District I 2,625 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

Release Notification and Corrective Action

			Reie	ase nound	cation	and Co	orrective A	CHOIL	l				
						OPERA	ΓOR		Initi	al Report	\boxtimes	Final Report	
Name of Co	mpany: X7	O Energy,	Inc.		(Contact: James McDaniel							
Address: 38						Telephone No.: (505) 333-3701							
Facility Nar	ne: Hare G	as COM C #	#1E (30-0)45-23566)	1	Facility Type: Gas Well (Dakota)							
Surface Ow	ner: Private	····		Mineral C)wner				I ease !	No.: Fee			
Builde Ow	TIOI. I IIVate			TVIIICIAIC	WIICI.				Lease	10 1 00			
				LOCA	ATION	OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	1	Vest Line	County			
F	25	29N	10W_	1570	<u> </u>	FNL	1730	<u> </u>	WL	San Juan	~ ~ ~ ~		
				Latitude:	36.6993	Longitud	e: <u>-107.8395</u>		_	CVD JUN			
				NI A TI	בו כוו אי	OF DEL	EACE			OIL CONS		,	
Tura e Dala	Cd		1.11/-4	NA I	UKE	OF REL			M.L.	DIST.			
Type of Rele Source of Re							Release: 55 bbls lour of Occurrence			Recovered: 1 Hour of Dis			
Source of Re	icasc. Leakii	ig i roductioi	i i alik			June 8, 20		.e.		011 – 1100	covery.	•	
Was Immedi	ate Notice G	iven?				If YES, To							
1		\boxtimes	Yes [No 🗌 Not R	equired	Brandon P	owell						
By Whom?	James McDa	niel				Date and F	lour: June 13, 201	11 - 0820	0				
Was a Water	course Reacl					If YES, Vo	olume Impacting t	the Wate	ercourse.				
}			Yes 🛚] No		1						ŀ	
If a Watercon	urse was Imp	acted, Descri	be Fully.*	*									
Describe Cau													
							roduction. Upon						
							approximately 55 ned area did not a						
a result furth	e stamed are per investigat	ion of the nit	tank and	other production	eauinme	uc. Tills stat nt was nerfo	rmed to get a bette	er estim:	ation of the	e volume los	t On I	lune 13	
2011. it was	confirmed th	at 55 bbls of	fluids we	re lost. The site v	vas then	ranked pursu	ant to the NMOC	D Guide	elines for t	he Remediat	ion of I	Leaks, Spills	
and Releases	. The site wa	as ranked a 3	0 due to a	n estimated depth	to grour	ndwater of le	ss than 50 feet, ar	nd a dista	ance to sur	face water o	f less th	han 1,000	
			100 ppm "	ΓPH and 100 ppn	n organic	vapors or 10) ppm benzene an	d 50 ppi	m total BT	EX. The lea	king ta	nk was	
removed and	will be repla	aced.											
Describe Are	a Affected a	nd Cleanup A	Action Tal	ren *									
					16, 2011	, with a total	of 1,214 cubic ya	ırds of ir	npacted so	il being remo	oved ar	nd disposed	
of at Envirot	ech's Landfa	rm #2. Samp	oles were	collected periodic	ally duri	ng excavatio	n activities and so	creened	with a pho	to-ionization	detect	or (PID).	
							was collected and						
8015, and if	PID readings	were over 1	00 ppm or	ganic vapors in the	he field,	they were als	so analyzed for Bi	TEX via	USEPA N	1ethod 8021.	. Samp	les results	
of the four (4	zeu in the att	rom the bott	<i>icai Kesui</i> om Back	<i>its Tuble</i> . Closur fill was brought i	e compo: n from th	site sampies ie McDonald	below the NMOC pit. Analytical re	וט regui esults ar	atory stant ad applical	iaius were co	is are a	ittached for	
your reference		Tom the cott	m. Back	im was orought i	ii ii oiii ti	ic mebonare	pit. Tillary troat is	osums an	и пррпоп	ne nera snee	to are a		
I hereby cert	ify that the ir	nformation gi	ven above	is true and comp	lete to th	ne best of my	knowledge and u	ınderstaı	nd that pui	suant to NM	OCD r	ules and	
							nd perform correct parked as "Final R						
should their	onerations ha	onnicin. The ive failed to a	acceptant dequately	investigate 2004	emediate	contaminat	ion that pose a thr	eat to gr	round wate	er, surface wa	ater, hu	man health	
or the enviro	should their operations have failed to adequately investigated smediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance with any other												
federal, state	, or local law	s and/or regu	ulations.	HALL	14. SE			-					
		1/-	/ &		0.2	Ŕ	OIL CON	SERV	ATION	DIVISIO	<u> NC</u>	ļ	
Signature:			Z_N	ミ・ダ フェノフ	2	\mathcal{C}							
Signature.			B	ਤ; / /੭੦/(₩		District Communic		,	7.1			
Printed Nam	e: James Mc	Daniel, CHM	IM #156	10:	\$	Approved by	District Supervis	or: 02	L. Sul	l			
				MW. AWW		7	1 / .1			<u> </u>			
Title: EH&S Supervisor							te: 6/24/11		Expiration	Date:			
Email Adda	oog: Iamaa N	InDanial@	toonore: -		ا سر	Canditians =	f Approval:					1	
E-mail Addr	ess: James_N	ncDamei@Xt	oenergy.c	OIII	'	Conditions o	i Approvat;			Attached	1 🔲		
Date: 6/22/	/2011		Pho	one: 505-333 - 370	1	nJK11.	2235139	79					

Analytical Results

	Sample		USEPA Method 8015	USEPA Method 8021	USEPA Method 8021	
Sample Description	Number	Date	TPH (ppm)	Benzene (ppm)	BTEX (ppm)	OVM (ppm)
NMOCD Standards	- NA	NA	100	10	50	100
North Wall	1	6/14/2011	NS	NS	NS	1977
East Wall	2	6/14/2011	NS	NS	NS	1403
South Wall	3	6/14/2011	NS	NS	NS NS	OVR
West Wall	4	6/14/2011	NS	NS	NS	3471
Floor @ 6'	5	6/14/2011	NS	NS	NS	687
East Wall 2	6	6/14/2011	BDL	BDL	BDL	848
North Wall 2	7	6/14/2011	NS	NS	NS	OVR
North Wall	8	6/14/2011	NS	NS	NS	OVR
South Wall	9	6/14/2011	723	0.33	44.93	3559
West Wall	10	6/14/2011	1.2	NS	NS	51
Floor 7'	11	6/14/2011	BDL	NS	NS	41
North Wall	1	6/15/2011	NS.	NS	NS	OVR
North Wall 2	2	6/15/2011	10	NS	NS	19.3
South Wall	1	6/16/2011	41	0.033	2.94	1520
Floor	2	6/16/2011	NS	NS	NS	119

NS = Not Samples
OVR = Over Range
BDL = Below Detection Limits
Values in **BOLD** exceed regulatory limits
Samples in *Italics* Represent Closure Samples



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

Report Summary

Thursday June 16, 2011

Report Number: L520943
Samples Received: 06/15/11
Client Project:

Description: Nelson Revegetation

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

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

June 16,2011

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

ESC Sample #

L520943-01

Date Received : June 15, 2011 Description : Nelson Revegetation

Site ID :

Sample ID

: FLOOR

Project # :

Collected By : B. Griffith Collection Date · 06/14/11 13:00

Parameter	Dry Result	Det Limit	Units	Method	Date	Dil.
Total Solids	77.		ક	2540G	06/16/11	1
TPH (GC/FID) Low Fraction Surrogate Recovery (70-130)	BDL	0.65	mg/kg	8015D/GRO	06/15/11	5
a,a,a-Trifluorotoluene(FID)	105		% Rec.	602/8015	06/15/11	5
TPH (GC/FID) High Fraction	BDL	5.2	mg/kg	3546/DRO	06/16/11	1
Surrogate recovery(%) o-Terphenvl	67.0		% Rec.	3546/DRO	06/16/11	1

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

Note
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The reported analytical results relate only to the sample submitted
Reported: 06/16/11 13:40 Printed: 06/16/11 13:40



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REPORT OF ANALYSIS

June 16,2011

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

Date Received : June 15, 2011 Description : Nelson Revegetation

Sample ID : WEST WALL

Collected By : B. Griffith Collection Date : 06/14/11 13:00

ESC Sample # : L520943-02

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.		%	2540G	06/16/11	1
TPH (GC/FID) Low Fraction	1.2	0.62	mg/kg	8015D/GRO	06/15/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	104.		% Rec.	602/8015	06/15/11	5
TPH (GC/FID) High Fraction	BDL	5 0	mg/kg	3546/DRO	06/16/11	1
Surrogate recovery(%) o-Terphenyl	75.0		% Rec.	3546/DRO	06/16/11	1

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

Note:

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REPORT OF ANALYSIS

June 16,2011

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

Date Received : June 15, 2011
Description : Nelson Revegetation

Sample ID : SOUTH WALL

Collected By B. Griffith Collection Date: 06/14/11 13:00

ESC Sample # : L520943-03

Site ID : Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	D11.
Total Solids	75.		%	2540G	06/16/11	1
Benzene	0.33	0.033	mq/kq	8021/8015	06/15/11	50
Toluene	6.1	0.33	mg/kg	8021/8015	06/15/11	50
Ethylbenzene	4.5	0 033	mg/kg	8021/8015	06/15/11	50
Total Xylene	34.	0.10	mg/kg	8021/8015	06/15/11	50
TPH (GC/FID) Low Fraction	630	6 7	mg/kg	GRO	06/15/11	50
Surrogate Recovery-%			5. 5			
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/8015	06/15/11	50
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	06/15/11	50
TPH (GC/FID) High Fraction Surrogate recovery(%)	94.	5.4	mg/kg	3546/DRO	06/16/11	1
o-Terphenyl	66.9		% Rec	3546/DRO	06/16/11	1.

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

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REPORT OF ANALYSIS

June 16,2011

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

ESC Sample # : L520943-04

June 15, 2011 Date Received Description : Nelson Revegetation

Site ID : Project # :

Sample ID : EAST WALL

Collected By : B. Griffith Collection Date : 06/14/11 13:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89		ે	2540G	06/16/11	1
Benzene	BDL	0.0028	mg/kg	8021/8015	06/15/11	5
Toluene	BDL	0.028	mg/kg	8021/8015	06/15/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021/8015	06/15/11	5
Total Xylene	BDL	0.0084	mg/kg	8021/8015	06/15/11	5
TPH (GC/FID) Low Fraction	BDL	0.56	mg/kg	GRO	06/15/11	5
Surrogate Recovery-%			3. 3			
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	06/15/11	5
a,a,a-Trifluorotoluene(PID)	108.		% Rec.	8021/8015	06/15/11	5
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4.5	mg/kg	3546/DRO	06/16/11	1
o-Terphenyl	78 9		% Rec.	3546/DRO	06/16/11	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 06/16/11 at 13 40.38

TSR Signing Reports: 288 R2 - Rush: Next Day

drywt

Sample: L520943-01 Account XTORNM Received: 06/15/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/16/11 13:40
Sample: L520943-03 Account: XTORNM Received: 06/15/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/16/11 13:40
Sample: L520943-04 Account: XTORNM Received: 06/15/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/16/11 13:40



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Aztec, NM 87410

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Quality Assurance Report Level II

L520943

June 16, 2011

Analyte	Dog16		aboratory B			Y a mai		Datab	Date 31
naryce	Result		Units	% Rec		Limi	<u> </u>	Batch	Date Analyze
enzene	< .000	5×- 1	mq/kq				*	"WG540574	06/15/11 14
thylbenzene	< 000		mg/kg				-		06/15/11 14
'oluene	< .005		mg/kg						06/15/11 14
PH (GC/FID) Low Fraction	< 1		mg/kg						06/15/11 14
Total Xylene	< 001		mg/kg						06/15/11 14
a,a,a-Trifluorotoluene(FID)	, 001		% Rec	106 2		59-1	128		06/15/11 14
i,a,a-Trifluorotoluene(PID)			% Rec.	110.5		54 - I			06/15/11 14
r, a, a-111111010totuene (F1D)		,	s Rec.	110.5		J4	.44	WG340374	00/13/11 14
TPH (GC/FID) High Fraction	< 4	1	ppm					WG540642	06/16/11 08
o-Terphenyl		,	% Rec	87.83		50-1	150	WG540642	06/16/11 08
Total Solids	< 1		ક					WG540592	06/16/11 09
			Duplicat	е					
Analyte	Units	Resul			RPD		Limit	Ref Samp	Batch
Total Solids .	ક	72 0	72.5		0.566	5	4	L520403-	-19 WG540
		Tahan	atory Contr	ol Campl					
malyte	Units		n Val	Resu		% Re	ec .	Limit	Batch
Benzene .	mg/kg			0 0540		108		76-113	, WG540
Ethylbenzene	mg/kg	.05		0 0553		111		78-115	WG540
Coluene	mg/kg	0.5		0 0545		109		76-114	WG540
Cotal Xylene	mg/kg	15		0.166	•	111		81-118	WG540
a,a,a-Trifluorotoluene(PID)	5. 5					107	0	54-144	WG540
TPH (GC/FID) Low Fraction	mg/kg	5.5		5 98		109		67-135	WG540
a,a,a-Trifluorotoluene(FID)	37 113				-	101	.7 .	59-128	WG540
TPH (GC/FID) High Fraction	ppm	60		49.1		81 8	3	50-150	WG540
o-Terphenyl	, FF		:	*. *		~ 80	06	50-150	WG540
Total Solids	%	50		50 0		100	·	85-155	WG540
		Laboratory	Control Sa	mole Dur	licate				
analyte	Units	Result	Ref	%Rec		Limit	RPD	Lin	nit Batch
	(1	0.0000	0.0540	106		26 13		20	WG540
Senzene	mg/kg	0.0533	0.0540			76-11:			WG540
Ethylbenzene	mg/kg	0 0540	0 0553	108		78-115			
Coluene	mg/kg	0 0531	0 0545	106.		76-11			WG540
Cotal Xylene	mg/kg	0 162	0.166	108.		81-118		20	WG540
a,a,a-Trifluorotoluene(PID)				107 4		54-14			WG540
TPH (GC/FID) Low Fraction	mg/kg	5.70	5 98	104		67-13		20	WG540
a,a,a-Trifluorotoluene(FID)				100.2		59-128	8		WG540
TPH (GC/FID) High Fraction	ppm	52.7	49 1	88 0		50-150		25	WG540
o-Terphenyl				78.07		50-150	0		WG540
			Matrix Spi						
Analyte	Units	MS Res	Ref Res	TV	% Rec		Limit	Ref Samp	Batch
Benzene	mg/kg	0.271	0 '	.05	108.		32-137	L520374-0	
Ethylbenzene	mg/kg	0 272	0	05	109.		10-150	L520374-0	
oluene	mg/kg	0.275	0	.05	110.		20-142	L520374-0	03 WG540
* Performance of this Analyte is		of actabla	ched criter						



XTO Energy - San Juan Division James McDaniel 382 Road 3100

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Quality Assurance Report Level II

Aztec, NM 87410

L520943

June 16, 2011

			Matrix S	Spike					
Analyte	Units	MS Res	Ref Re	s TV	% Rec	Limit		Ref Samp	Batch
Total Xylene	mg/kg	0.824	0	1.5	110.	16-141		L520374-03	WG54057
a,a,a-Trifluorotoluene(PID)					106 8	54-144			WG54057
TPH (GC/FID) Low Fraction	mg/kg	20.4	0	5.5	74.2	55-109		L520374-03	WG54057
a,a,a-Trifluorotoluene (FID)					106.1	59-128		-	WG54057
		Mat	rıx Spike	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	. mg/kg	0.237	0.271	94.8	32-137	13.3	39	L520374~03	WG54057
Ethylbenzene	mg/kg	0.216	0 272	86 3	10-150	23.0	44	L520374-03	WG54057
Toluene	mg/kg	0.227	0.275	90 8	20-142	18 9	42	L520374-03	WG54057
Total Xylene	mg/kg	0.646	0 824	86.1	16-141	24.2	46	L520374-03	WG54057
a,a,a-Trifluorotoluene(PID)				105.9	54-144				WG54057
TPH (GC/FID) Low Fraction	mg/kg	19.3	20 4	70.1	55-109	5 67	20	L520374-03	WG54057

Batch number /Run number / Sample number cross reference

WG540574 R1724629 L520943-01 02 03 04 WG540642 R1725471: L520943-01 02 03 04 WG540592: R1725624: L520943-01 02 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

L520943

June 16, 2011

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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.

XTORNM Alternate billing information.								Ana	lvsis/	Conta	iner/P	reserva	tive		Chain of Custody Page _1_ of _1_
X 1 0 12.4.1.	Rep	ort to	< NA CT	Danie	<u> </u>								SCIENC	ONMENTAL CE CORP. banon Road	
	•				iel Xto		CON							Mt. Juliet,	
Project Al ICan D. (co.)	ده اظ ۱۵	17	City/Sate		ICK AIN	Cru	3.00*							Phone (6	15) 758-5858
Description. Nelson Revegel Phone.	Client Project #		Collected ESC Key				$\frac{1}{2}$							}	00) 767-5859
FAX		•		JM-0318	2018										15) 758-5859
Collected by: B. Griffith	Site/Facility ID	# :	P.O #:			•			メ					A091	
Collected by (signature).	X Ne	me Day	200% . 100%	Date Resu	llts Needed: No_Yes	No.			1 BTEX					CoCodeXTORN	M (lab use only)
Packed on Ice N Y			1	FAX?	No_Yes	Cntrs	12	DRO	22	3				Shipped Via	
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time		U	P	B	 				Remarks/Contaminant	Sample # (lab only)
Floore		55		6/14	13:00		X	X		Х					L 57014301
West Wall		SS		6/14	1300		X	X		X					a
South Wall		_ \$\$		0/14	1300	<u> </u>	X	X	X	X					03
East Wall		<u>SS</u>		6/14	1300		X	X	X	X		-	-		A A
									<u>.</u>						
	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TOTAL OF THE STATE													
*Matrix: SS - SoiVSolid GW - Grou	ındwater WW -	WasteWater	DW - Drin	king Water	OT - Other_			·	<u></u>		<u> </u>		pН	Ter	mp
Remarks:								434	41 0	7819	140	Æ(Flow	Oti	her
Relinquished by: (Signature)	Date.	Time:	Recei	ved by (Signa	ature)				San	nples r edEx	returned Cou	d via 🖂	UPS	Condition:	(lab use only)
Relinquished by: (Signature)	Date:	Time:	Recei	ved by. (Signa	ature)				Ten	np:		Bottles	Receive	ed:	EL
Relinquished by: (Signature)	Date:	Time:	Rece	ived for lab t	oy (Signatur	e)			Da 6-	~	-11	Time ⁻	1:00	pH Checked	NCF:



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

Report Summary

Friday June 17, 2011

Report Number: L521262
Samples Received: 06/16/11
Client Project:

Description: Hare Gas Com C 1E

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

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

June 17,2011

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

ESC Sample # . L521262-01

Date Received : Description

June 16, 2011 Hare Gas Com C 1E

06/16/11 5

NORTH WALL

Site ID : Project # :

602/8015

% Rec

Sample ID

Parameter

Collected By Collection Date :

Walt Howard 06/15/11 10:58

Date Dil. Dry Result Det. Limit Units Method Total Solids 89.5 왕 2540G 06/17/11 1 TPH (GC/FID) Low Fraction Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) 06/16/11 5 BDL 0.56 mg/kg 8015D/GRO

96.7

Results listed are dry weight basis BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL) Note: This report shall not be reproduced, except in full, without the written approval from ESC. The reported analytical results relate only to the sample submitted Reported: 06/17/11 15.05 Printed· 06/17/11 15:06

Page 2 of 8



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REPORT OF ANALYSIS

June 17,2011

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

ESC Sample # : L521262-02

Date Received . June 16, 2011
Description : Hare Gas Com C 1E Description

Sample ID NORTH WALL Site ID :

Collected By . Walt Howard Collection Date : 06/15/11 10:58

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.		8	2540G	06/17/11	1
TPH (GC/FID) High Fraction Surrogate recovery(%)	10.	4.5	mg/kg	3546/DRO	06/17/11	1
o-Terphenyl	65.0		% Rec.	3546/DRO	06/17/11	1

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

Note:
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The reported analytical results relate only to the sample submitted
Reported: 06/17/11 15:05 Printed: 06/17/11 15:06

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L521262-02	WG541005	SAMP	Total Solids	R1727319	J3

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning

The associated batch QC was outside the established quality control range for precision.

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

ıТ3

- 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 06/17/11 at 15.06:17

TSR Signing Reports 288 R1 - Rush: Sameday

drywt

Sample: L521262-01 Account: XTORNM Received: 06/16/11 11:45 Due Date: 06/16/11 00:00 RPT Date: 06/17/11 15:05

Sample: L521262-02 Account: XTORNM Received: 06/16/11 11.45 Due Date: 06/17/11 00:00 RPT Date: 06/17/11 15:05



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L521262

June 17, 2011

				Laborato	ry Blank						
Analyte	Re	sult		Units	% R	ec	Limit		Batch	Date	Analyzed
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	´ <	. 1		mg/kg % Rec	98	96	59-128		WG540842 WG540842		
TPH (GC/FID) High Fraction o-Terphenyl	<,	4	* ,	ppm , % Rec.	68	47	50-150	•	WG540788 WG540788		
Total Solids		1	^	8					WG541005	06/17	/11 12 3
				Dupli	cate						
Analyte	Un	ıts	Resu	lt Du	plicate	RPD	Lımít		Ref Samp	2	Batch
Total Solids	, &		83.0	85	9.5	7 26*	. 5		L521262-	-02	WG54100
Analyte	Un	ıts		ratory Co wn Val		mple esult	% Rec		Limit		Batch
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg	/kg	5.5		5 2	8	95 9 105.0		67-135 59-128		WG54084 WG54084
TPH (GC/FID) High Fraction o-Terphenyl (. pp	m	60		48.	3	80.5 70.65		50-150 50-150		WĞ54078 WG54078
Total Solids	,		50	7+	50.	0 -	Ĭ00_		85-155		-WG54100
		J	Ĺaborator	y Control	l Sample	Duplicate	:				
Analyte	Un	ıts	Result	Ref	%Re	c	Limit	RPD	Lin	nıt	Batch
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg mg	/kg	6.25	5.28	114 105		67-135 59-128	16 9	20		WG54084:
TPH (GC/FID) High Fraction o-Terphenyl	pp	m ´	A6.0 "	48 3	76. 65	0 24	50-150 50-150	4 95	2,5		WG54078
•				' Matrix	Spike						
Analyte	Un	ıts	MS Res	Ref F	Res TV	* Re	c Limit		Ref Samp		Batch
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg	/kg	19 2,	0	5.5	69 7 99			L520797-0)1 .	WG54084: WG54084:
TPH (GC/FID) High Fraction o-Terphenyl	pp	m	43.9	0	60	73 3 65)1	WG54078
Analyte	Un	ıts		rix Spike Ref	Duplica	te Limi	t RPD	Limit	Ref Samp		Batch
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg	/kg	¹ 17.6	19.2 ,	64.1 98.47	55-1 59-1		20	`L520797-0)1	WG54084 WG54084
TPH (GC/FID) High Fraction O-Terphenyl	, pp	m	48 2	43 9 :	80.4 67 01	50-1 50-1		25 .	T250616-0)1 _	WG54078

^{*} 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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Quality Assurance Report Level II

L521262

June 17, 2011

Batch number /Run number / Sample number cross reference

 ^{* *} 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

1.521262

June 17, 2011

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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.

Page 8 of 8

Company Name/Address	Alternate Billing					Analysis/Coi	ntainer/Pre	55	Chain of Custody Pageof			
XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410			XTORNM	1031810S	,		\$.				- Prepared by	
			<u> </u>	nes McDaniel	oenergy com						ENVIRON Science cor 12065 Leba Mt. Juliet TN	non Road
Project Description Hare Gar PHONE, 505-333-3701	Client Project	#1E No.		City/S	State Collected		, ,	7 76			Phone (615) Phone (800	758-5858
Collected by Walt Howard Collected by(signature) Walt Howard Packed on Ice N_YX		# Next Day Two Day Three Day	. 100% (P.O.# Date Result Le 16 Email? N FAX? N	. \	No of	000-			Saw Ja	CoCode XTORNM Template/Prelogin Shipped Via: Fed Ex	(lab use only)
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	į,		_ .	ia.	Remarks/contaminant	Sample # (lab only)
North Wall	comp,	Soil		6.15-11	10,58	1	X					L521267-01/Q
							3.	, ,		2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		\$2.5 ************************************
			_				43.			3 c		
								***				*
								(,		, , , , , , , , , , , , , , , , , , ,		\$1 24.00 49.62
Matrix SS-Soil/Solid GW-Groundw	rater WW-Wa	astewater D	OW-Drinking V	Water OT-0	ther	. [[14	20100	01Q Uz	pH	Temp Flow	Other
Relinguisher by (Signature Relinguisher by (Signature	Date 6-/5-//	Time 6/58	Received by (Signature) Signature)	S. W.	_ <u></u>	Sampl	es returned via	FedEx_X/	IPS_Other_ s Received	Condition	(lab use only)
Relinquisher by (Signature	Date	Time	Refressed or	lab by (Signatur	e)		Date 0.	16.11	Time.	1145	pH Checked	NCF

V



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

Report Summary

Monday June 20, 2011

Report Number: L521517 Samples Received: 06/17/11 Client Project:

Description: Hare Gas Com C 1E

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

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP

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Est 1970

REPORT OF ANALYSIS

June 20,2011

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

Date Received · June 17, 2011
Description : Hare Gas Com C 1E

Sample ID : SOUTH WALL

Collected By : Brad Griffith Collection Date : 06/16/11 11:10

ESC Sample # : L521517-01

Site ID : SOUTH WALL

Project # .

Parameter	Dry Result	Det. Limit	Units	Method	Date	<u>Di</u> l.
Total Solids	79.2		ક	2540G	06/18/11	1
Benzene	BDL	0.0032	mg/kg	8021/8015	06/17/11	5
Toluene	0.033	0.032	mg/kg	8021/8015	06/17/11	5
Ethylbenzene	0.0046	0 0032	mg/kg	8021/8015	06/17/11	5
Total Xvlene	2.9	0.0095	mg/kg	8021/8015	06/17/11	5
TPH (GC/FID) Low Fraction	22.	0.63	mg/kg	GRO	06/17/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	84.7		% Rec.	8021/8015	06/17/11	5
a,a,a-Trifluorotoluene(PID)	91 6		% Rec.	8021/8015	06/17/11	5

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

Note:
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Reported 06/20/11 13:56 Printed: 06/20/11 13:56



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REPORT OF ANALYSIS

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

June 20,2011

ESC Sample # : L521517-02

Date Received : June 17, 2011 Description : Hare Gas Com C 1E

Site ID : SOUTH WALL

Sample ID . SOUTH WALL

Project # :

Collected By : Brad Griffith Collection Date : 06/16/11 11:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	D11.
Total Solids	79.		8	2540G	06/18/11	1
TPH (GC/FID) High Fraction	19.	5.0	mg/kg	3546/DRO	06/19/11	1
Surrogate recovery(%) o-Terphenyl	62 3		% Rec.	3546/DRO	06/19/11	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note
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Reported. 06/20/11 13:56 Printed. 06/20/11 13.56

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L521517-01	WG541021	SAMP	Toluene	R1727970	J5
	WG541021	SAMP	Ethylbenzene	R1727970	J5
	WG541021	SAMP	TPH (GC/FID) Low Fraction	R1727970	J5J3

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrıx interfered with the ability to make any accurate determination; spike value is high

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 Differrence.
- 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 06/20/11 at 13:56:40

TSR Signing Reports: 288 R1 - Rush. Sameday

drywt

Sample: L521517-01 Account: XTORNM Received: 06/17/11 09:00 Due Date: 06/17/11 00:00 RPT Date: 06/20/11 13:56 TS to be transferred from -02 when complete Sample: L521517-02 Account: XTORNM Received: 06/17/11 09:00 Due Date: 06/20/11 00:00 RPT Date: 06/20/11 13:56



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Quality Assurance Report Level II

L521517

June 20, 2011

							-			
Analyte	Result		aboratory B Units	lank % Rec		Limit		Batch	Date	Analyzed
Benzene	< 000		mg/kg	•			•			7/11 16 02
Ethylbenzene	< .000		mg/kg							7/11 16.02
Toluene	< 005		mg/kg							7/11 16:02
TPH (GC/FID) Low Fraction	< .1		mg/kg							7/11 16.02
Total Xylene a,a,a-Trifluorotoluene(FID)	< 001		mg/kg % Rec.	92.91		59-128				7/11 16:02 7/11 16 02
a,a,a-Trifluorotoluene(PID)			* Rec.	95.91		54-144				7/11 16 02
a, a, a lilituolocoldene (Fib)		•	a Rec.	93.92		24-144				
Total Solids	< 1	•	8					WG541115	06/1	3/11 10:36
TPH (GC/FID) High Fraction	< 4	1	ppm					WG541312	06/1	9/11 06·27
o-Terphenyl			% Rec	73 28	····	50-150	 	WG541312	06/1	9/11 06 27
			Duplicat	e						
Analyte	Units	Resul	t Duplı	cate R	PD	Limit		Ref Sam	ıp.	Batch
Total Solids	8	82.0	80.3	2	.40	5		L520323	-02	WG541115
		`Labor	atory Contr	ol Sample						
Analyte	Units		n Val	Resul		% Rec		Limit		Batch
Benzene	mg/kg	.05		0.0487		97.3		76-113		WG541021
Ethylbenzene	mg/kg	05		0 0526		105		78-115		WG541021
Toluene	mg/kg	05		0.0515		103.		76-114		WG541021
Total Xylene	mg/kg	.15		0.157		104		81-118		WG541021
a,a,a-Trifluorotoluene(PID)						93 91		54-144		WG541021
TPH (GC/FID) Low Fraction	_ mg/kg	5.5		6 57		120.		67-135		WG541021
a,a,a-Trifluorotoluene(FID)		1				98 41		59-128		WG541021
Total Solids	8	50		50.0		100		85-155		WG541115
TPH (GC/FID) High Fraction	ppm	60		47.5		79 2		50-150		WG541312
o-Terphenyl						72 31		50-150		WG541312
		Laboratory	Control Sa	mple Dupl	icate.					
Analyte	Units	Result	Ref	%Rec		Limit	RPD	Li	.mıt	Batch
Benzene	mg/kg	0.0474	0.0487	95 0	-	76-113	2.50	20)	WG541021
Ethylbenzene	mg/kg	0.0514	0.0526	103.		78-115	2 31	20	1	WG541021
Toluene	mg/kg	0 0501	0 0515	100.		76-114	2 67	20		WG541021
Total Xylene	mg/kg	0 153	0 157	102.		81-118	2 27	20	1	WG541021
a,a,a-Trifluorotoluene(PID)				100.3		54-144				WG541021
TPH (GC/FID) Low Fraction	mg/kg	6 47	6.57	118		67-135	1.63	20)	WG541021
a,a,a-Trifluorotoluene(FID)				92.14		59-128		•		WG541021
TPH (GC/FID) High Fraction o-Terphenyl	ppm	48.5	47.5	81 0 71 28		50-150 50-150	1 à8	25	5	WG541312 WG541312
Analyte	Units	MS Res	Matrix Spi Ref Res	.ke TV	% Rec	Limit		Ref Samp)	Batch
				0.5	102	22.12	7			WCE 41003
Benzene Ethylbenzene	mg/kg	0.258	0 00360	.05 .05	103. 160 *	32-13		L521517- L521517-		WG541021 WG541021
Ethylbenzene Toluene	mg/kg	0 405 0 659	0 00360 0.0260	.05	253.*	10-15 20-14		L521517-		WG541021 WG541021
Totalene	mg/kg	0 659	0.0260	.05	253.*	20-14	4	727121/-	.01	MO241071

^{*} 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

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

L521517

June 20, 2011

			Matrix S	pike					
Analyte	Units	MS Res	Ref Re	s TV	% Rec	Limit		Ref Samp	Batch
Total Xylene	mg/kg	3.91	2.30	.15	215.*	, 16-14		L521517-01	WG5410:
a,a,a-Trıfluorotoluene(PID)					94.63	54-14			WG54102
TPH (GC/FID) Low Fraction	mg/kg	84 2	17 0	5.5	244 *	55-10		L521517-01	WG5410
a,a,a-Trifluorotoluene(FID)					92.71	59-12	3		WG54102
TPH (GC/FID) High Fraction	mqq	49 4	0	60	82 3	50-15)	L521334-02	WG54131
o-Terphenyl					68 68	50-15)		WG54131
		Mat	rix Spike	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.249	0 258	9 [°] 9 5	32-137	3.79	39	1,521517-01	WG54102
Ethylbenzene	mg/kg	0 331	0.405	131.	10-150	20.1	44	L521517-01	WG54102
Toluene	mg/kg	0 717	0.659	276.*	20-142	8 54	42	L521517-01	WG5410
Total Xylene	mg/kg	3 34	3.91	138.	16-141	15.9	46	L521517-01	WG54102
a,a,a-Trifluorotoluene(PID)				93 35	54-144				WG5410
TPH (GC/FID) Low Fraction	mg/kq	42 6	84.2	93.2	55-109	65 5*	20	L521517-01	WG5410
a,a,a-Trifluorotoluene(FID)				97.52	59-128		•	•	WG5410:
TPH (GC/FID) High Fraction	ppm	45.5	49.4	75 8	50-150	8 20	25	L521334-02	WG5413
o-Terphenyl				66 99	50-150				WG5413

Batch number /Run number / Sample number cross reference

WG541021 · R1727970 · L521517-01 · WG541115 · R1729215 · L521517-01 · 02 WG541312 · R1729770 . L521517-02

 ^{* *} 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

1.521517

June 20, 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 Billing					Ana	lysis/Cor	ntainer/Preser	vative	E054	Chain of Custody
XTO ENERGY, IN 382 County Road 3100 AZTEC, NM 87410	3100 37410 Report to Jan			port to James McDaniel mail to James_mcdaniel@xtoenergy com			The state of the s		The state of the s			12065 Lebai	non Road
Project Description: Hare Gas Com	C 1E				ate Collected							Mt Juliet TN	
PHONE 505-333-3701 FAX.	Client Project	No.		Lab Project#								Phone (615) Phone (800 FAX (61	
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XTO Energy On-Site Form

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Nelson Revegetation On-Site Form OVM Results

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Nelson Revegetation On-Site Form OVM Results

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Nelson Revegetation On-Site Form OVM Results

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