District II
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 Copi District Offi with I

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

						OPERATOR Initial Report Sinal							Report
		TO Energy, l					nes McDaniel						
		00, Aztec, N					No.: (505) 333-3						
Facility Nar	ne: WF Fe	deral 20-3 (3	0-045-30	0114)		Facility Typ	e: Gas Well (Fr	uitland	Coal)				
Surface Ow	ner: Feder	al		Mineral C)wner:				Lease N	lo.:			
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	Vest Line	County	-		
О	20	30N	14W	1200		FSL	1515	F	FEL	San Juan			
	1	. ,		Latitude:	36.795	7 Longitud	e: -108.3288						
				NAT	URE	RE OF RELEASE							
Type of Rele							Release: 8 bbls			Recovered: 4			
Source of Release: Frozen Valve						Date and F February 4	lour of Occurrenc , 2011	e:	Date and February	Hour of Disc 4, 2011	covery	:	
Was Immedi	ate Notice (Yes [No Not R	eauired	If YES, To	Whom?		R	CVD MAR	11'	T Put	
By Whom?						Date and I	I a u m		i	TIL CONS		<u>'. </u>	
Was a Water	course Read	hed?					olume Impacting t	the Wate	rcourse	DIST.			
Was a water	course read		Yes 🗵] No		11 125, 11	name impaeting t	the water					
If a Watercou	ırse was Im	pacted, Descri	be Fully.	*		- L							
On February produced wa feet in the draw topographic and distance of to a distance can, and a from the february background, only. The sp	Describe Cause of Problem and Remedial Action Taken.* On February 4, 2011, a water leak was noticed in the water can at the WF Federal 20-3. The water can filled up and overflowed onto the well pad. The produced water then traveled across a lease road, and into a small drainage feature on the north side of the road. The spill then traveled approximately 335 feet in the drainage feature before coming to an end. The spill ended in the drainage feature approximately 2,700 feet from an unnamed wash on the topographic map. This unnamed wash drains into the Stevens Arroyo after an additional 2,600 feet. The Stevens Arroyo runs to the San Juan River, after a distance of approximately 7.7 miles. This is a distance of over 8.5 miles total to the San Juan River. The NMOCD ranking for this location is a zero due to a distance to a watercourse of over 1,000 feet and a depth to groundwater of over 100 feet. Approximately 4 bbls of water was recovered from the water can, and a frozen valve was replaced inside the water can, repairing the leak. Describe Area Affected and Cleanup Action Taken.* On February 4, 2011, samples were collected from the spill area on the road and in the drainage feature. An additional sample was collected for background. The spill composite samples were analyzed for BTEX and DRO/GRO, as well as chlorides. The background was analyzed for chlorides only. The spill composite samples returned results of non-detect for DRO/GRO and BTEX, but the road composite returned results of 2,100 ppm												
to the NMOC the environm	CD ranking, ent. Analy	and the 8.5 m tical results, ar	ile distand and the spi	returned results o ce to the San Juar Il assessment field	n River, d sheet,	XTO believes are attached f	that these chloric or your reference.	de levels	do not pos	se a threat to	huma	n health	and
regulations a public health should their or the enviro	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
			/,	/			OIL CON	SERV	<u>'ATION</u>	DIVISIO	<u>N</u>		
Signature:													
Printed Name: James McDaniel						Approved by District Supervisor: Bel Fell							
Title: EH&S	Specialist					Approval Da	oval Date: 3-11-11 Expiration Date:						
E-mail Address: James_McDaniel@xtoenergy.com					Conditions of Approval:								
Date: 3/9/2011 Phone: 505-333-3701 NJK 1122140345													



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

Friday February 11, 2011

Report Number: L500919
Samples Received: 02/09/11
Client Project:

Description: WF Federal 20-3

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

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 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

February 11,2011

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

Date Received : Description : February 09, 2011 WF Federal 20-3

Sample ID PRODUCED WATER

Collected By : James McDaniel Collection Date : 02/04/11 14:00

ESC Sample # : L500919-01

Site ID : WF FEDERAL 20-3

Project # :

Parameter	Result	Det Limit	Units	Method	Date	Dıl.
Benzene	0 0065	0.00050	mg/l	8021B	02/09/11	1
Toluene	0 0096	0.0050	mg/l	8021B	02/09/11	1
Ethylbenzene	0.0015	0 00050	mg/l	8021B	02/09/11	1.
Total Xylene	0.0077	0.0015	mg/l	8021B	02/09/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	99.5		% Rec.	8021B	02/09/11	1

BDL - Below Detection Limit Det. Limit - Practical Quantitation $\operatorname{Limit}\left(\operatorname{PQL}\right)$

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported 02/11/11 14:03 Printed: 02/11/11 14:04

Page 2 of 9



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Tax I D. 62-0814289

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REPORT OF ANALYSIS

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410 February 11,2011

Project # ·

Date Received : Description :

February 09, 2011 WF Federal 20-3

ESC Sample # : L500919-02

Sample ID

BACKGROUND

Site ID : WF FEDERAL 20-3

Collected By · James McDaniel Collection Date : 02/04/11 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dıl
Chloride	59.	12.	mg/kg	9056	02/09/11	1
Total Solids	84.		8	2540G ,	02/10/11	1

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

REPORT OF ANALYSIS

February 11,2011

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

ESC Sample # . L500919-03

Date Received · February 09, 2011
Description : WF Federal 20-3

Site ID : WF FEDERAL 20-3

Sample ID : DRAINAGE FEATURE COMP

Project # :

Collected By : James McDaniel Collection Date : 02/04/11 14:00

Parameter	Dry Result	Det Limit	Units	Method	Date	Dil.
Chloride	1500	25.	mg/kg	9056	02/09/11	2
Total Solids	80.		%	2540G	02/11/11	1
Benzene	BDL	0.0031	mg/kg	8021/8015	02/09/11	5
Toluene	BDL	0.031	mg/kg	8021/8015	02/09/11	5
Ethylbenzene	BDL	0.0031	mg/kg	8021/8015	02/09/11	5
Total Xylene	BDL	0.0094	mg/kg	8021/8015	02/09/11	5
TPH (GC/FID) Low Fraction	BDL	0.62	mq/kq	GRO	02/09/11	5
Surrogate Recovery-%			J. J		•	
a,a,a-Trifluorotoluene(FID)	107.		% Rec.	8021/8015	02/09/11	5
a,a,a-Trifluorotoluene(PID)	109.		% Rec.	8021/8015	02/09/11	5
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	5.0	mg/kg	3546/DRO	02/10/11	1
o-Terphenyl	81.5		% Rec.	3546/DRO	02/10/11	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 02/11/11 14:03 Printed: 02/11/11 14:04



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ESC Sample # : L500919-04

REPORT OF ANALYSIS

February 11,2011

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

February 09, 2011 WF Federal 20-3 Date Received :

Description

Sample ID

ROAD COMPOSITE

Collected By . Collection Date :

James McDaniel 02/04/11 14:00

Site ID : WF FEDERAL 20-3

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil
Chloride	2100	26.	mg/kg	9056	02/09/11	2
Total Solids	78.		8	2540G	02/11/11	1
Benzene	BDL	0.0032	mg/kg	8021/8015	02/09/11	5
Toluene	BDL	0.032	mg/kg	8021/8015	02/09/11	5
Ethylbenzene	BDL	0.0032	mq/kq	8021/8015	02/09/11	5
Total Xylene	BDL	0.0097	mg/kg	8021/8015	02/09/11	5
TPH (GC/FID) Low Fraction	BDL	0.64	mg/kg	GRO	02/09/11	5
Surrogate Recovery-%			3. 3			
a,a,a-Trifluorotoluene(FID)	102.		% Rec	8021/8015	02/09/11	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	02/09/11	5
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	5.2	mg/kg	3546/DRO	02/10/11	1
o-Terphenyl	83.0		% Rec.	3546/DRO	02/10/11	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 02/11/11 at 14:04:17

TSR Signing Reports: 288 R3 - Rush. Two Day

No Energy fee. Charge \$10 Shipping Fee per Dave V 1/4/10 When transfering TS to a new dash # DO NOT charge a fee

Sample: L500919-01 Account: XTORNM Received: 02/09/11 08:15 Due Date: 02/11/11 00:00 RPT Date: 02/11/11 14:03
Sample: L500919-02 Account: XTORNM Received: 02/09/11 08:15 Due Date: 02/11/11 00:00 RPT Date: 02/11/11 14:03
Sample: L500919-03 Account: XTORNM Received: 02/09/11 08:15 Due Date: 02/11/11 00:00 RPT Date: 02/11/11 14:03
Sample: L500919-04 Account: XTORNM Received: 02/09/11 08:15 Due Date: 02/11/11 00:00 RPT Date: 02/11/11 14:03



XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

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Quality Assurance Report Level II

L500919

February 11, 2011

_			aborațor							
Analyte	Result		Jnits	% Rec		Limit		Batch	Date An	alyze
Benzene	`< .0005	, , π	ng/kg		*, *		z . + '+	WG520826		1.15:
Ethylbenzene	< 0005		ng/kg	Paul +1 .		mer blaminari	7001 -	WG520826	02/09/1	ı is.
Toluene	< 005		ng/kg					WG520826	02/09/1	1 15:
TPH (GC/FID) Low Fraction ()	< .1		ng/kg	*	v	**	~	WG520826	02/09/1	1 15
Total Xylene	< .0015		ng/kg	-			. ,	WG520826		
a,a,a-Trifluorotoluene (FID)			Rec.	109 7		59-128		WG520826		
a,a,a-Trifluorotoluene(PID)			Rec	112.2		54-144	e.	WG520826		
Benzene	< .0005	π	ng/l					WG520838	02/09/1	1 15
Ethylbenzene - **	< '.0005		ng/l		*			WG520838	02/09/1	1 15:
Toluene	< .005		ng/1					WG520838	02/09/1	1 15
Total Xylene	< 0015		ng/1					WG520838	02/09/1	1 15
a,a,a-Trifluorotoluene(PID)			Rec	100 3		55-122	*****	wG520838		
TPH (GC/FID) High Fraction	< 4	ŗ	pm					WG520782	02/10/1	1 09.
o-Terphenyl ,	•	ę	Rec.	93.46		,50~150	*	WG520782	02/10/1	1 09.
Chloride	< 10	n	ng/kg					WG520793	02/09/1	1 12
					v	÷ ,	-	* 12.		'
Total Solids	< .1	ę	ī					WG520821	02/10/1	1 10
Total Solids	< .1 * *		\$, ,	· ·	* a *	ų J	`WG52097,0	02/11/1	<u>1, 1</u> 2·
			Dupl:	icate '						
Analyte	Units	Result	. Du	uplicate	RPD	Limit		Ref Samp	р В	atch
Total Solids ', ,	36	0.88	83	3.5	0.186	5 _	,	L500919	-02 W	G5208
Total Solids	8	79 0	73	7,5	1.64	5		L500919	-04 W	<u>G5</u> 209
		Labora	atory Co		le					
				ontrol Sambl						
Analyte	Units		ı Val	ontrol Sampl Resu		% Rec		Limit	В	atch
	Units				ılt	% Rec		Limit 76-113		<u>at</u> ch G5208
Benzene	mg/kg	Knowr		Resi	ılt		3		, . w	
Benzene Ethylbenzene	mg/kg mg/kg	Knowr 05 05		0.0523 0.0528	ilt B %	105.	3	* 76-113` 78-115	, . W	 G5208 G5208
Benzene **	mg/kg mg/kg mg/kg	05 05 .05		0.0523 0.0528 0.0535	ilt B %	105. 106 107.	*, *, *	76-113 78-115 76-114	,	G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene	mg/kg mg/kg	Knowr 05 05		0.0523 0.0528	ilt B %	105. 106 106 107.	*, *, *, *, *, *, *, *, *, *, *, *, *, *	76-113- 78-115 76-114 81-118	W W W	G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trıfluorotoluene(PID)	mg/kg mg/kg mg/kg mg/kg	05 05 05 .05 .15		0.0523 0.0533 0.0533	ilt B %	105. 106 107. 107.	*, a, *	76-113- 78-115 76-114 81-118 54-144	, W W W W	G5208 G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction	mg/kg mg/kg mg/kg	05 05 .05		0.0523 0.0528 0.0535	ilt B %	105. 106 107. 107. 107. 107.8	3	76-113- 78-115 76-114 81-118 54-144 67-135	, , , , , , , , , , , , , , , , , , ,	G5208 G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(FID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg mg/kg mg/kg mg/kg	05 05 05 .05 15		0.0523 0.0523 0.0533 0.161	1lt	105. 106 107. 107. 107. 8 102	*, *, *, *	76-113-78-115 76-114 81-118 54-144 67-135 59-128	W W W W W W	G5208 G5208 G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) Benzene	mg/kg mg/kg mg/kg mg/kg mg/kg	05 05 .05 .05 .15		0.0523 0.0523 0.0533 0.161 5.60	alt 3	105. 106 107. 107. 107. 107. 109. 102. 197. 199.	3	76-113-78-115 76-114 81-118 54-144 67-135 59-128 79-114		G5208 G5208 G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) Benzene Ethylbenzene	mg/kg mg/kg mg/kg mg/kg mg/kg	05 05 05 .05 .15 .5.5		0.0521 0.0521 0.0531 0.161 5.60	alt	105. 106 107. 107. 107. 107. 109. 99. 19.		76-113- 78-115 76-114 81-118 54-144 67-135 59-128 79-114 80-116	W W W W W W W W W W W W	G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) Benzene Ethylbenzene Toluene	mg/kg mg/kg mg/kg mg/kg mg/kg	05 05 .05 .05 .15		0.052: 0.052: 0.053: 0.161 5.60 0.049: 0.048: 0.050:	alt	.105. 106 107. 107. 107. 107. 108. 102. 97. 19. 99.0 97. 5. 100.	*	76-113 78-115 76-114 81-118 54-144 67-135 59-128 79-114 80-116 79-112	W W W W W W W W W W W W W W W W W W W	G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) Benzene Ethylbenzene Toluene Total Xylene	mg/kg mg/kg mg/kg mg/kg mg/kg	05 05 05 .05 .15 .5.5		0.0521 0.0521 0.0531 0.161 5.60	alt	105. 106 107. 107. 107. 107. 107. 109. 102. 109. 109. 100. 100. 100.	*, *, *, *, *, *, *, *, *, *, *, *, *, *	76-113-78-115 78-115 76-114 81-118 54-144 67-135 59-128 79-114 80-116 79-112 84-118	W W W W W W W W W W W W W W W W W W W	G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208
Analyte Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID)	mg/kg mg/kg mg/kg mg/kg mg/kg	05 05 05 05 15 5.5 05 05		0.052: 0.052: 0.053: 0.161 5.60 0.049: 0.048: 0.050:	alt	.105. 106 107. 107. 107. 107. 108. 102. 97. 19. 99.0 97. 5. 100.		76-113 78-115 76-114 81-118 54-144 67-135 59-128 79-114 80-116 79-112	W W W W W W W W W W W W W W W W W W W	G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208
Benzene Ethylbenzene Toluene Total Xylene a,a,a-Trifluorotoluene(PID) TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) Benzene Ethylbenzene Toluene Total Xylene	mg/kg mg/kg mg/kg mg/kg mg/kg	05 05 05 05 15 5.5 05 05		0.052: 0.052: 0.053: 0.161 5.60 0.049: 0.048: 0.050:	alt	105. 106 107. 107. 107. 107. 107. 109. 102. 109. 109. 100. 100. 100.		76-113-78-115 78-115 76-114 81-118 54-144 67-135 59-128 79-114 80-116 79-112 84-118	W W W W W W W W W W W W W W W W W W W	G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208 G5208

^{*} 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

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Tax I.D 62-0814289

Est 1970

Quality Assurance Report Level II

L500919

February 11, 2011

nalyte	Units		atory Contr 1 Val	ol Sample Resul		% Rec		Limit	Batch
hloriđể, i jaka i	mg/kg	200		220.		.110;	Lat Grand	85-115 H	, wG520
Cotal Solids	8	50		50.1		100.		85-155	WG520
otal Solids	· `	50		50 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100.	**	85-155	√ WG520
		Laboratory	Control Sa	mole Dupl	ıcate:				
nalyte	Units	Result	Ref	%Rec		Limit	RPD	Limit	Batch
enžene	mg/kg	0.0461	0 0523	92 0		76-113	12 6	20	WG520
thylbenzene `	mg/kg	0.0465	0 0528	93.0		78-115	12 9	20	WG520
oluene	mg/kg	0.0470	0 0535	94 0		76-114	12 9	20	WG520
otal Xylene	mg/kg	0.141 .,	0.161	94.0 .		81-118	13.2	20	WG520
,a,a-Trıfluorotoluene(PID)				109 3		54-144			WG520
PH (GC/FID) Low Fraction	mg/kg	5 41	5 60	98 0		67-135	3.35	20	WG520
,a,a-Trifluorotoluene(FID)			•	97.29		59-128		* ***	_ WG5 ² 2
enzene	mg/l	0.0512	0 0495	102		79-114	3 33	20	WG520
thylbenzene ,	mg/l	0 0500	0 0487	100	•	80-116	2.51	20	WG5,20
oluene	mg/1	0 0506	0 0501	101		79-112	1 00	20	WG520
otal Xylene	mg/l	0 150	0.147	100		84-118	2,19	20	WG520
,a,a-Trifluorotoluene (PID)	, ,			99.57		55-122	* * * * * * * * * * * * * * * * * * *		~ WG520
PH (GC/FID) High Fraction -Terphenyl	ĎĐŵ	52 5	52_9	88 0 88 96	,	50-150 50-150	0 79	7 25	WG520 WG520
hloride	mg/kg	220	220	110		85-115	0	20	WG520
			Matrix Spi	ke-					
nalyte	Units	MS Res	Ref Res	TV	% Rec	Li	mit	Ref Samp	Batch
enzene l	mg/kg	0 281	0	05	112.	32	-137	L500917-01	. WG520
thylbenzene	mg/kg	0 267	0.00390	05	105.	1.0	-150	L500917-01	WG520
pluene	mg/kg	0 288	0	0.5	115	20	-142	L500917-01	WG520
otal Xylene	mg/kg	0.846	0.0370	15	108.	Ĭ.6	-141	L500917-01	WG520
,a,a-Trifluorotoluene(PID)	5. 5	•			96 38	54	-144		WG520
PH (GC/FID) Low Fraction	mg/kg	22 4	5 20	5.5	62 6	55	-109	L500917-01	WG520
,a,a-Trifluorotoluene (FID)		r			109.0	59	-128	, , ,	WG52
enzene	mg/l	0 0527	0	.05	105	35	-147	L500745-05	WG520
thylbenzene	mg/l	0.0525	0	.05	105.	[39	-141	Ĺ500745-05	WG520
oluene "	mg/l	0.0541	0	.05	108.	35	-148	L500745-05	WG520
otal Xylene	mg/l	0 159	0	15	106.	33	-151	L500745-05	WG520
a,a-Trifluorotoluene(PID)		·,	•		. 99 13	, • ,5,5	-122 .	î.,. Îi - v	WG520
PH (GC/FID) High Fraction	ppm	73 3	18.0	60	92 1	50	-150	L500824-08	WG520
-Terphenyl		, a 1º	· · · · · · ·		86.99	", <u>"</u> 50	-150	<u> </u>	WG520
		Matr	ix Spike Du	plicate					
		MSD	Ref %R	lec	Limit	RPD		t Ref Samp	Batch

Benzene mg/kg 0.238 0.281 95 0 32-137 16 9 3
* 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

L500919

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

February 11, 2011

		Ma	trix Spık	e Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Ethylbenzene	mg/kg	0.228	0.267	89.6	10-150	15.9	44	L500917-01	WG5208:
Toluene	mg/kg	0.241	0 288	96 5	20-142	17 8	42	L500917-01	WG5208
Total Xylene	mg/kg	0.715	0.846	90 4	16-141	16 8	46	L500917-01	WG5208:
a,a,a-Trifluorotoluene(PID)	-			96.88	54-144			•	WG5208
TPH (GC/FID) Low Fraction	mg/kg	30 0	22.4	90.1	55-109	28.9*	20	L500917-01	WG5208
a,a,a-Trıfluorotoluene(FID)				105 7	59~128				WG5208:
Benzene	mg/l	0 0484	0.0527	96 8	35-147	8.44	20	L500745-05	WG5208
Ethylbenzene	mg/1	0.0481	0 0525	96.2	39-141	8 69	20	L500745-05	WG52083
Toluene	mg/l	0 0485	0 0541	97.0	35-148	10.9	20	L500745-05	WG52083
Total Xylene	mg/l	0.145	0.159	96.7	33-151	8.97	20	L500745-05	WG5208
a,a,a-Trifluorotoluene(PID)	•			98 65	55-122				WG5208
TPH (GC/FID) High Fraction	ppm	73 3	73.3	92 1	50-150	0 00638	25	L500824-08	WG5207
o-Terphenyl				88.65	50-150				WG52078

Batch number /Run number / Sample number cross reference

WG520826 R1570209: L500919-03 04
WG520838 R1570249 L500919-01 WG520782: R1570609 L500919-03 04
WG520793 R1570709 L500919-02 03 04
WG520821 R1570738. L500919-02
WG520970: R1571780: L500919-03 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

L500919

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

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

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

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

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Tax I D. 62-0814289

Est 1970

February 11, 2011

Samuel Brown

v 0

Company Name/Address			Alternate Bi	ling				Analy	ysis/C	ontain	er/Prese	rvative	E246	Chain of Custody
XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410			XTORNM	031810S			JoH Act		.c. (Prepared by: ENVIRON Science con	
			Report to Jam	es McDaniel es_McDaniel@x	toenergy com		100/	00)	00 1/	٠	1		12065 Leba	non Road
PHONE: 505-333-3701 FAX Collected by James McDaniel Collected by(signature)	Rush? (L		20'-3 Notified) 100% .50%	PO# Date Result Paril?N PAX2N	/// o_X_Yes	No of	FX(5021) /1-402,	EX(8021)/1-402/	0/6 RO(BOIS) /1-4	lorides	3		CoCode XTORNM Template/Prelogin	0) 767-5859 15)758-5859 (lab use only)
Sample ID Produced Water	Comp/Grab	Niatrix V	Depth	Date 2/4/1/	Time 1400	Ontrs	X	187	DRC	Ch	, f ov	2 mm 2	Shipped Via: Fed Ex. Remarks/contaminant SAME DAY	
Drainage Feature Comp	1 🖫 🚶	55 55		2/4/11	1500 1505	1		WILL X	X	X				07 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Koad Composite	Conp	22		~/4/II	750		, a	~	787					
							*		IN 3					
Matrix: SS-Soil/Solid GW-Groundwa	iter WW -Wa	astewater D	W-Drinking V	Vater OT-Of	her_ <i>VQ</i>	ifc.						pH	Temp Other	
elinquisher by (Signature Date Time Received by (Signature Date Time Received by (Signature Date Time Received for its						Samples returned via FedEx_X_UPS_Other_ H3419802 / 59 Temp Bottles Received			eceived	Condition (lab use only)				
elinquisher by (Signature Date Time					Date, 7/9/1/ 0.7/5			K. 3%	pH Checked NCF					

X)
E	N	E	R	G	Y

XTO Energy On-Site Form

Z ENERGI		_		
Well Name_WF_	Federal E	20-3 api#	<u> 30 -0</u>	45-30114
Section 200	Township 300 Ra	ange $4 $ Cou	_{nty} <u>San</u>	Juan
Contractors On-Site	Jone (4 recovered) bbls Spilled (Oil / Pro	Time On-Site(<u>515</u> Time	e Off-Site_/Ssc
Spill Amount	(4 recovered)bbls Spilled (Oil/Pro	oduced Water / Other)
	Residential / Tribe			
N e e s		Water can	Sample Loc	(P)
- No steen 1	neficed, limite	coal fins,		(()
Comments in a	neticed/limite roon odor, spill small drainage	transled 335	Number of F	Photos Taken
Samples	,			
Time Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
- NA	100 Standard	NA		NA
1:315 1	Water Sample	Clear, no shen		BTEX
2	RNAC COMPOSITE	Wet Brown, Sandy		BTEX, TPH, Chloride
3	Drainage Feature Comp			BTEX TPH Chloric's
4	Background	Dry Brown Sandy	_	Chlorides
		710		· ·
Name (Print) Jan	nes McDaniel		Date $\frac{\partial}{\partial x}$	1/11
Name (Signature)	// (Jai)	Company>	KTO	· · · · · · · · · · · · · · · · · · ·