<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
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

Revised August 8, 2011

Form C-141

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

Release Notification and Corrective Action

						OPERA	ΓOR		Initia	al Report	\boxtimes	Final Report			
Name of Co	mpany: X	TO Energy,	Inc.			Contact: Ku	rt Hoekstra								
Address: 38	2 Road 31	00, Aztec, N	ew Mexi	co 87410	′	Telephone No.: (505) 333-3100									
Facility Nar	ne: Bolack	4 # 3				Facility Typ	e: Gas Well (Ba	ısin Fru	itland Co	al)					
Surface Ow	ner: Feder	al		Mineral Ov	vner		32049								
				LOCA	TION	N OF REI	FASE								
Unit Letter	Section	Township	Range			South Line	Feet from the	East/V	Vest Line	County					
ome Bone.			11	10001101110111		204		2000							
C	4	27N	11W	980	F	NL	1490	<u>F</u>	WL	San Juan					
				Latitude 36.60	875	Longit	ıde -108. 01306								
						OF REL		•							
Type of Rele	ase: Produc	ed Water					Release: Unknow	vn	Volume I	Recovered: 1	None				
		w Grade Tank				Date and F Unknown	lour of Occurrence	e:	Date and	Hour of Dis	covery	: 3-28-2014			
Was Immedi	ate Notice (Given?				If YES, To	Whom?								
			Yes	No 🛛 Not Red	quired										
By Whom?						Date and I									
Was a Water	course Read		Yes 🗵] No		If YES, Vo	olume Impacting t	he Wate	ercourse.	DIL CONS	3. DIV	DIST. 3			
If a Watercon	urse was Im	pacted, Descr	ibe Fully	*		1				CED,	0 5 2	2N14			
II u Wateree		pacied, Desci	ioo r any.							JE1-	V 0 1	-011			
				n Taken.* The belo			·				<u>.</u>				
sample return at 410 ppm v Guidelines for distance to a	ned results by the USEPA of the Reme water well	pelow the 'Pit Method 9056, diation of Lea	Rule' spil confirmin ks, Spills 000 feet, a	via USEPA Methol confirmation star g that a release has and Releases. The and distance to surf	dards foccurr site wa	for benzene, to red at this loc as ranked a 0	otal BTEX ,and T ation. The site wa due to an estimate	PH, but s then ra ed depth	above the anked according to groundy	Chloride Solding to the water of great	tandard NMOC ater tha	of 250 ppm CD n 100 feet,			
Describe Are Remediation	ea Affected of Leaks, S	and Cleanup A	Action Tal ases stand	ken.* Based on chl lards. No further ac	oride r	results of 410 required.	ppm via USEPA	Method	9056 this	is below the	Guidel	ines for the			
regulations a public health should their or the enviro	Il operators or the envious hoperations homent. In a	are required to ronment. The nave failed to	o report a acceptanadequately acceptanadequately	e is true and compled is true and compled in don't file certain receive of a C-141 reportance of a C-141 report	clease not the content of the conten	otifications a e NMOCD m e contaminat	nd perform correct larked as "Final Rition that pose a thrive the operator of	etive act leport" of reat to grespons	ions for rel loes not rel round wate ibility for c	eases which ieve the ope r, surface w compliance v	may enerator of ater, hu	ndanger f liability ıman health			
							OIL CON	<u>SERV</u>	<u>'ATION</u>	DIVISIO	<u>NC</u>	1			
Signature: Printed Nam	kurt Ho	ekstra				Approved by	Environmental S	specialis	t: Ox	us/	he				
Title: EHS C	-	VILLE II				Approval Date: ///7//4/ Expiration Date:									
E-mail Addr		loekstra@xtoe				Conditions of	Attached								
		ets If Necess				HNUS	14321	49	377	_1	7				



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0466

Samples Received: 3/24/2014 3:45:00PM

Job Number: 98031-0528 Work Order: P403080

Project Name/Location: Bolack 4 #3

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

Date: 3/27/14

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.





382 CR 3100 Aztec NM, 87410 Project Name:

Bolack 4 #3

Project Number: Project Manager: 98031-0528 James McDaniel

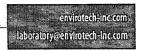
Reported:

27-Mar-14 10:55

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Cellar	P403080-01A	Soil	03/24/14	03/24/14	Glass Jar, 4 oz.

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382 CR 3100 Aztec NM, 87410 Project Name:

Bolack 4 #3

Project Number:

98031-0528

Project Manager: James McDaniel

Reported:

27-Mar-14 10:55

BGT Cellar P403080-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	ND	20.0	mg/kg	1	1413011	03/25/14	03/25/14	EPA 418.1	

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Page 3 of 6



Aztec NM, 87410

Project Name:

Bolack 4 #3

382 CR 3100

Project Number:

98031-0528

Project Manager:

James McDaniel

Reported:

27-Mar-14 10:55

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1413011 - 418 Freon Extraction			.							
Blank (1413011-BLK1)				Prepared &	Analyzed:	25-Mar-14				
Total Petroleum Hydrocarbons	ND	20.0	mg/kg							
Duplicate (1413011-DUP1)	Sour	ce: P403072-	01	Prepared &	Analyzed:	25-Mar-14				
Total Petroleum Hydrocarbons	23.9	20.0	mg/kg		32.0			28.7	30	
Matrix Spike (1413011-MS1)	Sour	ce: P403072-	01	Prepared &	Analyzed	25-Mar-14				
Total Petroleum Hydrocarbons	1810	20.0	mg/kg	2000	32.0	89.0	80-120			

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Aztec NM, 87410

Project Name:

Bolack 4 #3

382 CR 3100

Project Number: Project Manager: 98031-0528 James McDaniel

Reported:

27-Mar-14 10:55

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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		01	- Marian In an							Analy	etig .		
	1	Quot	e Number		 	Page of	_	-	- 1	<u> </u>	,,,, 		Lab Information
XTO			Contact		<u> </u>	TO Contact Phon	# 43						98031-0528
ENERGY		•		Email	Results t	0;			l		1 1		Office Abbreviations
ENERGY Western Division			7	7 AMES	KURT LOGAL								Farmington = FAR
BOLACY 4 3		30-045	Number		BG		RE						Durango = DUR Bakken = BAK
Collected By	1	enn,	A) N) ofer our res	-	X Sto	<u>Turnaround</u> andard	,	~			1 1) 1	Raton = RAT Piceance = PC
Company SXTD	Requeste	d	Ne	ext Day vo Day		418.					Roosevelt = RSV La Barge = LB		
Signature	_		V Verezessesses	THE PERSONS ASSESSED.		ree Day . 5 Bus. Days (by :	rontract)				1 1		Orangeville = OV
Ky LIM BITH		Gray Areas	for Lab Us	Only	Date Ne			ᄎ	- 1	1			
Sample ID		le Name	Media	Date	Time	Preservative	No. of Conts.	F					Sample Number
FARXH-032314-0230	BLIT	CELLAR	5_	3-74	2:30	ON ICE	1				\perp		12402080201
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Media: Filter = F Solla S Wastew	ater - ww	Grounawat	Date:	rinking v		Received By: (\$1		34 = 2M	All =	A DN			er • OI Hier sample Condition
Relinguished/By/(Signature)	4		3-24	-14-	3:45	veceloed DA: (312	inditure					Voic	
Rylinquished By: (Signature)	<u> </u>		Date:		Time:	Received By: (\$1	jnature)				Temp	erature	Otic Information
Relinquished By: (Signature)			Date:		Time:	Wall was	by (Ugno	ture)			Date	Tin Ny S	
Comments						(- O						,	

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

0466

Page 6 of 6



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

Tax I.D. 62-0814289

Est. 1970

Kurt Hoekstra XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

Report Summary

Friday March 28, 2014

Report Number: L690111 Samples Received: 03/26/14 Client Project:

Description: Bolack 4 # 3

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

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

Tax I.D. 62-0814289

Est. 1970

ESC Sample # : L690111-01

REPORT OF ANALYSIS

March 28,2014

Site ID :

Project # :

Kurt Hoekstra XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

Date Received : March 26, 2014 Description : Bolack 4 # 3

Sample ID

: FARKH-032414-1430

Collected By : Kurt Hoekstra Collection Date : 03/24/14 14:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	410	11.	mg/kg	9056	03/28/14	1
Total Solids	94.0		8	2540 G-2011	03/28/14	1
Benzene	BDL	0.0026	mg/kg	8021/8015	03/27/14	5
Toluene	\mathtt{BDL}	0.026	mg/kg	8021/8015	03/27/14	5
Ethylbenzene	BDL	0.0026	mg/kg	8021/8015	03/27/14	5
Total Xylene	BDL	0.0080	mq/kg	8021/8015	03/27/14	5
TPH (GC/FID) Low Fraction	\mathtt{BDL}	0.53	mg/kg	GRO	03/27/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8021/8015	03/27/14	5
a,a,a-Trifluorotoluene(PID)	98.0		% Rec.	8021/8015	03/27/14	5
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4.2	mg/kg	3546/DRO	03/27/14	1
o-Terphenyl	102.		% Rec.	3546/DRO	03/27/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Summary of Remarks For Samples Printed 03/28/14 at 14:52:20

TSR Signing Reports: 288 R5 - Desired TAT

Domestic Water Well Sampling-see L609759 Lobato for tests EDD's on ALL projects email James, Kurt and Logan all reports

Sample: L690111-01 Account: XTORNM Received: 03/26/14 09:30 Due Date: 04/02/14 00:00 RPT Date: 03/28/14 14:52



XTO Energy - San Juan Division Kurt Hoekstra 382 County Road 3100

Aztec, NM 87410

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

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L690111

March 28, 2014

### Sec Limit Batch Date Analyze #### Sec Date Date Date ### Sec Date Date Date ### Sec Date Date Date Date Date Date ### Sec Date Date Date Date Date Date Date ### Sec Date Date Date Date Date Date Date ### Sec Date Date Date Date Date Date Date Date ### Sec Date			Laboratory	Blank			
Ethylbensee	Analyte	Result			Limit	Batch	Date Analyzed
TOURDED COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUN	Benzene	.					
TRH [GG/FID] Low Praction S.	Ethylbenzene						
Total Xylene							
### Rec. 98.20 54.144 MG713013 03/27/14 13. TPH (GC/FID) High Fraction	Total Xylene	< .0015		0.00	50.100		
Carphenyl Carp	a,a,a-Trifluorotoluene(PID)			A CARLO CARLO DE LA CARGO DE LA CARLO CARLO COMPARA DE			
Chloride Coloride	TPH (GC/FID) High Fraction	< 4					
### Chloride Call	o-rerphenyr		mana kec	***************************************	THE SUPPLY OF	**************************************	PER many Turbust's 17 th artic 2006.
Caloride	Total Solids	< .1				WG712988	03/28/14 10:47
Name	Chloride	< 10	mg/kg		***************************************	WG713124	03/27/14 21:10
Solids	analura	To it a			Timit	Pof Cam	n Batab
Chloride mg/kg 58.0 53.0 9.01 20 L689601-07 WG7131 Chloride mg/kg 30.0 31.0 3.28 20 t L690190-04 WG7131 Analyte Units Known Val Result * Rec Limit Batch Benzene mg/kg .05 0.0473 94.6 70-130 WG7130 WG7130 Totlene mg/kg .05 0.0488 97.5 70-130 WG7130 WG7130 Totlene mg/kg .05 0.0488 97.5 70-130 WG7130 WG71	Analyte					Rei Sam	
Chloride	Total Solids	3 8	2.9. 83.	4 0.572		£690139	-01 WG712988
Analyte Units Known Val Result % Rec Limit Batch Benzene mg/kg .05 0.0473 94.6 70-130 WG7130 Ethylbenzene mg/kg .05 0.0488 97.5 70-130 WG7130 Toluene mg/kg .05 0.0488 97.5 70-130 WG7130 Total Xylene mg/kg .05 0.0461 92.2 70-130 WG7130 Total Xylene mg/kg .15 0.142 94.8 70.130 WG7130 Total Xylene mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) Low Praction mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) Low Praction mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) High Fraction mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) High Fraction mg/kg .55 9.3 98.9 50-150 WG7130 TOTAL Solids % 50 50.0 100. 85-115 WG7130 Contoride mg/kg .50 50.0 100. 85-115 WG7130 Contoride mg/kg .50 50.0 100. 85-115 WG7131 Total Solids % 50 50.0 100. 85-115 WG7131 Contoride mg/kg .0.0464 0.0478 93.0 70-130 2.04 WG7131 Elaboratory Control Sample Duplicate Mg/kg 0.0474 0.0488 95.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0464 0.0478 93.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7131 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.66 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130	Chloride Chloride Chloride						
Analyte Units Known Val Result % Rec Limit Batch Benzene mg/kg .05 0.0473 94.6 70-130 WG7130 Ethylbenzene mg/kg .05 0.0488 97.5 70-130 WG7130 Toluene mg/kg .05 0.0488 97.5 70-130 WG7130 Total Xylene mg/kg .05 0.0461 92.2 70-130 WG7130 Total Xylene mg/kg .15 0.142 94.8 70.130 WG7130 Total Xylene mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) Low Praction mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) Low Praction mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) High Fraction mg/kg .55 4.96 90.1 63.5.137 WG7130 TPH (GC/FID) High Fraction mg/kg .55 9.3 98.9 50-150 WG7130 TOTAL Solids % 50 50.0 100. 85-115 WG7130 Contoride mg/kg .50 50.0 100. 85-115 WG7130 Contoride mg/kg .50 50.0 100. 85-115 WG7131 Total Solids % 50 50.0 100. 85-115 WG7131 Contoride mg/kg .0.0464 0.0478 93.0 70-130 2.04 WG7131 Elaboratory Control Sample Duplicate Mg/kg 0.0474 0.0488 95.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0464 0.0478 93.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7131 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.66 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.75 20 WG7130			·Iaboratory Con	trol Samole			
Ethylbenzene	Analyte				% Rec	Limit	Batch
Toluene mg/kg .05 0.0461 92.2 70-130 MG7130 TOLA Xylene mg/kg .15 0.142 94.8 70.130 MG7130 MG7130 A, a, a-Trifluorotoluene(FID) 97.80 59-128 MG7130 a, a, a-Trifluorotoluene(PID) 101.0 54-144 MG7130 MG7130 A, a, a-Trifluorotoluene(PID) 101.0 54-144 MG7130 MG7130 A, a, a, a-Trifluorotoluene(PID) 98.40 59-128 MG7130 A, a, a, a-Trifluorotoluene(PID) 100.0 54-144 MG7130 MG713	Benzene	mg/kg			94.6	"Infile, H. A. LALLA L.	WG71301:
Total Xylene a, a, a - Trifluorotoluene (FID) a, a, a - Trifluorotoluene (FID) b, a, a, a - Trifluorotoluene (FID) c, a,							WG713011
101.0 54-144 WG7130 TPH (GC/FID) Low Fraction mg/kg 57.5 4.96 90 63.5-137 WG7130 3.4.3-Trifluorotoluene (FID) 98.40 59-128 WG7130 3.4.3-Trifluorotoluene (FID) 100.0 54-144 WG7130 3.4.3-Trifluorotoluene (FID) 100.0 54-144 WG7130 3.4.3-Trifluorotoluene (FID) 100.0 54-144 WG7130 3.4.3-Trifluorotoluene (FID) 103.0 50-150 WG7130 3.4.3-Trifluorotoluene MG7130	Total Xylene			and a second control of the control			WG71301
TPH (GC/FID) Low Fraction mg/kg 5.55	a,a,a-Trifluorotoluene(FID)		•				WG71301:
a, a, a-Trifluorotoluene (PID) 100.0 54-144 WG7130 TPH (GC/FID) High Fraction mg/kg 60 59.3 98.9 50-150 WG7130 o-Terphenyl 103.0 50-150 WG7130 Total Solids \$ 50 50.0 100. 85-115 WG7129 Chloride mg/kg 200 205. 103. 80-120 WG7131 Laboratory Control Sample Duplicate Units Result Ref *Rec Limit RPD Limit Batch Benzene mg/kg 0.0464 0.0473 93.0 70-130 2.04 20 WG7130 Ethylbenzene mg/kg 0.0474 0.0488 95.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.60 20 WG7130 Total Xylene mg/kg 0.138. 0.142 92.0 70-130 2.60 20 WG7130 a, a, a-Trifluorotoluene (FID) 98.00 59-128 WG7131	TPH (GC/FID) Low Fraction	mg/kg	5.5	4.96			A CONTRACTOR OF A PROPERTY OF SAME
TPH (GC/FID) High Fraction mg/kg 60 59.3 98.9 50-150 WG7130 o-Terphenyl 103.0 50-150 WG7130 mg/kg 50 50.0 100. 85-115 WG7129 mg/kg 200 205. 103. 80-120 WG7131 MG7131 Laboratory: Control: Sample Duplicate Units Result Ref *Rec Limit RPD Limit Batch MG7131	a,a,a-Trifluorotoluene(FID)						WG713013
0-Terphenyl 103.0 50-150 WG7130 Total Solids % 50 50.0 100. 85-115 WG7129 Chloride mg/kg 200 205. 103. 80-120 WG7131 Laboratory Control Sample Duplicate Units Result Ref %Rec Limit RPD Limit Batch Benzene mg/kg 0.0464 0.0473 93.0 70-130 2.04 20 WG7130 Ethylbenzene mg/kg 0.0474 0.0488 95.0 70-130 2.75 20 WG7130 Total Xylene mg/kg 0.0449 0.0461 90.0 70-130 2.60 20 WG7130 Total Xylene mg/kg 0.138 0.142 92.0 70-130 2.71 20 WG7130 a,a,a-Trifluorotoluene(FID) 98.00 59-128 WG7130	a, a, a-Trilluorotoluene (PID)				100.0	54-144	WG/1301.
Total Solids \$ 50 50.0 100. 85-115 WG7129 Chloride	TPH (GC/FID) High Fraction	mg/kg	60	59.3			WG71305
Chloride	o-Terphenyl				103.0	50-150	WG71305
Laboratory Control Sample Duplicate Units Result Ref %Rec Limit RPD Limit Batch Benzene	Total Solids	**************************************	50	50.0	100.	85-115	WG71298
Analyte Units Result Ref %Rec Limit RPD Limit Batch Benzene	<u>Chloride</u>	mg/kg	200	205.	103.	80-120	WG71312
Benzene mg/kg 0.0464 0.0473 93.0 70-130 2.04 20	non loba					ppn r	mit Batab
Ethylbenzene mg/kg 0.0474 0.0488 95.0 70-130 2.75 20 WG7130 Toluene mg/kg 0.0449 0.0461 90.0 70-130 2.60 20 WG7130 Total Xylene mg/kg 0.138 0.142 92.0 70-130 2.71 20 WG7130 a,a,a-Trifluorotoluene (FID) 98.00 59-128 WG7130	Analyte	Units Res	uir kei	*Kec	TIMIC		
Toluene mg/kg 0.0449 0.0461 90.0 70-130 2.60 20 WG7130 Total Xylene mg/kg 0.138 0.142 92.0 70-130 2.71 20 WG7130 a,a,a-Trifluorotoluene(FID) 98.00 59-128 WG7130	Benzene		Con to a secretar nation of a second section of the section of	Christian address and the darks and a market day of a his	and the first and the second of the second o		
Total Xylene	Ethylbenzene Toluene					2.60 20	WG71301
w/-/	Total Xylene			92.0	70-130	2.71	
	a,a,a-Trifluorotoluene(FID) a,a,a-Trifluorotoluene(PID)			98.00 101.0	59-128 54-144		WG71301 WG71301

a,a,a-Trifluorotoluene(PID)
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



XTO Energy - San Juan Division Kurt Hoekstra 382 County Road 3100

Aztec, NM 87410

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L690111

March 28, 2014

		Laborato	v Control	Sample Dur	licate				
Analyte		Result	Ref	%Rec_		lmit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction	ma/ka	4.66	4.96	85.0	##.W##################################	3.5-13 7	6.29	20 5	WG71301
a,a,a-Trifluorotoluene (FID)	414234 •	Marie Control Control of the second	A Completence of the Tables	98.90	Manhadaran and a transfer	9-128	LUI M. TARACOT WILLE II	STATE OF THE PARTY	WG71301
a,a,a-Trifluorotoluene(PID)		ererataldin ires . i	er un et aut dutte kannel aut baken et in e	99.70	54	1-144	a 1.1 a 10.3 20.3 20.3 20.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4114.4.4.4.413.54.1111.4. 8 0.1.5.2121.4.1.6.80	WG71301
	manya								
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	61.6	59.3	103. 104.0)-150)-150	3.76	20	WG71305
Chloride	mg/kg	204.	205.	102.	8(0-120	0.489	20	WG71312
			Matrix	Spike					
Analyte	Units	MS Res	s Ref F	Res TV	% Rec	Limit	. R	Ref_Samp	Batch
Benzene	mg/kg	0.233	0.000	183447054	₩₩ 93 . O ₩₩₩	49.7	127 JULI	690257-01	WG71301
Ethylbenzene	mg/kg	0.233	0.000	CONTRACTOR OF CONTRACTOR	93.0	40.8-		∟690257-01	WG71301
Toluene	mg/kg	0.228	0.000	CONTRACTOR OF PROPERTY AND ADDRESS OF THE PARTY OF THE PA	91.0	49.8-		690257-01	WG71301
Total Xylene	mg/kg	0.681	10.001	19 .15	91.0	## 37 x 3 x 3 x 3 x 1 x 4 x 4 x 4 x 4 x 4 x 4 x 4 x 4 x 4	4.550.000.00000000000000000000000000000	690257-01	WG71301
a,a,a-Trifluorotoluene(FID) a,a,a-Trifluorotoluene(PID)					97.30 99.40	59-12 54-14	-		WG71301 WG71301
TPH (GC/FID) Low Fraction	ma/ka	21:5	0.0		78.0	28.5		4690257-01	WG71301
a,a,a-Trifluorotoluene(FID)	is assista	and a second second	in to follow in the second and or	ansanahahamis 12 1271 mas	97.30	59-12	· · · · · · · · · · · · · · · · · · ·	**************************************	WG71301
a,a,a-Trifluorotoluene(PID)	manage of the second second				98.80	54-14	14		WG71301
Chloride	mg/kg	1830	1200	500	130.*	80-12	20 I	L690190-03	WG71312
		Ma	rix Spike	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit R	Ref Samp	Batch
Benzene	mg/kg	0.229	0.233	91.5	49.7-127	1:80		690257-01	WG71301
Ethylbenzene	mg/kg	0.218	0.233	87.3	40.8-141	6.49	distribution in the Personal Contraction in	690257-01	WG71301
Toluene	mg/kg	0.218	0.228	86.7	49.8-132	4.76		690257-01	WG71301
Total Xylene	mg/kg	0.635	0.681	84.5	41.2-140	6.93	23,.7 L	690257-01	WG71301
a,a,a-Trifluorotoluene(FID) a,a,a-Trifluorotoluene(PID)				96.70 99.80	59-128 54-144				WG71301 WG71301
TPH (GC/FID) Low Fraction	ma/ka	19.6	21.5	71.4	28.5-138	9:05	23.6 L	690257-01	WG71301
a,a,a-Trifluorotoluene(FID)	idalian etti iliada	ametroje adiibili	auguster automicistic	97.10	59-128	waxaanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa			WG71301
a,a,a-Trifluorotoluene(PID)			A 1 4 1 1 1 1 1 2 A 3 5 5 1 1 1 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	98.10	54-144				WG71301
Chloride	mg/kg	1770	1830	114.	80-120	3.33	20 I	L690190-03	WG71312

Batch number /Run number / Sample number cross reference

WG713013: R2898308: L690111-WG713056: R2898534: L690111-WG712988: R2898562: L690111-WG713124: R2898647: L690111-

^{*} Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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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.

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