District I 1625-N. French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, 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

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Form C-141 Revised October 10, 2003

		_	Rele	ease Notific	eation	and Co	rrective A	ction	1					
SO-	045-	-2300	(C)			OPERA T	ГOR		☐ Initia	al Report 🛛 Fina	l Report			
Name of Co	mpany: X'	TO Energy,	Inc.				nes McDaniel							
		00, Aztec, N					No.: (505) 333-3		1.					
Facility Nai	ne: Onio F	Govt #1A (30-045-2	(3000)	1	Facility Type: Gas Well (Mesaverde)								
Surface Ow	ner: Federa	al		Mineral C)wner:				Lease N	lo.: NMNM-021126				
				LOCA	ATION	OF REI	LEASE							
Unit Letter C	Section 20	Township 31N	Range 12W	Feet from the 990	J.	South Line FNL	Feet from the 1800	1	Vest Line WL	County San Juan				
				Latitude:	36.8895	Longitud	e: -108.1226	•						
				NAT	URE	OF RELI	·							
Type of Rele		nsate d open ended	nine				Release: Unknov			Recovered: None Hour of Discovery:				
		•	pipe			Unknown	ioui oi occurrent		October 1					
Was Immedi	ate Notice C		Yes [No Not R	equired	If YES, To	Whom?							
By Whom?						Date and I-								
Was a Watercourse Reached? ☐ Yes ☒ No ☐ If YES, Volume Impacting the Watercourse.														
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	*		<u> </u>								
A stain was r 2011, and for the surface, f BTEX via U Guidelines for estimated de	eported nea and an area from 1.5' BC SEPA Methor the Reme oth to groun	approximatel GS and from 4 od 8021. All diation of Lea dwater of less	the Ohio F y 12' in di ' BGS. A three (3): ks, Spills than 100	Govt #1A on the ameter. A single all three (3) sample samples returned and Releases. The feet. This set the	boring was boring was were a constant to be the boring was been boring was boring was been boring was boring w	vas conducted analyzed in to bove 5,000 pp as ranked a 30	d in the center of he laboratory for om TPH. The site 0 due to a wash a	the stain DRO/GI e was the tless that	ned area, an RO via US en ranked a nn 200 feet	e stained area on October d samples were collected EPA Method 8015, and f according to the NMOCD from the location, and an 50 ppm total BTEX.	from or			
		and Cleanup A report for re												
I hereby cert regulations a public health should their or the enviro	ify that the i ll operators or the envir operations h nment. In a	information gi are required to ronment. The lave failed to	ven above o report an acceptand adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 report investigate and r	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final Roon that pose a thing the operator of	ctive act Report" d reat to gi respons	ions for rel loes not rel round wate ibility for c	suant to NMOCD rules are eases which may endang ieve the operator of habitr, surface water, human hompliance with any othe	er ity iealth			
Signature:	///		·/				OIL CON	SERV	ATION	DIVISION				
	e: James Mo	Daniel, CHM	IM #1567	6		Approved by	District Supervis	sor. O	Mari) felly				
Title: EH&S	Supervisor	 				Approval Da	te: 1/12/2	0124	Expiration	Date:				
E-mail Addr	ess: James_	McDaniel@x	oenergy o	om		Conditions of	f Approval:			Attached				
Date: 11/10	0/2011	HALARDOU	PI	none: 505-333-37	01		20/100	12.3	235C	1 16				
		ESP. M.				n JK 12012			RCVD NOV 14'11					
		1.00%	N.S.			A.			0	OIL CONS. DIV.				

Ohio F Govt #1A Remediation Report

On October 20, 2011, excavation activities began in the stained area. During excavation, an open ended, 2", steel pipe was discovered wrapped in pipe tape. The pipe was leaking a small amount of liquid after being unearthed. The pipe was traced back to the separator, and was coming off of the dump line to the on-site oil tank. This un-used and abandoned line had a check valve to prevent oil from entering the pipe, but the check valve must not have been working 100%. The pipe was removed, and excavation activities continued. Excavation stopped at 20' x 20' x 20' deep due to OSHA regulations on excavations over 20'. Samples were collected from the bottom of the excavation, and one (1) sample was collected from each of the four (4) walls. All five (5) samples were analyzed for DRP/GRO via USEPA Method 8015, and for BTEX via USEPA Method 8021. All four (4) wall samples returned results below the regulatory standards determined for this site. The floor returned results of 151 ppm TPH, above the 100 ppm TPH standard determined for this site. At this time, Brandon Powell, NMOCD Aztec Division, was contacted regarding the . sample results. Brandon requested an additional assessment be performed to determine the extent of impacts below the 20'. Additional assessment activities were performed on October 28, 2011. Using a hand auger, an additional sample was collected from the floor of the excavation at 20' deep, and a sample was collected from sandstone at approximately 26' deep. Both samples were analyzed for DRO/GRO via USEPA Method 8015, and for BTEX via USEPA Method 8021. The sample collected at 20' returned results below the regulatory standard for all constituents analyzed. The sample collected from sandstone at approximately 26' returned results of 3,100 ppm TPH and 136.39 ppm total BTEX. These levels are above the NMOCD standards determined for this site. Based on these results, Brandon Powell requested that additional excavation be performed to remove impacted soils down to the sandstone at approximately 26' deep. Due to the excavation being deeper than 20', OSHA regulations require a PE certified excavation plan. A PE certified excavation plan was written, and excavation activities continued on November 4, 2011 The excavation was extended to approximately 30' x 30' x 26' deep, where sandstone was encountered. A sample was collected of the sandstone floor at 26' and analyzed for DRO/GRO via USEPA Method 8015, and for BTEX via USEPA Method 8021. The sample returned results below the benzene and BTEX standards determined for this site, but above the 100 ppm TPH standard at 440 ppm Due to the dense sandstone encountered at 26', the lack of benzene in the sample results, and an estimated depth to groundwater of 80-90' deep, Brandon Powell approved the excavation to be closed at its current extents. Approximately 488 cubic yards of impacted soil was disposed of at IEI, and the excavation was backfilled using soil from Four Corners Material to match the natural soil at this location. All applicable analytical results and Bills of Lading are attached for your reference.



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

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

Report Summary

Monday October 17, 2011

Report Number: L541457 Samples Received: 10/14/11 Client Project:

Description: Ohio F Govt 1A

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:

Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences
Note. The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP

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REPORT OF ANALYSIS

October 17,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L541457-01

Date Received : October 14, 2011 Description : Ohio F Govt 1A

Site ID : OHIO F GOVT 1A

Sample ID : SPILL COMPOSITE

Project # :

Collected By : James McDaniel Collection Date : 10/12/11 11:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.		ક	2540G	10/17/11	1
Benzene	5.2	1.1	mg/kg	8021/8015	10/14/11	2000
Toluene	81.	11.	mg/kg	8021/8015	10/14/11	2000
Ethylbenzene	25.	1.1	mq/kg	8021/8015	10/14/11	2000
Total Xylene	290	3.2	mq/kq	8021/8015	10/14/11	2000
TPH (GC/FID) Low Fraction	5800	220	mg/kg	GRO	10/14/11	2000
Surrogate Recovery-%			3. 3			
a,a,a-Trifluorotoluene(FID)	92.5		% Rec.	8021/8015	10/14/11	2000
a,a,a-Trifluorotoluene(PID)	97.5		% Rec.	8021/8015	10/14/11	2000
TPH (GC/FID) High Fraction Surrogate recovery(%)	6600	86.	mg/kg	3546/DRO	10/17/11	20
o-Terphenyl	0.00		% Rec	3546/DRO	10/17/11	20

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

Note.

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REPORT OF ANALYSIS

October 17,2011

Project :

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

Date Received : October 14, 2011 Description : Ohio F Govt 1A Description

Sample ID SPILL COMPOSITE

Collected By : James McDaniel Collection Date : 10/12/11 11:00

ESC Sample # : L541457-02

Site ID : OHIO F GOVT 1A

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	Ву	Dil
TCLP Extraction	-				1311	10/15/11 0700	MVE	1
Mercury	BDL	0.0010	mg/l	0.20	7470A	10/16/11 1108	JEC	1
Arsenic Barium Cadmium Chromium Lead Selenium Silver	BDL 0.24 BDL BDL 0.077 BDL	0.050 0.15 0.050 0.050 0.050 0.050	mg/l mg/l mg/l mg/l mg/l mg/l	5.0 100 1.0 5.0 5.0 1.0	6010B 6010B 6010B 6010B 6010B 6010B	10/16/11 1601 10/16/11 1601 10/16/11 1601 10/16/11 1601 10/16/11 1601 10/16/11 1601	ST ST ST ST ST	1 1 1 1 1 1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)
Limit - Maximum Contaminant Level as established by the US EPA

Note:

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Reported: 10/17/11 16:21 Printed: 10/17/11 16:22



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REPORT OF ANALYSIS

October 17,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L541457-03

Date Received : October 14, 2011 Description : Ohio F Govt 1A Description

Site ID : OHIO F GOVT 1A

Sample ID : SPILL COMPOSITE 1.5 FT

Project # :

Collected By : James McDaniel Collection Date : 10/12/11 11:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.		ક	2540G	10/17/11	1
Benzene	4.1	1.4	mg/kg	8021/8015	10/14/11	2500
Toluene	120	14.	mg/kg	8021/8015	10/14/11	2500
Ethylbenzene	49.	1.4	mg/kg	8021/8015	10/14/11	2500
Total Xylene	440	4.2	mg/kg	8021/8015	10/14/11	2500
TPH (GC/FID) Low Fraction	9100	280	mg/kg	GRO	10/14/11	2500
Surrogate Recovery-%			3, 3			
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	10/14/11	2500
a,a,a-Trifluorotoluene(PID)	99.5		% Rec.	8021/8015	10/14/11	2500
TPH (GC/FID) High Fraction Surrogate recovery(%)	6200	220	mg/kg	3546/DRO	10/17/11	50
o-Terphenyl	0.00		% Rec.	3546/DRO	10/17/11	50

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

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Reported 10/17/11 16:21 Printed 10/17/11 16:22



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REPORT OF ANALYSIS

October 17,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # : L541457-04

Project # :

Date Received : October 14, 2011 Description : Ohio F Govt 1A Description

Sample ID : SPILL COMPOSITE 4 FT Site ID : OHIO F GOVT 1A

Collected By : James McDaniel Collection Date : 10/12/11 11 10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.		8	2540G	10/17/11	1
Benzene	BDL	2.6	mg/kg	8021/8015	10/14/11	5000
Toluene	BDL	26.	mq/kq	8021/8015	10/14/11	5000
Ethylbenzene	BDL	2.6	mg/kg	8021/8015	10/14/11	5000
Total Xylene	170	7.8	mg/kg	8021/8015	10/14/11	5000
TPH (GC/FID) Low Fraction	7400	520	mg/kg	GRO	10/14/11	5000
Surrogate Recovery-%			3, 3			
a,a,a-Trifluorotoluene(FID)	92.1		% Rec.	8021/8015	10/14/11	5000
a,a,a-Trifluorotoluene(PID)	91.5		% Rec.	8021/8015	10/14/11	5000
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4.2	mg/kg	3546/DRO	10/17/11	1
o-Terphenyl	53.7		% Rec.	3546/DRO	10/17/11	1

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

Note:
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Reported: 10/17/11 16:21 Printed: 10/17/11 16:22

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L541457-01 L541457-03	WG560533 WG560533	SAMP SAMP	o-Terphenyl o-Terphenyl	R1898952 R1898952	J7 J7

Attachment B Explanation of QC Qualifier Codes

Qualifier

Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Meaning

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by
 Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Page 7 of 11

Summary of Remarks For Samples Printed 10/17/11 at 16:22:01

TSR Signing Reports: 288 R2 - Rush: Next Day

drywt

Sample: L541457-01 Account: XTORNM Received: 10/14/11 09:00 Due Date: 10/17/11 00:00 RPT Date: 10/17/11 16:21

Sample: L541457-02 Account: XTORNM Received: 10/14/11 09:00 Due Date: 10/19/11 00:00 RPT Date: 10/17/11 16:21

Sample: L541457-03 Account: XTORNM Received: 10/14/11 09:00 Due Date: 10/17/11 00:00 RPT Date: 10/17/11 16:21

Sample: L541457-04 Account: XTORNM Received: 10/14/11 09:00 Due Date: 10/17/11 00:00 RPT Date: 10/17/11 16:21



XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

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Quality Assurance Report Level II

L541457

October 17, 2011

non luka	B		ratory Bla		* *	n	
Analyte	Result	Uni	28	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	. mg/1	ca			WG560542	10/14/11 15 2
Ethylbenzene	< .0005	mg/)					10/14/11 15:2
Toluene	< .005	mg/1					10/14/11 15:2
TPH (GC/FID) Low Fraction	< 1	mg/1		***			10/14/11 15:2
Total Xylene	< .0015	mg/)			t is the		10/14/11 15:2
a,a,a-Trifluorotoluene(FID)		% Re		93 93	59-128		10/14/11 15:2
a,a,a-Trifluorotoluene(PID)	-	* Re		97.19	54-144		10/14/11 15:2
a, a, a-11111dolocoldene(Fib)	•	. 8 1/6		37.13	pa. riad	WG360342	10/14/11 13 2
Mercury	< 0002	mg/	l.	· ,· .		WG560680	10/16/11 10 2
Arsenic	< 05	mg/	1	•	•	WG560761	10/16/11 12 2
Barium	< 15	mg/:					10/16/11 12
Cadmium	< .05	mg/					10/16/11 12 2
Chromium	< .05	mg/:					10/16/11 12.2
Lead		mg/					10/16/11 12.2
Selenium					-		10/16/11 12:2
Silver		mg/					10/16/11 12:2
Sliver	< 05	mg/	L			WG560761	10/16/11 12:2
Total Solids	< 1	*		· · ·		% WG560568	10/17/11 09·4
TPH (GC/FID) High Fraction	< 4	ppm				WG560533	10/17/11 09:0
o-Terphenyl		% Re	ec .	63.64	50-150	WG560533	10/17/11 09:0
			- 21				
Analyte	Units	Result	Duplicate Duplica	ite RPD	Limit	Ref Sam	p Batch
Mercury	mg/l	0	0	. 0	20 _	L541422	- 01 WG56068
Arsenic	mg/l	0	0	0	20	L541528	-01 WG56076
Barium	mg/l	o ,	, o .,	.0	20 , 1	L541528	
Cadmium	mg/l	0	0	0	20	L541528	
Chromium	mg/l	0	0	ŏ	20	L541528	
Lead	mg/l	0	0	0 -	20	L541528	
Selenium			0.0580	15 7			
	mg/l	0.0680		0	20 20	L541528	
Silver	mg/l	0.	0	٠.	. 20	L541528	-01 WG56076
Total Solids	*	81.0	81 2	0.0375	5	L541495	-01 WG56056
			ry Control				
Analyte	Units	Known Va	al	Result	% Rec	Limit	Batch
Benzene	mg/kg	. 05		0.0393	78 6	76-113	WG56054
Ethylbenzene	mg/kg	05		0 0440	88 0	78-115	WG56054
Toluene	mg/kg	05		0 0457	91 3	76-114	WG56054
Total Xylene	mg/kg	.15		0 129	85 9	81-118	WG56054
a,a,a-Trifluorotoluene (FID)	a, ,a		-		93.03	59-128	WG56054
a,a,a-Trifluorotoluene(PID)					96.88	54-144	WG56054
TPH (GC/FID) Low Fraction	mg/kg	5.5	*	6 59	120.	67-135	WG56054
a,a,a-Trifluorotoluene(FID)	mg/kg_	٥.٥		4 33	98 74	59-128	WG56054
a, a, a- ++ retrococornene (trp)					108 1	54-144	WG56054
a,a,a-Trifluorotoluene(PID)							

Mercury mg/l 003 0.00298 99.3

* 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 James McDaniel

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Quality Assurance Report Level II

L541457

October 17, 2011

Analyte	Units	Labora Knowr	atory Contr 1 Val	oı Sampie Resul		% Rec		Limit	Batch
Arsenic	mg/l	1.13		1 18		104		85-115	WG56076
Barium	mg/l	1.13	_	1 15		102		85-115	WG56076
Cadmium	mg/l	1.13		1.16		103.		85-115	WG56076
Chromium	mg/l	1.13		1 22		108.		85-115	WG56076
Lead	mg/l	1.13		1.07		94.7		85-115	WG56076
Selenium	mg/l	1.13		1 25		111.		85-115	WG56076
Silver	mg/l	1.13		1 20	w# 	106.	_	85-115	WG56076
Total Solids	ક	50		50 0		100		85-155	WG56056
A second of the second of the second	- ,	. n. 1 th	21	2,1	5 7 1 %	4		, ,	1
TPH (GC/FID) High Fraction	ppm	60		45 1		75.2		50-150	WG56053
o-Terphenyl						69 88		50-150	WG56053
		Laboratory	Control Sa	mnle Dunl	icate				
Analyte	Units	Result	Ref	*Rec		Limit	RPD	Limit	Batch
				26.0		20.112		20	Marcar
Benzene	mg/kg	0 0430	0.0393	86.0		76-113	8.98	20	WG56054
Ethylbenzene	mg/kg	0 0483	0.0440	96.0		78-115	9 24	20	WG56054
Toluene	mg/kg	0.0503	0 0457	101		76-114	9.77	20	WG56054
Total Xylene	mg/kg	0.139	0 129	93.0		81-118	7.72	20	WG56054
a,a,a-Trifluorotoluene(FID)				93.68		59-128			WG56054
a,a,a-Trifluorotoluene(PID)				96 67		54-144			WG56054
TPH (GC/FID) Low Fraction	mg/kg	6.75	6 59 ,	123.	1	67-135	2.37	20	WG56054
a,a,a-Trifluorotoluene(FID)	5. 5			98 94		59-128			WG56054
a,a,a-Trifluorotoluene(PID)				108 4		54-144			WG56054
TPH (GC/FID) High Fraction		45 2	45 1	75 0		50-150	0 0854	25	WG56053
o-Terphenyl	ppm	45 2	45 1	69.27		50-150	0 0034	23	WG56053
0-1erbuerd				03.21		30-130			
			Matrix Şpi					D-6 G	D
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit		Ref Samp	Batch
Benzene "	mg/kg	0.213	0	. 05	85.2	32-137		L541314-08	WG56054
Ethylbenzene	mg/kg	0.238	0	. 05	95.3	10-150		L541314-08	WG56054
Toluene	mg/kg	0.250	0	05	99.9	20-142		L541314-08	WG56054
Total Xylene	mg/kg	0.691	0	.15 .	92 1	16-141		L541314-08',	WG56054
a, a, a-Trifluorotoluene (FID)		K 1471	~ · `	_	93.29	59-128			WG56054
a,a,a-Trifluorotoluene (PID)					95.95				WG56054
TPH (GC/FID) Low Fraction	. mg/kg	30.4	0	5.5 ·	111.*	55-109		L541314-08	WG56054
a,a,a-Trifluorotoluene(FID)	. mg/kg	30.4	v	3.3	98 03			D341314.00	WG56051
a,a,a-Trifluorotoluene(PID)					103 8	54-144			WG56054
diala infinoiocongue final				٠		,			
Mercury	mg/l	0 00322	0	.003	107	70-130		L540814-02	WG56068
Mercury	mg/l	0.00307	0	.003	102.	70-130		L541422-01	WG56068
Arsenic	mg/1	1.08	´•	1 13	95.6	75-125		L541528-01	WG56076
Barium	mg/1	1 24	ō	1 13	110.	75-125		L541528-01	WG56076
Cadmium	mg/l	1 13	ŏ .	1.13	100.	75-125		L541528-01	WG56076
Chromium	- mg/l	1.22	0	1 13	108.	75-125		L541528-01	WG56076
Lead		1.05	0	1.13	92 9	75-125		L541528-01	WG56076
	mg/l			1.13	104.	75-125		L541528-01	WG56076
Selenium	mg/l	1.23						L541528-01	WG56076
Silver	mg/l	0.910	0	1.13	80 5	75-125			
Arsenic	mg/l	1.06	0	1 13	93.8	75-125		L540814-01	WG56076
Barium	mg/l	1 '15	. 0.	1 13	102	75-125		L540814-01	WG56076

Barium mg/l l'15 0 1 13 102 75-125 L540814-01

* Performance of this Analyte is outside of established criteria.

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



Aztec, NM 87410

XTO Energy - San Juan Division James McDaniel 382 Road 3100

Quality Assurance Report Level II

L541457

October 17, 2011

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

			Matrix Sp.	ike .					
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit		Ref Samp	Batch
Cadmium	mg/l	1 12	0	1.13	99.1	75-125		L540814-01	WG56076
Chromium	mg/l	1.66	0.430	1 13	109.	75-125	•	L540814-01	WG560763
Lead	mg/l	1 03	0	1 13	91 2	75-125		L540814-01	WG560761
Selenium -	mg/l	1.13	0	1 13	100.	75-125	•	L540814-01	WG560761
Silver	mg/l	1.17	0	1 13	104	75-125		L540814-01	WG560761
TPH (GC/FID) High Fraction o-Terphenyl	ppm	45.9	0	60	76.5 [%] ^{72.7} 69.30	50-150 50-150		L541421-01	WG560533 WG560533
		Mat	rix Spike D	uplicate					
Analyte	Units	MSD		Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.213	0 213 8	5 4	32-137	0.240	39	L541314-08	WG560542
Ethylbenzene	mg/kg	0 237		4 9	10-150	0 370	44	L541314-08	WG560542

Analyte	Units	MSD	Ref	*Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.213	0 213	85 4	32-137	0.240	39	L541314-08	WG560542
Ethylbenzene	mg/kg	0 237	0 238	94 9	10-150	0 370	44	L541314-08	WG560542
Toluene	mg/kg	0 246	0 250	98 2	20-142	1.68	42	L541314-08	WG560542
Total Xylene	mg/kg	0 684	0 691	91.2	16-141	1.01	46	L541314-08	WG560542
a,a,a-Trifluorotoluene(FID)	-			93 12	59-128				WG560542
a,a,a-Trifluorotoluene(PID)				96 17	54-144				WG560542
TPH (GC/FID) Low Fraction	mg/kg	. 29,6	30 4	107.	55-109	2.90	20	L541314-08	WG560542
a,a,a-Trifluorotoluene(FID)		., .		97 79 [°]	59-128				WG560542
a,a,a-Trifluorotoluene(PID)				106 5	54-144			-	WG560542
Mercury	mg/l	0 00318	0.00322	106.	70-130	1 25	20	L540814-02	WG560680
Mercury	mg/l	0 00328	0 00307	109.	70-130	6 61	20	L541422-01	WG560680
** * ,			•	٠.			`		1.1
Arsenic	mg/l	1 09	1 06	96.5	75-125	2.79	20	L540814-01	WG560761
Barium	mg/l	1.23	1.15	109	75-125	6.72	20	L540814-01	WG560761
Cadmium'	mg/l	1 11	1.12	98.2	75-125	0 897	20	L540814-01	WG560761
Chromium	mg/1	1 24	1 66	71.7*	75-125	29 0*	20	L540814-01	WG560761
Lead	mg/1	1.07	1 03	94.7	75-125	3.81	20	L540814-01	WG560761
Selenium	mg/1	1 24	1 13	110.	75-125	9 28	20	L540814-01	WG560761
Silver	mg/l	0 867	1 17	76.7	75-125	29.7*	20	L540814-01	WG560761
Arsenic	mg/l	1.13	1 06	100	75-125	6 39	20	L540814-01	WG560761
Barium	mg/l	1 21	1 15	107.	75-125	5.08	20	L540814-01	WG560761
Cadmium	mg/l	1 17	1 12	104	75-125	4.37	20	L540814-01	WG560761
Chromium	mg/l	1.65	1.66	108	75-125	0 604	20	L540814-01	WG560761
Lead	mg/l	1 08	1.03	95.6	75-125	4.74	20	L540814-01	WG560761
Selenium	mg/l	1.20	1 13	106	75-125	6.01	20	L540814-01	WG560761
Silver	mg/l	1.24	1 17	110	75-125	. 5 81	20	L540814-01	WG560761
TPH (GC/FID) High Fraction	ppm	47 3	45 9	78.8	50-150	2 97	25	L541421-01	WG560533
o-Terphenyl				69.98	50-150				WG560533

Batch number /Run number / Sample number cross reference

WG560542: R1897432: L541457-01 03 04 WG560680 R1898075: L541457-02 WG560558: R1898132: L541457-02 WG560761: R1898333: L541457-02 WG560568 R1898715: L541457-01 03 04 WG560533 R1898952: L541457-01 03 04

^{* *} 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.'



XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

Quality Assurance Report Level II

L541457

October 17, 2011

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

Est 1970

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

Company Name/Address	npany Name/Address Alternate Billing			ate Billing					tainer/F	reserva	ative	Chain of Custody		
Collected by Collected by(signature) Collected by(signature) Packed on Ice N_ Y	Rush? (Lab MUS Next Da Two Da	Report to Jame # IA ST be Notified) ay100% ay25% x Depth	O31810S ames McDani es_mcdaniel@xl Lab Project # P.O # Date Result Email?N	State Collected	Mo of contrs	XX &CNS (DRO/6RO)/1-402/Ccc/	(8031(BIEX)/1-402/1001	X TCLP Nets 1 1-402 (Coc)	tainer/F	reserva	itive	Prepared by ENVIRON Science corp 12065 Lebar Mt. Juliet TN Phone (615) Phone (800) FAX (61: CoCode XTORNM Template/Prelogin Shipped Via: Fed Ex Remarks/contaminant LSY / 457 - 2 (/	F218 MENTAL on Road 37122 758-5858 767-5859	
Reknquisher by (Signature		Doorwood by 16	Signature) Signature) ^v	M		43 Sample Temp		1819 led via F	296 FedEx_X	iles Reći		TempFlowCondition	Other(lab use only)	

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Client:	XTO	Project #:	98031-0528
Sample ID:	NW Wall	Date Reported:	10-21-11
Laboratory Number:	60048	Date Sampled:	10-20-11
Chain of Custody No:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Extracted:	10-20-11
Preservative:	Cool	Date Analyzed:	10-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	49.7	0.1
Total Petroleum Hydrocarbons	49.7	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, December 1996.

Comments:

Ohio F Govt A #1

Analyst



Client:	XTO	Project #:	98031-0528
Sample ID:	NE Wall	Date Reported:	10-21-11
Laboratory Number:	60049	Date Sampled:	10-20-11
Chain of Custody No:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Extracted:	10-20-11
Preservative:	Cool	Date Analyzed:	10-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, December 1996.

Comments:

Ohio F Govt A #1

Analyst



Client:	XTO	Project #:	98031-0528
Sample ID:	SW Wall	Date Reported:	10-21-11
Laboratory Number:	60050	Date Sampled:	10-20-11
Chain of Custody No:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Extracted:	10-20-11
Preservative:	Cool	Date Analyzed:	10-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	11.7	0.1
Total Petroleum Hydrocarbons	11.7	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, December 1996.

Comments:

Ohio F Govt A #1



Client:	XTO	Project #:	98031-0528
Sample ID:	SE Wall	Date Reported:	10-21-11
Laboratory Number:	60051	Date Sampled:	10-20-11
Chain of Custody No:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Extracted:	10-20-11
Preservative:	Cool	Date Analyzed:	10-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND ,	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, December 1996.

Comments:

Ohio F Govt A #1

Analyst



Client:	XTO	Project #:	98031-0528
Sample ID:	Floor @ 20'	Date Reported:	10-21-11
Laboratory Number:	60052	Date Sampled:	10-20-11
Chain of Custody No:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Extracted:	10-20-11
Preservative:	Cool	Date Analyzed:	10-20-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	59.9	0.2
Diesel Range (C10 - C28)	91.2	0.1
Total Petroleum Hydrocarbons	151	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, December 1996.

Comments:

Ohio F Govt A #1

Analyst



Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-20-11 QA/QC	Date Reported:	10-21-11
Laboratory Number:	60022	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-20-11
Condition:	N/A	Analysis Requested:	TPH

	(I:Cal(Date)	I-Cal(RF	C-Cal RF: ⇒ %	Difference	Accept Range
Gasoline Range C5 - C10	10-20-11	1.012E+03	1.012E+03	0.04%	0 - 15%
Diesel Range C10 - C28	10-20-11	1.005E+03	1.006E+03	0.04%	0 - 15%

Blank €onc. (mg/l⊆=mg/Kg)	Concentration	
Gasoline Range C5 - C10	4.5	0.2
Diesel Range C10 - C28	4.3	0.1

Duplicate Conc∄(mg/Kg)	, √Sample; ⊹	Duplicate	::%Difference	Range
Gasoline Range C5 - C10	342	339	1.0%	0 - 30%
Diesel Range C10 - C28	53.4	63.8	19.5%	0 - 30%

Spike Conc. (mg/Kg)	Sample.	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	342	250	587	99.2%	75 - 125%
Diesel Range C10 - C28	50.5	250	310	103%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid

Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 59999-60000, 60022-60023, 60044, 60048-60054

Analyst



Client:	XTO	Project #:	98031-0528
Sample ID:	NW Wall	Date Reported:	10-21-11
Laboratory Number:	60048	Date Sampled:	10-20-11
Chain of Custody:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Analyzed:	10-21-11
Preservative:	Cool	Date Extracted:	10-21-11
Condition:	Intact .	Analysis Requested:	BTEX
		Dilution:	10

	Dilution:	10
Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
_		
Benzene	ND	0.9
Toluene	23.8	1.0
Ethylbenzene	26.6	1.0
p,m-Xylene	58.5	1.2
o-Xylene	39.6	0.9
Total BTEX	149	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	82.1 %
	1,4-difluorobenzene	92.3 %
	Bromochlorobenzene	86.3 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846;

USEPA, December 1996.

Comments:

Ohio F Govt A #1

Analyst



Client:	ХТО	Project #:	98031-0528
Sample ID:	NE Wall	Date Reported:	10-21-11
Laboratory Number:	60049	Date Sampled:	10-20-11
Chain of Custody:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Analyzed:	10-21-11
Preservative:	Cool	Date Extracted:	10-21-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

		Det.
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)

Benzene	ND	0.9
Toluene	5.9	1.0
Ethylbenzene	· 1.2	1.0
p,m-Xylene	10.6	1.2
o-Xylene	3.3	0.9
Total BTEX	21.0	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	81.7 %
	1,4-difluorobenzene	90.7 %
	Bromochlorobenzene	86.1 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Ohio F Govt A#1

Analyst



Client:	XTO	Project #:	98031-0528
Sample ID:	SW Wall	Date Reported:	10-21-11
Laboratory Number:	60050	Date Sampled:	10-20-11
Chain of Custody:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Analyzed:	10-21-11
Preservative:	Cool	Date Extracted:	10-21-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Concentration	Det. Limit (ug/Kg)		
(49/119)	(49/119)		
ND	0.9		
1.3	1.0		
2.6	1.0		
54.9	1.2		
20.3	0.9		
79.1			
	(ug/Kg) ND 1.3 2.6 54.9 20.3	Concentration (ug/Kg) Limit (ug/Kg) ND 0.9 1.3 1.0 2.6 1.0 54.9 1.2 20.3 0.9	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	81.2 %
	1,4-difluorobenzene	92:5 %
	Bromochlorobenzene	84.3 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Ohio F Govt A#1

Analyst



Client:	XTO	Project #:	98031-0528
Sample ID:	SE Wall	Date Reported:	10-21-11
Laboratory Number:	60051	Date Sampled:	10-20-11
Chain of Custody:	12800	Date Received:	10-20-11
Sample Matrix:	Soil	Date Analyzed:	10-21-11
Preservative:	Cool	Date Extracted:	10-21-11
Condition:	Intact	Analysis Requested:	BTEX
•		Dilution:	10

		Det.
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)

Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	· ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	84.5 %
	1,4-difluorobenzene	99.6 %
	Bromochlorobenzene	85.4 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Ohio F Govt A #1

Analyst



			Det.
		Dilution:	1.0
Condition:	Intact	Analysis Requested:	BTEX
Preservative:	Cool	Date Extracted:	10-21-11
Sample Matrix:	Soil	Date Analyzed:	10-21-11
Chain of Custody:	12800	Date Received:	10-20-11
Laboratory Number:	60052	Date Sampled:	10-20-11
Sample ID:	Floor @ 20'	Date Reported:	10-21-11
Client:	XTO	Project #:	98031-0528

Parameter	Concentration (ug/Kg)	Det. Limit (úg/Kg)	
Benzene	ND	0.9	
Toluene	63.2	1.0	
Ethylbenzene	65.2 ⁻	1.0	
p,m-Xylene	826	1.2	
o-Xylene	202	0.9	
Total BTEX	1,160		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	83.8 %
	1,4-difluorobenzene	91.1 %
	Bromochlorobenzene	91.5 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods.for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Ohio F Govt A #1

Analyst



1.2

0.9

Client:	N/A		Project #:	1	N/A
Sample ID:	1021BBLK QA/QC	I	Date Reported:		10-21-11
Laboratory Number:	60048		Date Sampled:	I	N/A
Sample Matrix:	Soil	1	Date Received:	I	N/A
Preservative:	N/A		Date Analyzed:		10-21-11
Condition:	N/A		Analysis:		BTEX
		1	Dilution:	1	0
Calibration/and (Datection Limits (ug/L)	JLCal RF	© Cal RF Accept Rang	4 , <u>[%Diff]</u> e 015%	Blank ©onc	Detect Limit
Benzene	3.1626E+006	3.1690E+006	0.2%	ND	0.1
Toluene	3.4397E+006	3.4466E+006	0.2%	ND	0.1
Ethylbenzene	3.1384E+006	3.1447E+006	0.2%	ND	0.1
p,m-Xylene	8.7075E+006	8.7249E+006	0.2%	ND	0.1
o-Xylene	2 9398E+006	2.9457E+006	0.2%	ND	0.1
Duplicate(Conc. (ug/Kg))	Sample Sample	Duplicate " a	%Diff.	(Accept Range)	⊋∝∜Detect∜Ľimit;
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	23.8	29.7	24.8%	0 - 30%	1.0
Ethylbenzene	26.6	33.9	27.4%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample) Amo	unt Spiked Spil	ked Sample //////////	Recovery 7.8	Accept Range
Benzene	ND	500	493	98.6%	39 - 150
Toluene	23.8	500	530	101%	46 - 148
Ethylbenzene	25.6	500	543	103%	32 - 160
p,m-Xylene	58.5	1000	1,110	105%	46 - 148
o-Xylene	39.6	500	557	103%	46 - 148

59.5

39.6

76.2

47.8

28.1%

20.7%

0 - 30%

0 - 30%

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References:

p,m-Xylene

o-Xylene

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments: QAQC for samples 60048-60054

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc com

CHAIN OF CUSTODY RECORD

12800

Client:	-141k	NES		Project Name /		रा											ANAL	YSIS	/ PAF	RAME	TERS	 3				
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Tax I.D 62-0814289

Est. 1970

James McDaniel XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

Report Summary

Monday October 31, 2011

Report Number: L544128 Samples Received: 10/29/11 Client Project:

Description: Ohio F Govt 1A

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 - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences Note \cdot The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP

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YOUR LAB OF CHOICE

REPORT OF ANALYSIS

October 31,2011

James McDaniel XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

ESC Sample # : L544128-01

Date Received : October 29, 2011
Description : Ohio F Govt 1A

Site ID :

Sample ID

: SANDSTONE 26 FT

Project # :

Collected By : Joshua Kirchner Collection Date : 10/28/11 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.		%	2540G	10/31/11	1
Benzene Toluene Ethylbenzene Total Xylene	0.39 20. 16. 100	0.12 1.2 0.12 0.35	mg/kg mg/kg mg/kg mg/kg	8021/8015 8021/8015 8021/8015 8021/8015	10/31/11 10/31/11 10/31/11 10/31/11	200 200 200 200
TPH (GC/FID) Low Fraction Surrogate Recovery-%	1900	24.	mg/kg	GRO	10/31/11	200
<pre>a,a,a-Trifluorotoluene(FID) a,a,a-Trifluorotoluene(PID)</pre>	96.9 101		% Rec. % Rec.	8021/8015 8021/8015	10/31/11 10/31/11	200 200
TPH (GC/FID) High Fraction Surrogate recovery(%)	1200	94.	mg/kg	3546/DRO	10/31/11	20
o-Terphenyl	0.00		% Rec.	3546/DRO	10/31/11	20

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

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REPORT OF ANALYSIS

October 31,2011

James McDaniel XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

ESC Sample # · L544128-02

Date Received : October 29, 2011
Description : Ohio F Govt 1A

Sample ID : FLOOR 20 FT

Site ID : Project # :

Collected By : Joshua Kirchner Collection Date : 10/28/11 10:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.		%	2540G	10/31/11	1
Benzene Toluene Ethylbenzene Total Xylene TPH (GC/FID) Low Fraction Surrogate Recovery-%	BDL BDL BDL 0.0089 0.59	0.0028 0.028 0.0028 0.0083 0.55	mg/kg mg/kg mg/kg mg/kg mg/kg	8021/8015 8021/8015 8021/8015 8021/8015 GRO	10/30/11 10/30/11 10/30/11 10/30/11 10/30/11	
a,a,a-Trifluorotoluene(FID) a,a,a-Trifluorotoluene(PID)	99.0 107.		% Rec. % Rec.	8021/8015 8021/8015	10/30/11 10/30/11	
TPH (GC/FID) High Fraction Surrogate recovery(%)	61.	4.4	mg/kg	3546/DRO	10/30/11	_
o-Terphenyl	99.9		% Rec.	3546/DRO	10/30/11	1

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

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Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L544128-01	WG563059	SAMP	o-Terphenyl	R1915474	J7

Attachment B Explanation of QC Qualifier Codes

Oualifier

Meaning

J7

Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by
 Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed 10/31/11 at 16:25:01

TSR Signing Reports: 288 R2 - Rush: Next Day

Sample: L544128-01 Account: XTORNM Received: 10/29/11 09.00 Due Date: 10/31/11 00:00 RPT Date: 10/31/11 16:24 Sample: L544128-02 Account: XTORNM Received: 10/29/11 09.00 Due Date: 10/31/11 00:00 RPT Date. 10/31/11 16:24



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Quality Assurance Report Level II

L544128

October 31, 2011

	_		atory Blank		_	
Analyte	Resul	t Unit	s % Rec	Limit	Batch	Date Analyze
Benzene	< .00	05 m/g/k	.α .	m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	' WG563116	10/29/11 23.
Ethylbenzene	< .00			*		10/29/11 23:
Toluene	< .00					10/29/11 23
TPH (GC/FID) Low Fraction	< .1	. mg/k				10/29/11 23
Total Xylene	< 00					10/29/11 23
a,a,a-Trifluorotoluene(FID)	\ 00	* Re		59-128		10/29/11 23:
a,a,a-Trifluorotoluene(PID)		, % 'Re		54-144		10/29/11 23
Total Solids	< 1	*			WĢ563076	10/31/11 09
TPH (GC/FID) High Fraction	· < 4 `	ppm		•	WG563059	10/30/11 11
o-Terphenyl	1	° R∈	97.57	50-150	WG563059	10/30/11 11:
Benzene	< .00			•		10/31/11 14.
Ethylbenzene	< .00					10/31/11 14
Poluene	< .00					10/31/11 14.
PPH (GC/FID) Low Fraction	< ,1	mg/k				10/31/11 14.
Total Xylene	< .00					10/31/11 14:
a,a,a-Trifluorotoluene(FID)		% Re		59-128		10/31/11 14.
a,a,a-Trifluorotoluene(PID)		% Re	c 104.2	54-144	WG563200	10/31/11 14:
		I	Ouplicate			
Analyte	Units	Result	Duplicate RPI	D Limit	Ref Sam	p Batch
Total Solids	, · · · · · · · · · · · · · · · · · · ·	89.0	89.2 0 1	L28 5	L544138	-07 WG5630
					7244730	-07 WG5630
	, , , , , , , , , , , , , , , , , , ,	Laborator			1544136	-07 WG5630
Analyte	Units	Laborator Known Va	ry Control Sample	% Rec	Limit	Batch
		Known Va	ry Control Sample			
Benzene	Units mg/kg		y Control Sample Result	% Rec	Limit	Batch WG5631
Benzene Sthylbenzene	Units mg/kg mg/kg	Known Va	y Control Sample Result 0 0507	% Rec	Limit 76-113	Batch WG5631 WG5631
Benzene Sthylbenzene Poluene	Units mg/kg mg/kg mg/kg	.05 .05 .05 .05	y Control Sample Result 0 0507 0.0532 0.0518	% Rec 101. 106	Limit 76-113 78-115	Batch WG5631 WG5631 WG5631
Benzene Sthylbenzene Foluene Fotal Xylene	Units mg/kg mg/kg	Known Va .05 05	y Control Sample Result 0 0507 0.0532	% Rec 101. 106 104	Limit 76-113 78-115 76-114	Batch WG5631 WG5631 WG5631 WG5631
Benzene Ethylbenzene Foluene Fotal Xylene a,a,a-Trifluorotoluene(PID)	Units mg/kg mg/kg mg/kg .mg/kg	Known Va .05 .05 .15	O 0507 0.0532 0.0518 0.158	% Rec 101 106 104 105	Limit 76-113 78-115 76-114 81-118	Batch WG5631 WG5631 WG5631 WG5631
Analyte Benzene Ethylbenzene Toluene Total Xylene 1,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	Units mg/kg mg/kg mg/kg	.05 .05 .05 .05	y Control Sample Result 0 0507 0.0532 0.0518	% Rec 101. 106 104 105. 105.6	Limit 76-113 78-115 76-114 81-118 54-144	Batch
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	Units mg/kg mg/kg mg/kg .mg/kg	Known Va .05 .05 .15	O 0507 0.0532 0.0518 0.158	% Rec 101. 106 104 105 105 6	11mit 76-113 78-115 76-114 81-118 54-144 67-135	MG5631 WG5631 WG5631 WG5631 WG5631 WG5631
Benzene Bthylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction	Units mg/kg mg/kg mg/kg .mg/kg	Known Va 05 05 05 15 5 5	O Control Sample Result 0 0507 0 0532 0 0518 0 158 5.52	% Rec 101 106 104 105 105 6 100 103 0	Timit 76-113 78-115 76-114 81-118 54-144 67-135 59-128	Batch WG5631 WG5631 WG5631 WG5631 WG5631
Senzene Schylbenzene Coluene Cotal Xylene Cotal Xylene Cotal Xylene Cotal Xylene Cotal Xylene Cotal Trifluorotoluene(FID) Cotal Solids COTAL GCC/FID) High Fraction	Units mg/kg mg/kg mg/kg mg/kg	05 05 05 15 5 5	O CONTROL Sample Result 0 0507 0.0532 0.0518 0.158 5.52 50 0	% Rec 101. 106 104 105. 105 6 100 103 0	Limit 76-113 78-115 76-114 81-118 54-144 67-135 59-128	Batch WG5631 WG5631 WG5631 WG5631 WG5631 WG5630
Benzene Sthylbenzene Toluene Total Xylene Total Xylene Total Xylene Total Solids Total Solids TOTAL (GC/FID) High Fraction Total Solids TOTAL (GC/FID) High Fraction Total Solids TOTAL (GC/FID) High Fraction Total Solids	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5 5 5 5 60 60	Ty Control Sample Result 0 0507 0.0532 0.0518 0.158 5.52 50 0 52 3	% Rec 101. 106 104 105 105 6 100 103 0 100 87 2 92 10	Limit 76-113 78-115 76-114 81-118 54-144 67-135 59-128 85-155 50-150 50-150 76-113	Batch WG5631 WG5631 WG5631 WG5631 WG5631 WG5630 WG5630 WG5630
Senzene Schylbenzene Schylbenzene Schulene Schal Xylene Schal Xylene Schal Xylene Schal Xylene Schal Xylene Schal Xylene Schal Schulene Schal Schulene	Units mg/kg mg/kg mg/kg mg/kg mg/kg ppm	Known Va .05 .05 .05 .05 .15 .5 .5 .60	Ty Control Sample Result 0 0507 0.0532 0.0518 0.158 5.52 50 0 52 3 0.0465 0.0496	% Rec 101 106 104 105 105 6 100 103 0 100 87 2 92 10 93 1 99 3	Limit 76-113 78-115 76-114 81-118 54-144 67-135 59-128 85-155 50-150 50-150 76-113 78-115	Batch WG5631 WG5631 WG5631 WG5631 WG5630 WG5630 WG5630 WG5632 WG5632
Senzene Sthylbenzene Sthylbenzene Toluene Total Xylene A,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction A,a,a-Trifluorotoluene(FID) Total Solids TPH (GC/FID) High Fraction D-Terphenyl Senzene Sthylbenzene Toluene	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	50 60 C5	Ty Control Sample Result 0 0507 0.0532 0.0518 0.158 5.52 50 0 52 3 0.0465 0.0496 0.0493	* Rec 101. 106 104 105 105 6 100 103 0 100 87 2 92 10 93 1 99 3 98 6	Limit 76-113 78-115 76-114 81-118 54-144 67-135 59-128 85-155 50-150 50-150 76-113 78-115 76-114	Batch WG5631 WG5631 WG5631 WG5631 WG5631 WG5630 WG5630 WG5630 WG5632
Senzene Schylbenzene Coluene Cotal Xylene Cotal Xylene Cotal Xylene Cotal Soluto Cotal Xylene	Units mg/kg mg/kg mg/kg mg/kg mg/kg ppm	Known Va .05 .05 .05 .05 .15 .5 .5 .60	Ty Control Sample Result 0 0507 0.0532 0.0518 0.158 5.52 50 0 52 3 0.0465 0.0496	% Rec 101. 106 104 105. 105 6 100 103 0 100 87 2 92 10 93 1 99 3 98 6 98 8	Limit 76-113 78-115 76-114 81-118 54-144 67-135 59-128 85-155 50-150 50-150 76-113 78-115 76-114 81-118	Batch WG5631 WG5631 WG5631 WG5631 WG5631 WG5630 WG5630 WG5632 WG5632 WG5632
Senzene Sthylbenzene Toluene Total Xylene Total Xylene Total Xylene Total Solids TH (GC/FID) High Fraction Total Solids TH (GC/FID) High Fraction Terphenyl Senzene Sthylbenzene Total Xylene Total Xylene Total Trifluorotoluene(PID)	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Known Va .05 .05 .05 .15 .5550 .60 .05 .05 .05 .15	Ty Control Sample Result 0 0507 0.0532 0.0518 0.158 5.52 50 0 52 3 0.0465 0.0496 0.0493 0.148	% Rec 101. 106 104 105 105 6 100 103 0 100 87 2 92 10 93 1 99 3 98 6 98 8 101 6	Limit 76-113 78-115 76-114 81-118 54-144 67-135 59-128 85-155 50-150 50-150 76-113 78-115 76-114 81-118 54-144	Batch WG5631 WG5631 WG5631 WG5631 WG5630 WG5632 WG5632 WG5632 WG5632
Genzene Sthylbenzene Toluene Fotal Xylene A,a,a-Trifluorotoluene(PID) FPH (GC/FID) Low Fraction A,a,a-Trifluorotoluene(FID) Fotal Solids	Units mg/kg mg/kg mg/kg mg/kg mg/kg ppm mg/kg mg/kg	50 60 C5	Ty Control Sample Result 0 0507 0.0532 0.0518 0.158 5.52 50 0 52 3 0.0465 0.0496 0.0493	% Rec 101. 106 104 105. 105 6 100 103 0 100 87 2 92 10 93 1 99 3 98 6 98 8	Limit 76-113 78-115 76-114 81-118 54-144 67-135 59-128 85-155 50-150 50-150 76-113 78-115 76-114 81-118	Batch WG5631 WG5631 WG5631 WG5631 WG5631 WG5630 WG5632 WG5632 WG5632 WG5632

^{*} 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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Aztec, NM 87410

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Quality Assurance Report Level II

L544128

October 31, 2011

				Sample Dupl					
Analyte	Units	Result	Ref	%Rec	Limi	t	RPD	Limit	Batch
Benzene	mg/kg	0.0515	0.0507	103	76-1	.13	1.47	20	WĞ5631
Ethylbenzene	mg/kg	0 0524	0.0532	105	78-1		1.58	. 20	WG5631
Toluene	mg/kg	0 0516	0.0518	103	76-1		0.480		WG5631
Total Xylene	mg/kg	0.155	0.158	103	81-1		2.18	20	WG5631
a,a,a-Trifluorotoluene(PID)	mg/kg	0.155	0.136	106.3	54-1		2.10	20	WG5631
TPH (GC/FID) Low Fraction	mar /lea	F 61	5.52	102.	67-1		1 50	20	WG5631
	mg/kg	5.61	5.52				į 52	20	
a,a,a-Trifluorotoluene(FID)				103.1	59-:	128			₩ <u>Ģ</u> 5631
TPH (GC/FID) High Fraction	ppm	49 1	52 3	82 0	50-		6 36	25	WG5630
o-Terphenyl	ч			86.25	50-1	50			WG5630
Benzene	mg/kg	0.0474	0.0465	95 0	76-:	113	1 92	20	WG5632
Ethylbenzene	mg/kg	0 0507	0 0496	101	78-1	115	2 08	20	WG5632
Toluene	mg/kg	0 0495	0.0493	99 0	76-1	114	0 420	20	WG5632
Total Xylene	mg/kg		0.148	101.	81-		1 95	20	WG5632
a,a,a-Trifluorotoluene(PID)	9, 1.9	,		101 6	54 -			- -	WG5632
TPH (GC/FID) Low Fraction	mg/kg	5 24	5.46	95 0	67-		4 09	20	WG5632
a,a,a-Trifluorotoluene(FID)	9/ 129	J 2.	3.10	97 28	59-1		. 0,	20	WG5632
Analyte	Units	MS Res	Matrix S Ref Re		% Rec	Limit		Ref Samp	Batch
Benzene 🤫 :	mg/kg	0 242	0	. 05	96.9	32-137		L544161-06	WG5631
Ethylbenzene	mg/kg	0 264	0	. 05	106	10-150		L544161-06	WG5631
Toluene	mg/kg	0.258	0	05	103	20-142		L544161-06	WG5631
Total Xylene	mg/kg	0.794	0	. 15	106.	16-141		L544161-06	WG5631
a,a,a-Trifluorotoluene(PID)					105.9	54-144	:		WG5631
TPH (GC/FID) Low Fraction	mg/kg	23 9	0 137	5 5	86.5	55-109	1	L544161-06	WG5631
a,a,a-Trifluorotoluene(FID)	•			•	,101.9	59-128			WG5631
TPH (GC/FID) High Fraction	mqq	51.5	0	60	85 8	50-150	,	L544129-03	WG5630
o-Terphenyl	FF	,	-		83.12	50-150			WG5630
-	4.								
Benzene	mg/kg	2.57	0	05	103.	32-137		L544017-04	WG5632
Ethylbenzene	mg/kg	2.55	0 042		100	10-150		L544017-04	WG5632
Toluene	mg/kg	2 57	0	. 05	103.	20-142		L544017-04	WG5632
Total Xylene	mg/kg	8.57	0.790	.15	104	16-141		L544017-04	WG5632
a,a,a-Trifluorotoluene(PID)					103 2	54-144		-	WG5632
TPH (GC/FID) Low Fraction	mg/kg	247.	14.9	5.5	84 4	55-109)	L544017-04	WG5632
a,a,a-Trifluorotoluene(FID)					99 36	59-128	1		WG5632
		Matr	rix Snike	Duplicate					
Analyte	Units	MSD	Ref	%Rec_	Limit	RPD	Limit	Ref Samp	Batch
Benzene ::	mg/kg	0 232	0 242	92.8	32-137	4.34	39 .	L544161-06	WG5631
Delizere .		0.232	0 242	94.4	10-150	11 1	39 44	L544161-06	WG5631
Ethylbenzene	mg/kg					8 94	44		WG5631 WG5631
Toluene	mg/kg	0 236	0 258	94 3	20-142			L544161-06	
Total Xylene	mg/kg	0.701	0.794	93.5	16-141	12.4	46	L544161-06	WG5631
a,a,a-Trifluorotoluene(PID)				105.0	54-144			* "	WG5631
TPH (GC/FID) Low Fraction	. mg/kg	24 5	23 9	88.7	55-109	2 49	20_	L544161-06	WG5631
a,a,a-Trifluorotoluene(FID)				102.4	59-128	*			WG5631
TPH (GC/FID) High Fraction	ppm	52 9	51 5	88 2	50-150	2 79	25	L544129-03	WG5630
o-Terphenyl			•	88.24	50-150	,			wG5630

o-Terphenyl

* 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 James McDaniel

382 County Road 3100

Aztec, NM 87410

Quality Assurance Report Level II

L544128

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

October 31, 2011

		,	Matrix Spik	e Duplicate	<u> </u>				
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	2.59	2.57	104	32-137	. o 810 .	39-	L544017-04	`WG563200
Ethylbenzene	mg/kg	2.57	2.55	101	~10-150	0 830	44	L544017-04	WG563200
Toluene	mg/kg	2 55	2.57	102	20-142	0 930	42	L544017-04	WG563200
Total Xylene	mg/kg	8.66	8.57	105.	16-141	0.980	46	L544017-04.	WG563200
a,a,a-Trifluorotoluene(PID)			· ••	102.9	54-144	• -			WG563200
TPH (GC/FID) Low Fraction	mg/kg	260	247	89 0	55-109	5 08	20	L544017-04	WG563200
a,a,a-Trifluorotoluene (FID)	*			104.7	59-128	4.			WG563200

Batch number /Run number / Sample number cross reference

WG563116 R1914212 L544128-02 WG563076 R1915067 L544128-01 02 WG563059 R1915474: L544128-01 02 WG563200 R1915534. L544128-01

^{* *} 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.'



XTO Energy - San Juan Division James McDaniel 382 County Road 3100

Aztec, NM 87410

Quality Assurance Report Level II

L544128

October 31, 2011

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

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

Company Name/Address			Alternate B	illing				Anal	ysis/Cont	tainer/Prese	rvative				
XTO ENERGY, IN	C.										W. 19	Pageof _. _			
382 County Road 3100 AZTEC, NM 87410							romane rhighed rhighed rhighed rhighed				W. Nr. 200,000.00	Prepared by	₄ 109		
			4 - 1 - 2 - 3 - 4 - 6 - 6 - 7								1. A. Marie	ENVIRO	ONMENTAL ICE CORP		
			Report to, James McDaniel								100	12065 Lebar	ion Road		
·			E-mail to james_mcdaniel@xtoenergy com						virolini urimi di Elizaki		28 64 8-	Mt. Juliet TN	37122		
Project Description Ohio F Govt # 1A				City/Stat	te Collected					7.00m 7.00m 7.00m		Phone (615)	750 5050		
PHONE 505-333-3701 Client Project No.				Lab Project#							100 C	Phone (800			
AX.				1					52-41 (2) 20-30-47 (40-30-48)		33 M	FAX (61	5)758-5859		
Collected by Joshua Kirchner	ected by Joshua Kirchner Site/Facility ID#			P 0.#								GoCode	(lab use only)		
Collected by(signature)		ab MUST be	•	Date Results Nee	eded	No						XTORNM TemplaterPrelogin			
		WO Day		Email?No_X		of	8015	802	Lyφ (s		*				
Packed on Ice NY	 	Three Day.	25% T	FAX?No	res	4	T.	втех			464.62.53	Shipped Via: Fed Ex			
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs		1		() () () () () () () () () ()	100	Remarks/contaminant	Sample # (lab only)		
SANDSTONE @ 26'	GRAB	SOIL	260	10/28/11	loca .	1	X	X					6540168-01 ·		
FLOOR @ 20'	COMP	SOIL	1030	10/28/11	[630]	1	X	X	TRAC MANIES		4 d d d d				
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							No.			1900-X	33.50				
Matrix SS-Soil/Solid GW-Groundw	ater \\\\\\	etawatar D	NA-Drinking V	Water OT-Other							ьн	Temp			
Remarks "ONLY 1 COC Per Site										١	,,,	remp			
Relingtpisher by (Signature Date Time.			ults to joshua@nelsonreveg.com Received by (Signature)				Samples returned via FedE_X_UPS_Other					Condition	(lab use only)		
Benquisher by:(Signature Date Time		Received by (Signature)				Temp Bottles Received:					district the second sec				
Relinquisher by (Signature Date Time			Received (laptoy: (Signature)				Date Time 7 0 900					pH Checked: NCF			



COVER LETTER

Tuesday, November 08, 2011

James McDaniel XTO Energy 382 County Road 3100 Aztec, NM 87410

TEL: (505) 333-3100 FAX (505) 333-3280

RE: OHIO F Govt #1A

Dear James McDaniel:

Order No.: 1111324

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 11/5/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682

Andy Freeman

Laboratory Manager

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Nov-11 Analytical Report

CLIENT:

XTO Energy

Lab Order:

1111324

Project: Lab ID:

OHIO F Govt #1A

1111324-01

Client Sample ID: Sandstone 26'

Collection Date: 11/4/2011

Date Received: 11/5/2011

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	···· <u>-</u>				Analyst: SCC
Diesel Range Organics (DRO)	120	10		mg/Kg	1	11/7/2011 11:14:16 AM
Surr: DNOP	112	73.4-123		%REC	1	11/7/2011 11:14:16 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	310	100		mg/Kg	20	11/6/2011 3:54:38 PM
Surr: BFB	151	75.2-136	s	%REC	20	11/6/2011 3:54:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		mg/Kg	20	11/6/2011 3:54:38 PM
Toluene	4.8	1.0		mg/Kg	20	11/6/2011 3:54:38 PM
Ethylbenzene	2.1	1.0		mg/Kg	20	11/6/2011 3:54:38 PM
Xylenes, Total	28	2.0		mg/Kg	20	11/6/2011 3:54:38 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	20	11/6/2011 3:54:38 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank В
- Ή Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

Date: 08-Nov-11

QA/QC SUMMARY REPORT

Client:

XTO Energy

Project:

OHIO F Govt #1A

Work Order:

1111324

Analyte	Result	Units	PQL	SPK V	a SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: D	iesel Range	•				5 () (5				4457/0044 44	2.04.57.41
Sample ID: MB-29228		MBLK				Batch ID:	29228	Analys	is Date:	11/7/2011 10	J:U4:57 AN
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-29228		LCS				Batch ID:	29228	Analys	is Date:	11/7/2011	9:39:35 AI
Diesel Range Organics (DRO)	48.29	mg/Kg	_10	50	0	96.6	66.7	119			
Method: EPA Method 8015B: G	asoline Ra	nge									
Sample ID: 5ML-RB		MBLK				Batch ID:	R48910	Analys	is Date	11/6/2011 1	1:05:59 Af
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		LCS				Batch ID:	R48910	Analys	is Date:	11/6/2011	1:01:37 Př
Gasoline Range Organics (GRO)	27.47	mg/Kg	5.0	25	0	110	86.4	132	_		
Method: EPA Method 8021B: V	olatiles										
Sample ID: 1111324-01A MSD		MSD				Batch ID:	R48910	Anaiys	is Date:	11/6/2011	9:12:04 PI
Benzene	16.93	mg/Kg	1.0	20	0.0826	84.2	67.2	113	12.9	14.3	
Toluene	22.04	mg/Kg	1.0	20	4.752	86.5	62.1	116	10.9	15.9	
Ethylbenzene	19.62	mg/Kg	1.0	20	2.098	87.6	67.9	127	10.0	14.4	
Xylenes, Total	79.26	mg/Kg	2.0	60	28.17	85.2	60.6	134	10.5	12.6	
Sample ID: 5ML-RB		MBLK				Batch ID:	R48910	Analys	is Date:	11/6/2011 1	1:05:59 Al
Benzene	ND	mg/Kg	0.050								
Toluen e	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R48910	Analys	is Date:	11/6/2011	1:30:28 PI
Benzene	0.9987	mg/Kg	0.050	1	0	99.9	83.3	107			
Foluene	1.030	mg/Kg	0.050	1	0	103	74.3	115			
Ethylbenzene	1.023	mg/Kg	0.050	1	0	102	80.9	122			
Kylenes, Total	3.094	mg/Kg	0.10	3	0	103	85.2	123			
Sample ID: 1111324-01A MS		MS				Batch ID:	R48910	Analys	is Date:	11/6/2011 8	3:43:12 PM
Benzene	19.26	mg/Kg	1.0	20	0.0826	95.9	67.2	113			
Toluene	24.59	mg/Kg	1.0	20	4.752	99.2	62.1	116			
Ethylbenzene	21.69	mg/Kg	1.0	20	2.098	98.0	67.9	127			
Kylenes, Total	88.03	mg/Kg	2.0	60	28.17	99.8	60.6	134			

O	ua	lifi	ers

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY			Date Received:		11/5/2011
Work Order Number 1111324	/ 1		Received by:	AMF	
Checklist completed by: Signature	1	///S	Sample ID lab	els checked by	initials
Matrix:	Carrier name	Greyhound			
Shipping container/cooler in good condition?		Yes 🗹	No 🗀	Not Present]
Custody seals intact on shipping container/cools	er?	Yes 🗹	No 🗌	Not Present	Not Shipped
Custody seals intact on sample bottles?		Yes 🗌	No 🗌	N/A ✓	3
Chain of custody present?		Yes 🗹	No 🔲 .		
Chain of custody signed when relinquished and	received?	Yes 🗹	No 🗀		
Chain of custody agrees with sample labels?		Yes 🗹	No 🗌		
Samples in proper container/bottle?		Yes 🗹	No 🔲		
Sample containers intact?		Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?		Yes 🗹	No 🗀		
All samples received within holding time?		Yes 🗹	No 🗀		Number of preserve
Water - VOA vials have zero headspace?	No VOA vials subr	mitted 🗹	Yes	No 🗆	bottles checked for pH:
Water - Preservation labels on bottle and cap m	atch?	Yes 🗌	No 🗌	N/A 🗹	
Water - pH acceptable upon receipt?		Yes 🗌	No 🗀	N/A 🗹	<2 >12 unless noted below.
Container/Temp Blank temperature?		2.9°	<6° C Acceptable		Delow.
COMMENTS:			If given sufficient t	ime to cool.	
		====		====	
Client contacted	Date contacted:		Perso	n contacted	
Contacted by:	Regarding				
Comments:					
Corrective Action					

			istody Record	Turn-Around							L	4 A		FI	A I TA	TD		u M		NT.	. 1	
Client:	XTO	Energy		☐ Standard	Rust	SAMEDAU	, -													TO		, .
				Project Name	. . 	ما						ww	v.hal	lenv	ironr	menta	al.coi	m				
Mailing	Address	s: 	382 CR 3100	OH10 F	- 6001 #	IA		ļ	49	01 H	ławk	ins 1	NE -	Alb	uqu	erque	, NN	f 871	109			
			Aztec, NM 87410	Project #:				1	Te	el. 50	05-34	45-3	975	F	ax	505-3	345~	1107				
Phone	#:	505-7-87	7-0519]	_			1					A	naly	sis	Requ	iest	76	£.,	A Mily And	المراد المراد	
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QA/QC I	Package: dard		☐ Level 4 (Full Validation)	Jai	mes Mo	Daniel	,															
Accredi		☐ Other		Sampler:	XZENIA	ua Kirchne		GRO/DRO														or N)
□ EDD	(Type)			Samplefren	peratures da			GR				S	Metais							-		٤
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type			8015 TPH -	8021 BTEX	418.1 TPH	Chloride	TCLP Metals	RCRA 8 Me									Air Bubbles (Y or N)
1411		Soil	SALDSTOLE 26	402	COUL	111324	-1	1									\neg		\neg			
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Date:	Time.	Rélineuts N	- Valos	Received by:		Dáte	Time															

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

17970



Industrial Exosystems Inc.

#49 C.R. 3150 Aztec NM 87410 Phone: 505-632 \$782 \$ Fast 505-632-1876

Customer

Location Name_ ☐ Jicarilla Apache Land ☐ Southern Ute Land

Unit: $(\rho^{c})/-/$	\supset
Employee: Corce	,
Contact: JAMES MC	Daniel
Date: 10-20-(/	

PO#: Billing Code:___

LABOR		HRS/UNITS		RATE		TOTAL
Equipment Operator	41000.1		Hours/Day	\$	Per hour/day	\$
General Laborer	41000.1		Hours	\$	Per hour	\$
Project Manager	41000.1		Hours	\$	Per hour	\$
Per Diem	41000.1		Hours	\$	Per day/man	\$
Travel Time	41000.1		Hours	\$	Per hour	\$
EQUIPMENT		, , , , , , , , , , , , , , , , , , , ,				
4wd Pickup	42000.1		Miles	\$	Per mile	\$
12yd Dump Truck	42000.1		Hours	\$	Per hour	\$
18yd Side Dump	42000.1		Hours	\$	Per hour	\$
Backhoe with Operator	42000.1		Hours	\$	Per hour	\$
Loader with Operator	42000.1		Hours	\$	Per hour	\$
Excavator with Operator	42000.1		Hours	\$	Per hour	\$
One Ton Truck	42000.1		Hours/Day	\$	Per hour/day	\$
Portable Pressure Wash	42000.1		Hours/Day		Per hour/day	\$
Portable Pres. Wash Unit	42000.1		Hours	\$	Per hour	\$
80 Barrel Vacuum Truck	42000.1		Hours	\$	Per hour	\$
King Vac Truck with Crew	42000.1		Hours	\$	Per hour	\$
Skid Steer	42000.1		Hours	\$	Per hour	\$
Mileage	42000.1		Miles	\$	Per mile	\$
SCBA (Breathing Apparatus)	42000.1		Day	\$	Per day	\$
SCBA Refill	42000.1		Each	\$	Per Refill	\$
LEL,O2,H2S Monitoring	42000.1		Day	\$	Per day	\$
SERVICES						
Chloride Test	45000.2		Each	\$ 500	Per test	\$ 15,00
Mobile Dewatering	42100.1		Hours/Day	\$	Per hour/day	\$
Mob/Demob	42100.1		Hours	\$	Per hour	\$
Monthly Maintenance	45000.1		Month	\$	Per month	\$
SUPPLIES						
Soap/Degreaser			Gallons	\$	Per gallon	\$
Misc. Description:			Each	\$	Per:	\$
Virgin Soil/Gravel	45500.2		Cubic yard	\$	Per yard	\$
DISPOSAL & MISC.						
Disposal Fee (solids)	44000.2	248	Cubic yard	\$50.00	Per yard	\$4.960.0x
Disposal Fee (liquids)	44100.2	1	Per barrel	\$	Per barrel	\$
Facility Use Fee	42000.2	 	Each	\$	Each	\$
A	· ·		1	17	Sub Total	11000 A
Comments: (14)	200	1			Fab.	17,5110.6
					135-4011 64	1

Employee Signature

¢ustomer Signature

Total

FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782

AMOUNTS ARE DUE NET 30 DAYS PURCHASER AGREES TO PAY FINANCE CHARGES OF 1 5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.

Ecosystems Inc.

Backhoe with Operator

Loader with Operator

Customer Signature

Industrial Ecosystems Inc.

42000.1

42000.1

#49 CR 3150 • Acted, NM 87410 Employee: Phone: 505-632-1782 • Fax: 505-632-1876 Contact: Customer PO#: Location Name Billing Code: ☐ Jicarilla Apache Land ☐ Southern Ute Land TOTAL LABOR HRS/UNITS RATE **Equipment Operator** 41000.1 Hours/Day Per hour/day \$ General Laborer 41000.1 Per hour Hours \$ \$ 41000.1 Per hour Project Manager \$ Hours \$ Per Diem 41000.1 Hours \$ Per day/man \$ Per hour \$ Travel Time 41000.1 Hours EQUIPMENT 4wd Pickup 42000.1 Per mile Miles 12yd Dump Truck 42000.1 Hours Per hour \$ \$ 18yd Side Dump 42000.1 \$ Per hour Hours \$

Excavator with Operator \$ Per hour \$ 42000.1 Hours One Ton Truck Per hour/day \$ 42000.1 Hours/Day \$ Portable Pressure Wash 42000.1 Hours/Day Per hour/day \$ Portable Pres. Wash Unit 42000.1 Hours \$ Per hour \$ Per hour 80 Barrel Vacuum Truck 42000.1 Hours \$ \$ \$ King Vac Truck with Crew 42000.1 Hours \$ Per hour 42000.1 Per hour \$ Skid Steer Hours \$ Per mile \$ 42000.1 Miles \$ Mileage \$ SCBA (Breathing Apparatus) 42000.1 Day \$ Per day \$ 42000.1 Each \$ Per Refill SCBA Refill 42000.1 \$ Per day \$ LEL,O2,H2S Monitoring Day **SERVICES** 45000.2 Per test Chloride Test Each \$

Hours

Hours

\$

\$

Per hour

Per hour

Total

\$

\$

42100.1 Mobile Dewatering Hours/Day Per hour/day \$ \$ 42100.1 Mob/Demob Hours Per hour \$ \$ 45000.1 Per month \$ Monthly Maintenance Month \$ SUPPLIES Per gallon Soap/Degreaser Gallons \$ Misc. Description: Each Per: \$ Virgin Soil/Gravel 45500.2 Cubic yard Per yard \$ DISPOSAL & MISC. Per yard Disposal Fee (solids) 44000.2 Cubic yard

Disposal Fee (liquids) Per barrel Per barrel 44100.2 Each Facility Use Fee Each \$ 42000.2 **Sub Total** Comments:

Employee Signature