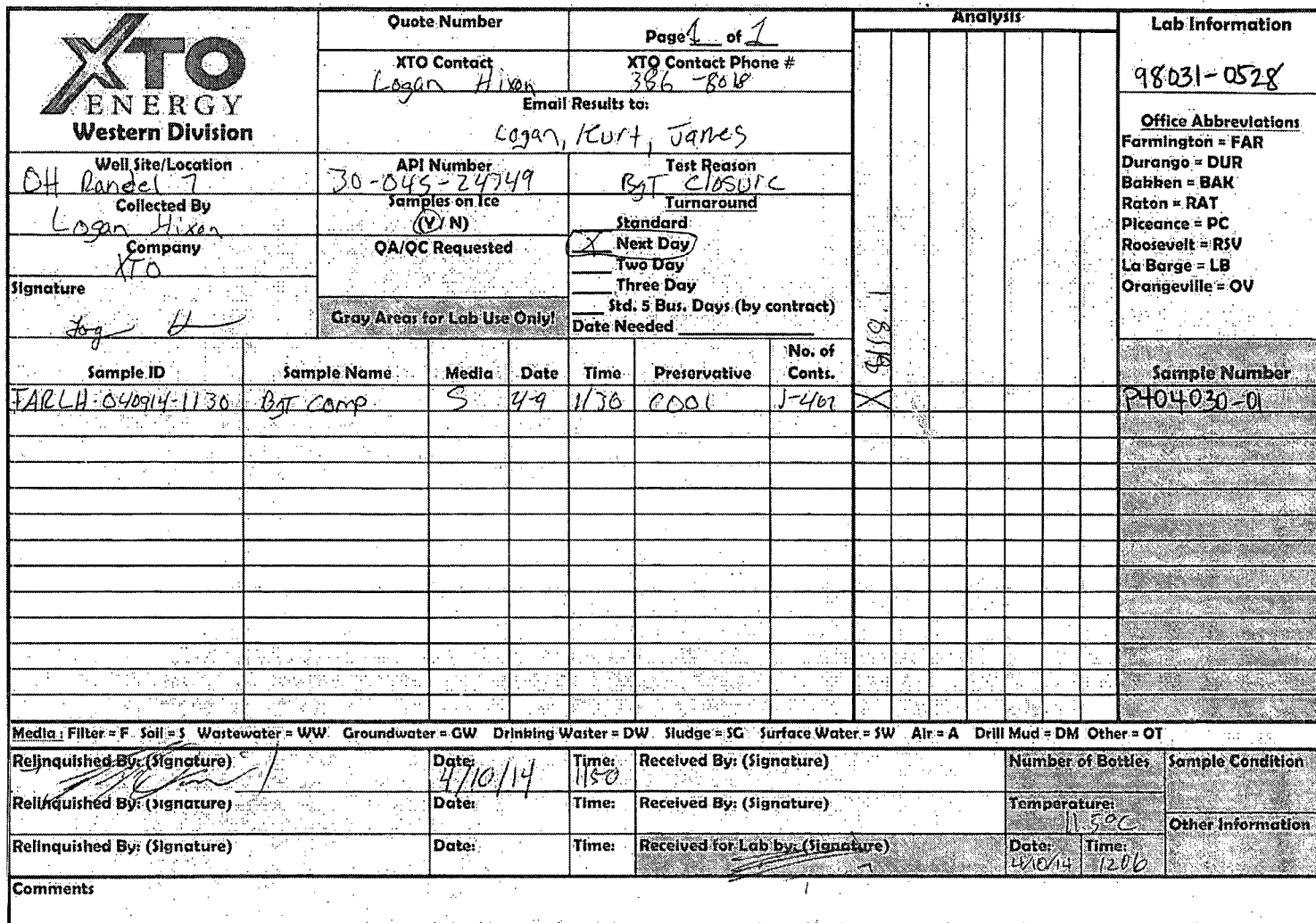
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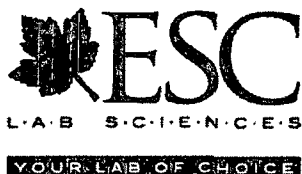
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\* Sample ID will be the office and sampler-date:military time FARJM-MMDDYY-1200

0380



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

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Est. 1970

Logan Hixon  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

### Report Summary

Monday April 14, 2014

Report Number: L693177

Samples Received: 04/11/14

Client Project: 30-045-24749

Description: BGT Closure

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Mt. Juliet, TN 37122  
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# REPORT OF ANALYSIS

April 14, 2014

Logan Hixon  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

ESC Sample # : L693177-01

Date Received : April 11, 2014  
Description : BGT Closure

Site ID : OH RANDEL 7

Sample ID : FARLH040914-1130

Project # : 30-045-24749

Collected By : Logan Hixon  
Collection Date : 04/09/14 11:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	22.	12.	mg/kg	9056	04/12/14	1
Total Solids	85.3		%	2540 G-2011	04/12/14	1
Benzene	BDL	0.0029	mg/kg	8021/8015	04/12/14	5
Toluene	BDL	0.029	mg/kg	8021/8015	04/12/14	5
Ethylbenzene	BDL	0.0029	mg/kg	8021/8015	04/12/14	5
Total Xylene	0.048	0.0088	mg/kg	8021/8015	04/12/14	5
TPH (GC/FID) Low Fraction	4.7	0.59	mg/kg	GRO	04/12/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.1		% Rec.	8021/8015	04/12/14	5
a,a,a-Trifluorotoluene(PID)	98.8		% Rec.	8021/8015	04/12/14	5
TPH (GC/FID) High Fraction	1900	47.	mg/kg	3546/DRO	04/13/14	10
Surrogate recovery(%)						
o-Terphenyl	105.		% Rec.	3546/DRO	04/13/14	10

Results listed are dry weight basis.

BDL ~ Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 04/14/14 12:57 Printed: 04/14/14 12:57



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XTO Energy - San Juan Division  
Logan Hixon  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L693177

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Mt. Juliet, TN 37122  
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1-800-767-5859  
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April 14, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Total Solids	< .1	%			WG715632	04/12/14 09:55
Chloride	< 10	mg/kg			WG715706	04/12/14 11:17
TPH (GC/FID) High Fraction o-Terphenyl	< 4	mg/kg % Rec.	96.20	50-150	WG715730	04/13/14 11:12 WG715730 04/13/14 11:12
Benzene	< .0005	mg/kg			WG715377	04/12/14 19:26
Ethylbenzene	< .0005	mg/kg			WG715377	04/12/14 19:26
Toluene	< .005	mg/kg			WG715377	04/12/14 19:26
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG715377	04/12/14 19:26
Total Xylene	< .0015	mg/kg			WG715377	04/12/14 19:26
a,a,a-Trifluorotoluene(FID)		% Rec.	98.40	59-128	WG715377	04/12/14 19:26
a,a,a-Trifluorotoluene(PID)		% Rec.	103.0	54-144	WG715377	04/12/14 19:26

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	73.4	73.8	0.661	5	L693193-02	WG715632
Chloride	mg/kg	4300	4300	0.0	20	L693036-02	WG715706
Chloride	mg/kg	20.0	22.0	9.52	20	L693244-01	WG715706

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Total Solids	%	50	49.9	99.8	85-115	WG715632
Chloride	mg/kg	200	207.	104.	80-120	WG715706
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	60	54.1	90.2 95.60	50-150 50-150	WG715730 WG715730
Benzene	mg/kg	.05	0.0428	85.6	70-130	WG715377
Ethylbenzene	mg/kg	.05	0.0457	91.3	70-130	WG715377
Toluene	mg/kg	.05	0.0449	89.8	70-130	WG715377
Total Xylene	mg/kg	.15	0.140	93.0	70-130	WG715377
a,a,a-Trifluorotoluene(FID)				98.60	59-128	WG715377
a,a,a-Trifluorotoluene(PID)				103.0	54-144	WG715377
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.46	81.0	63.5-137	WG715377
a,a,a-Trifluorotoluene(FID)				98.80	59-128	WG715377
a,a,a-Trifluorotoluene(PID)				111.0	54-144	WG715377

Analyte	Units	Laboratory Control Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec			
Chloride	mg/kg	208.	207.	104.	80-120	0.482	20 WG715706
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	52.7	54.1	88.0 99.20	50-150 50-150	2.75	20 WG715730 WG715730

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0426	0.0428	85.0	70-130	0.400	20	WG715377
Ethylbenzene	mg/kg	0.0452	0.0457	90.0	70-130	0.950	20	WG715377
Toluene	mg/kg	0.0447	0.0449	89.0	70-130	0.490	20	WG715377
Total Xylene	mg/kg	0.139	0.140	92.0	70-130	0.730	20	WG715377
a,a,a-Trifluorotoluene (FID)				98.90	59-128			WG715377
a,a,a-Trifluorotoluene (PID)				103.0	54-144			WG715377
TPH (GC/FID) Low Fraction	mg/kg	4.63	4.46	84.0	63.5-137	3.85	20	WG715377
a,a,a-Trifluorotoluene (FID)				100.0	59-128			WG715377
a,a,a-Trifluorotoluene (PID)				111.0	54-144			WG715377

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Chloride	mg/kg	801.	280.	500	100.	80-120	L693036-03	WG715706
TPH (GC/FID) High Fraction	mg/kg	48.4	3.31	60	75.0	50-150	L693256-01	WG715730
o-Terphenyl					96.70	50-150		WG715730
Benzene	mg/kg	0.209	0.000494	.05	84.0	49.7-127	L692513-03	WG715377
Ethylbenzene	mg/kg	0.222	0.000390	.05	88.0	40.8-141	L692513-03	WG715377
Toluene	mg/kg	0.222	0.00114	.05	88.0	49.8-132	L692513-03	WG715377
Total Xylene	mg/kg	0.676	0.00149	.15	90.0	41.2-140	L692513-03	WG715377
a,a,a-Trifluorotoluene (FID)					98.10	59-128		WG715377
a,a,a-Trifluorotoluene (PID)					102.0	54-144		WG715377
TPH (GC/FID) Low Fraction	mg/kg	20.0	0.0	5.5	73.0	28.5-138	L692513-03	WG715377
a,a,a-Trifluorotoluene (FID)					98.80	59-128		WG715377
a,a,a-Trifluorotoluene (PID)					109.0	54-144		WG715377

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Chloride	mg/kg	793.	801.	103.	80-120	1.00	20	L693036-03	WG715706
TPH (GC/FID) High Fraction	mg/kg	47.6	48.4	73.8	50-150	1.67	20	L693256-01	WG715730
o-Terphenyl				104.0	50-150				WG715730
Benzene	mg/kg	0.216	0.209	86.2	49.7-127	3.05	23.5	L692513-03	WG715377
Ethylbenzene	mg/kg	0.228	0.222	90.8	40.8-141	2.66	23.8	L692513-03	WG715377
Toluene	mg/kg	0.226	0.222	89.9	49.8-132	1.82	23.5	L692513-03	WG715377
Total Xylene	mg/kg	0.695	0.676	92.5	41.2-140	2.72	23.7	L692513-03	WG715377
a,a,a-Trifluorotoluene (FID)				98.10	59-128				WG715377
a,a,a-Trifluorotoluene (PID)				102.0	54-144				WG715377
TPH (GC/FID) Low Fraction	mg/kg	22.0	20.0	79.9	28.5-138	9.15	23.6	L692513-03	WG715377
a,a,a-Trifluorotoluene (FID)				98.30	59-128				WG715377
a,a,a-Trifluorotoluene (PID)				110.0	54-144				WG715377

Batch number /Run number / Sample number cross reference

WG715632: R2903923: L693177-01

WG715706: R2904248: L693177-01

WG715730: R2904251: L693177-01

WG715377: R2904307: L693177-01

\* \* Calculations are performed prior to rounding of reported values.

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



**YOUR LAB OF CHOICE**

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L693177

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April 14, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.





## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0470

Samples Received: 4/15/2014 11:05:00AM

Job Number: 98031-0528

Work Order: P404043

Project Name/Location: OH Randel #7

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 4/17/14

Tim Cain, Laboratory Manager

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: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
17-Apr-14 08:36

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT 6" to 12"	P404043-01A	Soil	04/15/14	04/15/14	Glass Jar, 4 oz.
BGT 18" to 24"	P404043-02A	Soil	04/15/14	04/15/14	Glass Jar, 4 oz.
BGT 30" to 36"	P404043-03A	Soil	04/15/14	04/15/14	Glass Jar, 4 oz.

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laboratory@envirotech-inc.com



XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

Reported:  
17-Apr-14 08:36

**BGT 6" to 12"**  
**P404043-01 (Solid)**

Analyte	Reporting								
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1416012	04/15/14	04/15/14	EPA 8015D	
Diesel Range Organics (C10-C28)	334	30.0	mg/kg	1	1416011	04/15/14	04/15/14	EPA 8015D	

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
17-Apr-14 08:36

**BGT 18" to 24"**  
**P404043-02 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1416012	04/15/14	04/15/14	EPA 8015D	
Diesel Range Organics (C10-C28)	60.6	29.9	mg/kg	1	1416011	04/15/14	04/15/14	EPA 8015D	

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
17-Apr-14 08:36

**BGT 30" to 36"**  
**P404043-03 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**Nonhalogenated Organics by 8015**

Gasoline Range Organics (C6-C10)	<b>54.1</b>	4.99	mg/kg	1	1416012	04/15/14	04/15/14	EPA 8015D	
Diesel Range Organics (C10-C28)	<b>609</b>	29.9	mg/kg	1	1416011	04/15/14	04/15/14	EPA 8015D	

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
17-Apr-14 08:36

### 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
<b>Batch 1416011 - DRO Extraction EPA 3550C</b>										
<b>Blank (1416011-BLK1)</b>				Prepared: 14-Apr-14 Analyzed: 15-Apr-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
<b>Duplicate (1416011-DUP1)</b>				Source: P404042-01 Prepared: 14-Apr-14 Analyzed: 15-Apr-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
<b>Matrix Spike (1416011-MS1)</b>				Source: P404042-01 Prepared: 14-Apr-14 Analyzed: 15-Apr-14						
Diesel Range Organics (C10-C28)	239		mg/L	250	5.82	93.4	75-125			

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XTO Energy Inc.	Project Name:	OH Randel #7	Reported: 17-Apr-14 08:36
382 CR 3100	Project Number:	98031-0528	
Aztec NM, 87410	Project Manager:	James McDaniel	

### 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
<b>Batch 1416012 - Purge and Trap EPA 5030A</b>										
<b>Blank (1416012-BLK1)</b>				Prepared: 14-Apr-14 Analyzed: 15-Apr-14						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
<b>Duplicate (1416012-DUP1)</b>				Source: P404042-01 Prepared: 14-Apr-14 Analyzed: 15-Apr-14						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
<b>Matrix Spike (1416012-MS1)</b>				Source: P404042-01 Prepared: 14-Apr-14 Analyzed: 15-Apr-14						
Gasoline Range Organics (C6-C10)	0.62		mg/L	0.450	0.001	139	75-125			SPK1

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
17-Apr-14 08:36

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

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

18.5 18.8 18.4

18.6

0470



## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0451

Samples Received: 5/6/2014 2:47:00PM

Job Number: 98031-0528

Work Order: P405009

Project Name/Location: OH Randel #7

Entire Report Reviewed By: Draft Date: 5/7/14  
Tim Cain, Laboratory Manager

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: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
07-May-14 17:05

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom 12'	P405009-01A	Soil	05/06/14	05/06/14	Glass Jar, 4 oz.
Walls	P405009-02A	Soil	05/06/14	05/06/14	Glass Jar, 4 oz.

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

Reported:  
07-May-14 17:05

**DRAFT: Bottom 12'**  
**P405009-01 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
DRAFT: Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8021B	
Toluene	0.14	0.05	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8021B	
Ethylbenzene	0.50	0.05	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8021B	
p,m-Xylene	2.14	0.05	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8021B	
o-Xylene	0.11	0.05	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8021B	
Total Xylenes	2.25	0.05	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8021B	
Total BTEX	2.89	0.05	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8021B	
Surrogate: Bromochlorobenzene		140 %		80-120		1419008	05/06/14	05/07/14	EPA 8021B	Surr1
Surrogate: 1,3-Dichlorobenzene		122 %		80-120		1419008	05/06/14	05/07/14	EPA 8021B	Surr1
DRAFT: Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	58.3	5.00	mg/kg	1		1419008	05/06/14	05/07/14	EPA 8015D	
Diesel Range Organics (C10-C28)	334	29.9	mg/kg	1		1419007	05/06/14	05/07/14	EPA 8015D	

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
07-May-14 17:05

**DRAFT: Walls**  
**P405009-02 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
DRAFT: Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Surrogate: Bromochlorobenzene		109 %		80-120	1419008	05/06/14	05/07/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		101 %		80-120	1419008	05/06/14	05/07/14	EPA 8021B	
DRAFT: Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1419007	05/06/14	05/07/14	EPA 8015D	

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: OH Randel #7 Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 07-May-14 17:05
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**DRAFT: 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 1419008 - Purge and Trap EPA 5030A**

**Blank (1419008-BLK1)**

Prepared: 06-May-14 Analyzed: 07-May-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	42.4		ug/L	50.0		84.8	80-120			
Surrogate: Bromochlorobenzene	45.9		"	50.0		91.8	80-120			

**Duplicate (1419008-DUP1)**

Source: P405008-01

Prepared: 06-May-14 Analyzed: 07-May-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	52.9		ug/L	50.0		106	80-120			
Surrogate: Bromochlorobenzene	57.6		"	50.0		115	80-120			

**Matrix Spike (1419008-MS1)**

Source: P405008-01

Prepared: 06-May-14 Analyzed: 07-May-14

Benzene	48.4		ug/L	50.0	ND	96.9	39-150			
Toluene	49.0		"	50.0	ND	98.0	46-148			
Ethylbenzene	49.8		"	50.0	ND	99.5	32-160			
p,m-Xylene	98.6		"	100	ND	98.6	46-148			
o-Xylene	50.1		"	50.0	ND	100	46-148			
Surrogate: 1,3-Dichlorobenzene	51.1		"	50.0		102	80-120			
Surrogate: Bromochlorobenzene	55.9		"	50.0		112	80-120			

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
07-May-14 17:05

**DRAFT: 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
<b>Batch 1419007 - DRO Extraction EPA 3550C</b>										
<b>Blank (1419007-BLK1)</b>				Prepared & Analyzed: 06-May-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1419007-DUP1)</b>				Source: P405008-01 Prepared & Analyzed: 06-May-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
<b>Matrix Spike (1419007-MS1)</b>				Source: P405008-01 Prepared & Analyzed: 06-May-14						
Diesel Range Organics (C10-C28)	220		mg/L	250	10.9	83.6	75-125			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: OH Randel #7 Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 07-May-14 17:05
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**DRAFT: 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
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**Batch 1419008 - Purge and Trap EPA 5030A**

<b>Blank (1419008-BLK1)</b>		Prepared: 06-May-14 Analyzed: 07-May-14								
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
<b>Duplicate (1419008-DUP1)</b>		<b>Source: P405008-01</b>		Prepared: 06-May-14 Analyzed: 07-May-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
<b>Matrix Spike (1419008-MS1)</b>		<b>Source: P405008-01</b>		Prepared: 06-May-14 Analyzed: 07-May-14						
Gasoline Range Organics (C6-C10)	0.46		mg/L	0.450	ND	101	75-125			

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382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
07-May-14 17:05

#### Notes and Definitions

Surr1 Surrogate recovery was above acceptable limits.  
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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## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0473

Samples Received: 5/9/2014 3:55:00PM

Job Number: 98031-0528

Work Order: P405021

Project Name/Location: OH Randel #7

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 5/12/14

Tim Cain, Laboratory Manager

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
12-May-14 13:05

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Botom 20'	P405021-01A	Soil	05/09/14	05/09/14	Glass Jar, 4 oz.

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
12-May-14 13:05

**Botom 20'**  
**P405021-01 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1420004	05/12/14	05/12/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1420005	05/12/14	05/12/14	EPA 8015D		

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
12-May-14 13:05

### 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
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#### Batch 1420004 - Purge and Trap EPA 5030A

##### Blank (1420004-BLK1)

Prepared & Analyzed: 12-May-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

##### Duplicate (1420004-DUP1)

Source: P405021-01

Prepared & Analyzed: 12-May-14

Gasoline Range Organics (C6-C10) ND 5.00 mg/kg ND 30

##### Matrix Spike (1420004-MS1)

Source: P405021-01

Prepared & Analyzed: 12-May-14

Gasoline Range Organics (C6-C10) 0.46 mg/L 0.450 0.06 89.4 75-125

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
12-May-14 13:05

### 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
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#### Batch 1420005 - DRO Extraction EPA 3550C

##### Blank (1420005-BLK1)

Prepared & Analyzed: 12-May-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg

##### Duplicate (1420005-DUP1)

Source: P405021-01

Prepared & Analyzed: 12-May-14

Diesel Range Organics (C10-C28) ND 30.0 mg/kg ND 30

##### Matrix Spike (1420005-MS1)

Source: P405021-01

Prepared & Analyzed: 12-May-14

Diesel Range Organics (C10-C28) 291 mg/L 250 10.2 112 75-125

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5796 US Highway 64, Farmington, NM 87401

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

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com



XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: OH Randel #7  
Project Number: 98031-0528  
Project Manager: James McDaniel

**Reported:**  
12-May-14 13:05

#### Notes and Definitions

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

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