# 2RP-3873 **REMEDIATION PLAN** Nash Draw Tank Battery #10

Eddy County, New Mexico

LAI Project No. 16-0108-02

November 2, 2016

Prepared for:

XTO Energy, Inc. 500 W. Illinois Ave., Suite 100 Midland, Texas 79707

Prepared by:

Larson & Associates, Inc. 507 North Marienfeld Street, Suite 205 Midland, Texas 79701

Mark J. Larson, P.G.

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#### 1.0 INTRODUCTION

This document is prepared by Larson & Associates, Inc. (LAI) on behalf of XTO Energy, Inc. (XTO) for submittal to the New Mexico Oil Conservation Division (OCD) District 2 and U.S. Bureau of Land Management (BLM) to present the investigation results and remediation plan for contamination at the Nash Draw Unit tank battery #10 (Site). XTO consolidated production from several tank batteries into a three (3) tank batteries therefore the tank battery is no longer needed and is being remediated. Equipment was removed from the Site in early 2016 to allow for the soil investigation and remediation. On September 7, 2016, XTO submitted the initial C-141 to OCD District 2 and the Site was assigned remediation permit number 2RP-3873. The Site is located in Unit G (SW/4, NE/4), Section 13, Township 23 South, Range 29 East in Eddy County, New Mexico. The geodetic position is North 33.307222° and West -103.935556°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

#### 1.1 Setting

The setting is as follows:

- Elevation is approximately 3,000 feet above mean sea level (AMSL);
- Topography slopes toward the south-southeast;
- The nearest surface water feature is a playa lake (Salt Lake) located about ½ mile west of the Site;
- Surface geology is comprised of unconsolidated Holocene to mid- Pleistocene-age eolian and piedmont-slope deposits that are approximately 80 feet thick according to a log from a nearby well;
- The Triassic-age Chinle formation of the Dockum group underlies the unconsolidated deposits and is comprised of interbedded sand, clay, and mudstone;
- According to New Mexico Office of the State Engineer (NMOSE) records a well is located about 1.25 miles south in Unit J, Section 24, Township 23 South, Range 29 East, with groundwater reported at about 54 feet below ground surface (bgs).

#### 1.2 Remediation Action Levels

Remediation action levels (RRAL) were calculated for benzene, BTEX and TPH based on the following criteria established by the New Mexico Oil Conservation Division (OCD) in "Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993":

Criteria	Result	Score
Depth-to-Groundwater	50 - 99 feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0

The following RRAL apply to the release for ranking score:

10

Benzene

10 mg/Kg

BTEX

50 mg/Kg

TPH 1,000 mg/Kg

#### 1.3 Investigation Soil Samples

Investigation soil samples were collected on June 20, 2016. LAI personnel used a Terraprobe direct-push rig to collect soil samples at four (4) locations (DP-02-01 through DP-02-04) between ground surface and approximately four (4) feet bgs. A background sample (DP-02-BG) was collected at about 1 foot bgs about 100 feet west of the Site. Additional samples were collected with a backhoe (September 29, 2016) and air rotary rig with jam tube sampler (October 10, 2016) to define the vertical extent of impact. The samples were tested for headspace vapors with a calibrated photoionization detector (PID) and all were less than 100 parts per million (ppm). Permian Basin Environmental Lab (PBEL) located in Midland, Texas, analyzed the samples for total petroleum hydrocarbons (TPH) including gasoline (GRO), diesel (DRO) and oil (ORO) range organics by EPA SW-846 Method 8015 and chloride by method 300. The background sample was analyzed for chloride. Table 1 presents the investigation sample laboratory analytical data summary. Figure 3 presents a Site drawing and sample locations. Appendix A presents the laboratory reports.

Referring to Table 1, the RRAL for TPH was exceeded in samples from locations DP-02-01 and DP-02-02. Chloride was delineated to less than 250 milligrams per kilogram (mg/Kg) in boring DP-02-02 at 10.5 feet bgs (119 mg/Kg). The background chloride concentration is 37.6 mg/Kg.

#### 2.0 REMEDIATION PLAN

XTO proposes to excavate soil from the area approximately  $10 \times 20$  feet based on field observations, around DP-02-01 to approximately 1 foot bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavation will be filled to surface with clean soil.

Soil will be excavated from the area approximately 20 x 25 feet based on field observation, around DP-02-02 to about 17 feet bgs. Samples will be collected from the excavation sidewalls for laboratory analysis (BTEX and TPH) to determine if concentrations are below the RRAL. Additional soil will be removed as necessary to achieve the RRAL. The excavation will be filled to surface with clean soil.

Contaminated soil will be disposed at and clean soil acquired from Lea Land Landfill, LLC. The surface will be restored to BLM requirements following remediation. A final report will be submitted to OCD District 2 and BLM upon completion of remediation. Figure 4 presents the approximate locations for the remediation areas. Appendix B presents the initial C-141.

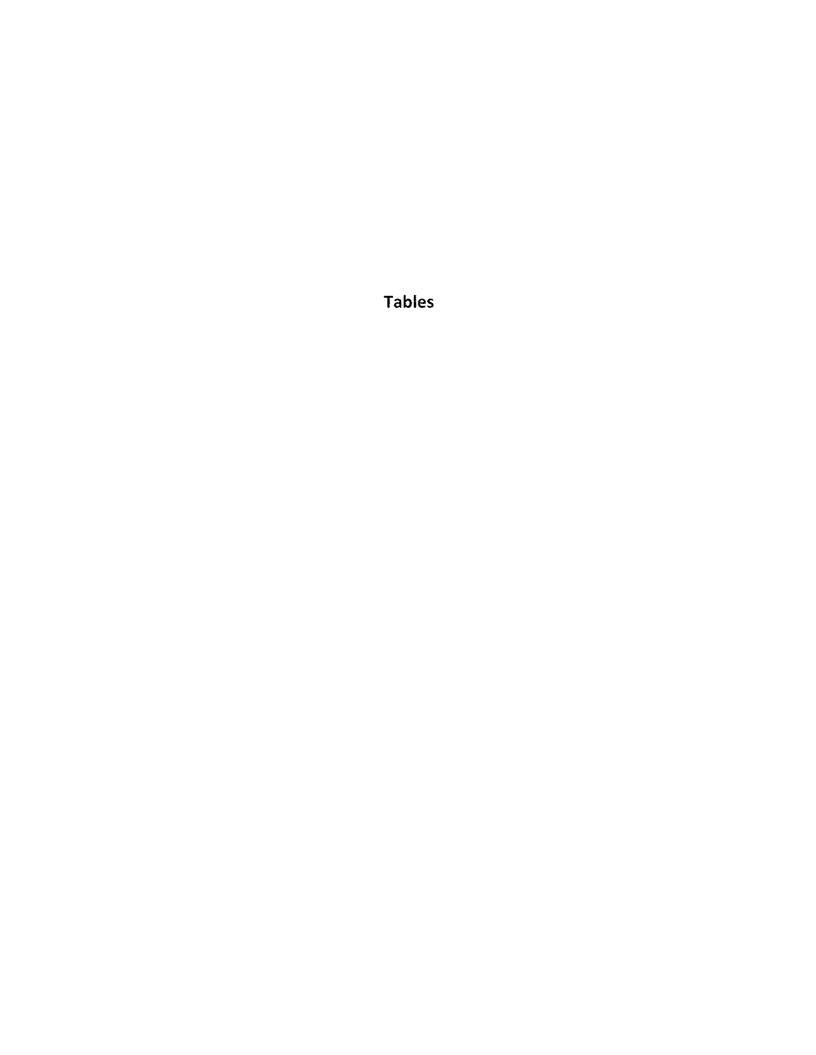


Table 1

2RP-3873

Investigation Soil Sample Analytical Data Summary XTO Energy, Inc., Nash Draw Tank Battery 10 Unit G (SW/4, NE/4), Section 13, Township 23 South, Range 29 East

Eddy County, New Mexico N32.307222° W-103.935556°

Oblanta	(mg/Kg)		37.6	19.4	1	1	ı	457	2,220	13,600	6,150	119	ı	ı	I	36.5	ı	ł	1
	(mg/Kg)	1,000	<26.3	6,007	62.9	43.3	34.6	8,456	3,350	4,520	3,310	2,090	1,121.9	285.8	1	53	1	l	1
100 000	>C28 - C35 (mg/Kg)		<26.3	793	<28.7	<30.1	<26.9	1,201	327	556	372	179	74.9	36.6	1	<26.6	1	I	1
000 000	>CI2 - C28 (mg/Kg)		<26.3	4,780	62.9	43.3	34.6	6,430	2,450	2,890	1,970	1,070	739	210	I	53	I	ŀ	1
000 000	Cb - C12 (mg/Kg)		<26.3	434	<28.7	<30.1	<26.9	825	570	1,080	964	838	308	39.2	I	<26.6	ı	1	ſ
j	Status		In-Situ	In-Situ	In-Situ	In-Situ	In-Situ	In-Situ	In-Situ										
	Collection		6/20/2016	6/20/2016	9/28/2016	9/28/2016	9/28/2016	6/20/2016	6/20/2016	9/28/2016	9/28/2016	9/28/2016	10/19/2016	10/19/2016	10/19/2016	6/20/2016	6/20/2016	6/20/2016	6/20/2016
	Depth (Feet)		0 - 1	0 - 1	4	8	10	0 - 1	1-2	4	8	10.5	15	20	25	0-1	1-2	2-3	3 - 4
	Location	OCD RRAL:	DP-02-BG	DP-02-01				DP-02-02								DP-02-03			

Investigation Soil Sample Analytical Data Summary XTO Energy, Inc., Nash Draw Tank Battery 10 2RP-3873 Table 1

N32.307222° W-103.935556° Eddy County, New Mexico

Unit G (SW/4, NE/4), Section 13, Township 23 South, Range 29 East

Location	Depth	Collection	Status		>C12 - C28 >C28 - C35	>C28 - C35	НАТ	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:							1,000	
DP-02-04	0 - 1	6/20/2016	In-Situ	<26.6	<26.6	<26.6	<26.6	68.9
	1-2	6/20/2016	In-Situ	1	1	1	1	;
	2 - 3	6/20/2016	In-Situ	ı	ı	ı	I	1
	3 - 4	6/20/2016	In-Situ	1	1	1	ı	:

Notes: laboratory analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 method 8015M (TPH) and 300.0 (chloride) Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm) RRAL: Remediation action level calculated from OCD guidence document (August 13, 1993)

P: analysis pending

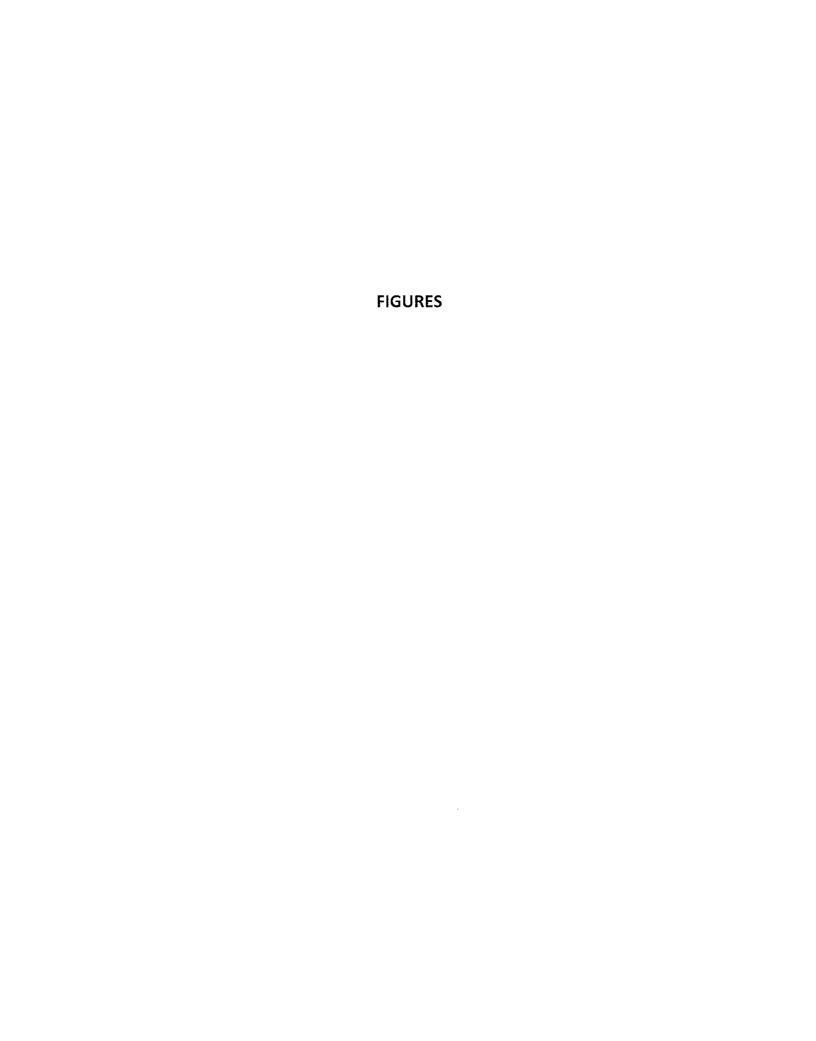


Figure 1 - Topographic Map

Figure 2 - Aerial Map

Figure 3 - Site Map Showing Soil Sample Locations

Figure 4 - Site Map Showing Soil Sample Locations and Proposed Excavation Areas and Depth

# APPENDIX A Laboratory Reports

# PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



# Analytical Report

### **Prepared for:**

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO Nash Draw Site 2
Project Number: 16-0108-02
Location: New Mexico

Lab Order Number: 6F26003



NELAP/TCEQ # T104704156-13-3

Report Date: 07/20/16

Project: XTO Nash Draw Site 2

P.O. Box 50685

Midland TX, 79710

Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-02-01 (0-1)	6F26003-01	Soil	06/20/16 14:10	06-24-2016 16:30
SP-02-02 (0-1)	6F26003-02	Soil	06/20/16 14:35	06-24-2016 16:30
SP-02-02 (1-2)	6F26003-03	Soil	06/20/16 14:35	06-24-2016 16:30
SP-02-03 (0-1)	6F26003-04	Soil	06/20/16 14:40	06-24-2016 16:30
SP-02-04 (0-1)	6F26003-08	Soil	06/20/16 14:50	06-24-2016 16:30
SP-02-BG (0-1)	6F26003-12	Soil	06/20/16 15:00	06-24-2016 16:30

Project: XTO Nash Draw Site 2

P.O. Box 50685

Midland TX, 79710

Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

# SP-02-01 (0-1) 6F26003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
					·		-		
	Pern	nian Basin I	Environmer	tal Lab,	L.P.				
General Chemistry Parameters by EP	A / Standard Method	ls							
Chloride	19.4	1.12	mg/kg dry	1	P6F2802	06/27/16	06/27/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	434	140	mg/kg dry	5	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C12-C28	4780	140	mg∕kg dry	5	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C28-C35	793	140	mg/kg dry	5	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	6010	140	mg/kg dry	5	[CALC]	06/26/16	06/27/16	calc	

Project: XTO Nash Draw Site 2

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710

Project Number: 16-0108-02 Project Manager: Mark Larson

> SP-02-02 (0-1) 6F26003-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Invironmer	ıtal Lab, l	L.P.				
General Chemistry Parameters by EP	A/Standard Methods	<b>s</b>							
Chloride	457	1.14	mg/kg dry	1	P6F2802	06/27/16	06/27/16	EPA 300.0	
% Moisture	12.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	5M							
C6-C12	825	142	mg/kg dry	5	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C12-C28	6430	142	mg∕kg dry	5	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C28-C35	1210	142	mg/kg dry	5	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	,,
Surrogate: o-Terphenyl		108 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8470	142	mg/kg dry	5	[CALC]	06/26/16	06/27/16	calc	

P.O. Box 50685

Midland TX, 79710

Project: XTO Nash Draw Site 2

Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

SP-02-02 (1-2) 6F26003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	ian Basin F	Invironmer	ital Lab,	L.P.				
General Chemistry Parameters by EP	A / Standard Method	<u>s</u>							
Chloride	2220	11.2	mg/kg dry	10	P6G2009	07/20/16	07/20/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	570	28.1	mg/kg dry	1	P6G0602	07/01/16	07/02/16	TPH 8015M	
>C12-C28	2450	28.1	mg/kg dry	1	P6G0602	07/01/16	07/02/16	TPH 8015M	
>C28-C35	327	28.1	mg∕kg dry	i	P6G0602	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		90.2 %	70-1	30	P6G0602	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-1	30	P6G0602	07/01/16	07/02/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3350	28.1	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc	

Project: XTO Nash Draw Site 2

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02

Fax: (432) 687-0456

Project Manager: Mark Larson

SP-02-03 (0-1) 6F26003-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmer	ital Lab, I	L. <b>P</b> .				
General Chemistry Parameters by EP.	A / Standard Method	S							
Chloride	36.5	5.32	mg/kg dry	5	P6F2802	06/27/16	06/27/16	EPA 300.0	
% Moisture	6.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	ND	26.6	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C12-C28	53.0	26.6	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C28-C35	ND	26.6	mg∕kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		90.3 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	53.0	26.6	mg/kg dry	1	{CALC}	06/26/16	06/27/16	calc	

Project: XTO Nash Draw Site 2

P.O. Box 50685

Project Number: 16-0108-02

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

### SP-02-04 (0-1) 6F26003-08 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin I	Invironmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA/	Standard Method	s							
Chloride	68.9	10.6	mg/kg dry	10	P6F2802	06/27/16	06/27/16	EPA 300.0	
% Moisture	6.0	0.1	%	I	P6F2901	06/29/16	06/29/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 l	oy EPA Method 80	15M							
C6-C12	ND	26.6	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.9 %	70-13	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-13	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	ì	[CALC]	06/26/16	06/27/16	calc	

Project: XTO Nash Draw Site 2

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

SP-02-BG (0-1) 6F26003-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin I	Invironmen	ıtal Lab, l	L.P.				
General Chemistry Parameters by EPA/	Standard Method	s							
Chloride	37.6	5.26	mg/kg dry	5	P6F2802	06/27/16	06/28/16	EPA 300.0	
% Moisture	5.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane	***************************************	78.7 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		95.0 %	70-1	30	P6F2906	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	ı	[CALC]	06/26/16	06/27/16	calc	

Project: XTO Nash Draw Site 2

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710

Project Number: 16-0108-02 Project Manager: Mark Larson

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F2802 - *** DEFAULT PREP ***										
Blank (P6F2802-BLK1)				Prepared &	k Analyzed:	06/27/16				
Chloride	ND	1.00	mg∕kg wet							
LCS (P6F2802-BS1)				Prepared &	k Analyzed:	06/27/16				
Chloride	175	1.00	mg/kg wet	200		87.6	80-120			
LCS Dup (P6F2802-BSD1)				Prepared &	& Analyzed:	06/27/16				
Chloride	173	1.00	mg/kg wet	200	·····	86.6	80-120	1.13	20	
Duplicate (P6F2802-DUP1)	Sou	rce: 6F26002	-01	Prepared 8	k Analyzed:	06/27/16				
Chloride	162	1.03	mg/kg dry		165			1.53	20	
Duplicate (P6F2802-DUP2)	Sou	rce: 6F26003	-08	Prepared 8	& Analyzed:	06/27/16				
Chloride	70.9	10.6	mg/kg dry		68.9			2.74	20	
Matrix Spike (P6F2802-MS1)	Sou	rce: 6F26004	-18	Prepared: (	06/27/16 A	nalyzed: 06	5/28/16			
Chloride	204	5.21	mg/kg dry	208	59.4	69.5	80-120			QM-(
Batch P6F2901 - *** DEFAULT PREP ***										
Blank (P6F2901-BLK1)				Prepared &	k Analyzed:	06/29/16				
% Moisture	ND	0.1	%							
Duplicate (P6F2901-DUP1)	Sou	rce: 6F26010	-37	Prepared &	k Analyzed:	06/29/16				
% Moisture	3.0	0.1	%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3.0			0.00	20	
Duplicate (P6F2901-DUP2)	Sou	rce: 6F26008	3-08	Prepared &	& Analyzed:	06/29/16				
% Moisture	11.0	0.1	%	<del>.</del>	12.0		***************************************	8.70	20	

Larson & Associates, Inc. Project: XTO Nash Draw Site 2 Fax: (432) 687-0456

P.O. Box 50685 Project Number: 16-0108-02 Midland TX, 79710 Project Manager: Mark Larson

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

	D 1	Reporting	11.4	Spike	Source	0/ D F: <	%REC	DDD	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F2901 - *** DEFAULT PREP ***										
Duplicate (P6F2901-DUP3)	Sou	rce: 6F26008-	12	Prepared &	Analyzed:	06/29/16				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Batch P6G0501 - *** DEFAULT PREP ***										
Blank (P6G0501-BLK1)				Prepared &	: Analyzed:	07/05/16				
% Moisture	ND	0.1	%							
Duplicate (P6G0501-DUP1)	Sou	rce: 6F26006-	06	Prepared &	. Analyzed:	07/05/16				
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P6G0501-DUP2)	Sou	rce: 6F26009-	23	Prepared &	: Analyzed:	07/05/16				
% Moisture	14.0	0.1	%		17.0			19.4	20	
Duplicate (P6G0501-DUP3)	Sou	rce: 6G01003-	01	Prepared &	: Analyzed:	07/05/16				
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P6G0501-DUP4)	Sou	rce: 6G01008-	02	Prepared &	Analyzed:	07/05/16				
% Moisture	13.0	0.1	%		12.0			8.00	20	

Project: XTO Nash Draw Site 2

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02

Fax: (432) 687-0456

Project Manager: Mark Larson

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

4		Reporting	,	Spike	Source	a	%REC	p.s.e	RPD	**
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F2906 - TX 1005										
Blank (P6F2906-BLK1)				Prepared &	Analyzed:	06/26/16				
C6-C12	ND	25.0	mg/kg wci							
>C12-C28	ND	25.0	•							
>C28-C35	ND	25.0	ø							
Surrogate: I-Chlorooctane	85.5		н	100		85.5	70-130			
Surrogate: o-Terphenyl	45.4		н	50.0		90.8	70-130			
LCS (P6F2906-BS1)				Prepared &	. Analyzed:	06/26/16				
C6-C12	933	25.0	mg/kg wet	1000		93.3	75-125			
>C12-C28	1050	25.0	н	1000		105	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130			
LCS Dup (P6F2906-BSD1)				Prepared &	Analyzed:	06/26/16				
C6-C12	969	25.0	mg/kg wet	1000		96.9	75-125	3.77	20	
>C12-C28	1120	25.0	п	1000		112	75-125	6.43	20	
Surrogate: I-Chlorooctane	122		u	100		122	70-130			
Surrogate: o-Terphenyl	52.0		"	50.0		104	70-130			
Matrix Spike (P6F2906-MS1)	Sou	rce: 6F26004	-18	Prepared: 0	06/26/16 A	nalyzed: 06	5/27/16			
C6-C12	957	26.0	mg/kg dry	1040	ND	91.9	75-125			
>C12-C28	1190	26.0	n	1040	25.6	111	75-125			
Surrogate: 1-Chlorooctane	123		"	104	,	118	70-130			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Surrogate: o-Terphenyl	67.4		"	52.1		129	70-130			
Matrix Spike Dup (P6F2906-MSD1)	Sou	rce: 6F26004	-18	Prepared: (	36/26/16 A	nalyzed: 06	5/27/16			
C6-C12	965	26.0	mg/kg dry	1040	ND	92.6	75-125	0.817	20	
>C12-C28	1180	26.0	11	1040	25.6	111	75-125	0.157	20	
Surrogate: 1-Chlorooctane	126		n	104		121	70-130			
Surrogate: o-Terphenyl	67.4		"	52.1		129	70-130			

Project: XTO Nash Draw Site 2

P.O. Box 50685 Midland TX, 79710

Project Number: 16-0108-02 Project Manager: Mark Larson

Fax: (432) 687-0456

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0602 - TX 1005								***************************************		
Blank (P6G0602-BLK1)				Prepared &	: Analyzed:	07/01/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	u							
Surrogate: 1-Chlorooctane	86.4		ı,	100		86.4	70-130		,.,.	
Surrogate: o-Terphenyl	48.3		"	50.0		96.6	70-130			
LCS (P6G0602-BS1)				Prepared &	k Analyzed:	07/01/16				
C6-C12	817	25.0	mg/kg wet	1000		81.7	75-125			
>C12-C28	986	25.0	IF	1000		98.6	75-125			
Surrogate: 1-Chlorooctane	104		В	100		104	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		93.1	70-130			
LCS Dup (P6G0602-BSD1)				Prepared &	k Analyzed:	07/01/16		A		
C6-C12	923	25.0	mg/kg wet	1000		92.3	75-125	12.2	20	
>C12-C28	1100	25.0	ы	1000		110	75-125	10.7	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130		.,	
Surrogate: o-Terphenyl	57.3		"	50.0		115	70-130			

1400 Rankin HWY Midland, TX 79701 432-686-7235

Project: XTO Nash Draw Site 2

P.O. Box 50685 Midland TX, 79710

Dup

Duplicate

Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

#### Notes and Definitions

)M-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR.	Not Reported
lry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
.cs	Laboratory Control Spike
AS	Matrix Spike

	Karnt Lancon		
Report Approved By:	: ""	_ Date:	7/20/2016

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

RELINQUISHED BY:(Signature) (0/24) (0/24) (0/24)		RELINQUISHED BY:(Magnature) DATE/TIME	TV1.01		TO A CONTRACT OF THE CONTRACT		pp-02-84 (0-1) - 12 3:00	,	,			(3-4) -07			(1-2)	(0-1) -02	99-02-01 (0-1) - 0 ( 6-20·16 2:10 S	TIME ZONE: Time zone/State:    C   C   C   C   C	S=SOIL W=WATER	A GISON & SSOCIATES, INC. Environmental Consultants  Data Reported to:
D May Son May	RECE																\$ 44 -	# of Containers  HCI  HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH  ICE  UNPRESERVED	PRESERVATION	507 N. Marienfeld, Ste. 200 Midland, TX 79701 432-687-0901
<u> </u>		TURN AROUND TIME					₩ ₩				8			8		8		\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ζ <u>Λ</u> .\ \	JII
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# PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



# Analytical Report

# **Prepared for:**

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO Nash Draw Site #10
Project Number: 16-0108-02
Location: New Mexico

Lab Order Number: 6I30003



NELAP/TCEQ # T104704156-16-6

Report Date: 11/04/16

Project: XTO Nash Draw Site #10

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-02-01, 4'	6130003-02	Soil	09/28/16 13:49	09-30-2016 08:30
DP-02-01, 8'	6130003-04	Soil	09/28/16 13:56	09-30-2016 08:30
DP-02-01, 10'	6130003-05	Soil	09/28/16 14:01	09-30-2016 08:30
DP-02-02, 4'	6130003-06	Soil	09/28/16 12:50	09-30-2016 08:30
DP-02-02, 8'	6130003-08	Soil	09/28/16 13:00	09-30-2016 08:30
DP-02-02, 10.5'	6130003-10	Soil	09/28/16 13:25	09-30-2016 08:30

Project: XTO Nash Draw Site #10

P.O. Box 50685

Project Number: 16-0108-02

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

# DP-02-01, 4' 6I30003-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmen	ıtal Lab, l	L.P.				
General Chemistry Parameters by EPA	/ Standard Method	s							
% Moisture	13.0	0.1	%	1	P6J0304	10/03/16	10/03/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	28.7	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
>C12-C28	62.9	28.7	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		94.2 %	70-1	30	P6J0401	09/30/16	10/03/16	TPH 8015M	
Surrogate: o-Terphenyl		98.5 %	70-1	30	P6J0401	09/30/16	10/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	62.9	28.7	mg/kg dry	1	[CALC]	09/30/16	10/03/16	çale	

Project: XTO Nash Draw Site #10

P.O. Box 50685

Project Number: 16-0108-02

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

### DP-02-01, 8' 6I30003-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perm	ian Basin E	invironment	al Lab, l	L.P.				
General Chemistry Parameters by EPA /	Standard Method	3							
% Moisture	17.0	0.1	%	1	P6J0304	10/03/16	10/03/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	15M							
C6-C12	ND	30.1	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
>C12-C28	43.3	30.1	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		128 %	70-130	)	P6J0401	09/30/16	10/03/16	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130	)	P6J0401	09/30/16	10/03/16	TPH 8015M	S-G
Total Petroleum Hydrocarbon C6-C35	43.3	30.1	mg/kg dry	1	[CALC]	09/30/16	10/03/16	cale	

Project: XTO Nash Draw Site #10

P.O. Box 50685

C6-C35

Project Number: 16-0108-02

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

# DP-02-01, 10' 6130003-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environment	al Lab, l	L.P.				
General Chemistry Parameters by EPA	/ Standard Method	s						,,,	
% Moisture	7.0	0.1	%	l	P6J0304	10/03/16	10/03/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 801	15M							
C6-C12	ND	26.9	mg/kg dry	i	P6J0401	09/30/16	10/03/16	TPH 8015M	
>C12-C28	34.6	26.9	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P6J0401	09/30/16	10/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		83.4 %	70-130	)	P6J0401	09/30/16	10/03/16	TPH 8015M	
Surrogate: o-Terphenyl		91.8 %	70-130	)	P6J0401	09/30/16	10/03/16	TPH 8015M	
Total Petroleum Hydrocarbon	34.6	26.9	mg/kg dry	1	[CALC]	09/30/16	10/03/16	calc	

P.O. Box 50685 Midland TX, 79710 Project: XTO Nash Draw Site #10

Fax: (432) 687-0456

Project Number: 16-0108-02 Project Manager: Mark Larson

> DP-02-02, 4' 6I30003-06 (Soil)

	P. 14	Reporting	£ 7 . °a .	7511 - 41	Darah	Danaga	Analyzad	Method	Note				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	ivicinou	1900				
	Perm	ian Basin E	Environmer	ntal Lab, l	L.P.								
General Chemistry Parameters by EPA	/ Standard Method	s											
Chloride	13600	57.5	mg/kg dry	50	P6J0305	10/03/16	10/03/16	EPA 300.0					
% Moisture	13.0	0.1	%	1	P6J0304	10/03/16	10/03/16	% calculation					
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M											
C6-C12	1080	144	mg/kg dry	5	P6J0401	09/30/16	10/03/16	TPH 8015M					
>C12-C28	2890	144	mg/kg dry	5	P6J0401	09/30/16	10/03/16	TPH 8015M					
>C28-C35	556	144	mg/kg dry	5	P6J0401	09/30/16	10/03/16	TPH 8015M					
Surrogate: 1-Chlorooctane		93.1 %	70-1	30	P6J0401	09/30/16	10/03/16	TPH 8015M					
Surrogate: o-Terphenyl		94.3 %	70-1	30	P6J0401	09/30/16	10/03/16	TPH 8015M					
Total Petroleum Hydrocarbon C6-C35	4520	144	mg/kg dry	5	[CALC]	09/30/16	10/03/16	calc					

Project: XTO Nash Draw Site #10

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

DP-02-02, 8' 6130003-08 (Soil)

l Amelian	75 L	Reporting		<b></b>								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note			
	Perm	ian Basin I	Environme	ıtal Lab, l	L. <b>P.</b>							
General Chemistry Parameters by EPA	A / Standard Method	<u>s</u>										
Chloride	6150	55.6	mg∕kg dry	50	P6J0305	10/03/16	10/03/16	EPA 300.0				
% Moisture	10.0	0.1	%	1	P6J0304	10/03/16	10/03/16	% calculation				
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M										
C6-C12	964	139	mg/kg dry	5	P6J0401	09/30/16	10/03/16	TPH 8015M				
>C12-C28	1970	139	mg/kg dry	5	P6J0401	09/30/16	10/03/16	TPH 8015M				
>C28-C35	372	139	mg/kg dry	5	P6J0401	09/30/16	10/03/16	TPH 8015M				
Surrogate: 1-Chlorooctane		112 %	70-1	30	P6J0401	09/30/16	10/03/16	TPH 8015M				
Surrogate: o-Terphenyl		100 %	70-1	30	P6J0401	09/30/16	10/03/16	TPH 8015M				
Total Petroleum Hydrocarbon C6-C35	3310	139	mg/kg dry	5	[CALC]	09/30/16	10/03/16	cale				

Larson & Associates, Inc.

Project: XTO Nash Draw Site #10

Fax: (432) 687-0456

P.O. Box 50685 Project Number: 16-0108-02 Midland TX, 79710 Project Manager: Mark Larson

DP-02-02, 10.5' 6I30003-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
7.111.7.10	2743411	Cunx	CIMIS .	Ditation.					
	Pern	nian Basin F	Invironmer	ital Lab, l	L.P.				
General Chemistry Parameters by EP	A / Standard Method	s		.,					
Chloride	119	5.49	mg/kg dry	5	P6J0305	10/03/16	10/03/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6J0304	10/03/16	10/03/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	838	27.5	mg/kg dry	1	P6J0403	09/30/16	10/04/16	TPH 8015M	
>C12-C28	1070	27.5	mg/kg dry	1	P6J0403	09/30/16	10/04/16	TPH 8015M	
>C28-C35	179	27.5	mg/kg dry	1	P6J0403	09/30/16	10/04/16	TPH 8015M	
Surrogate: 1-Chlorooctane		81.2 %	70-130		P6J0403	09/30/16	10/04/16	TPH 8015M	
Surrogate: o-Terphenyl		80.2 %	70-1	30	P6J0403	09/30/16	10/04/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2090	27.5	mg/kg dry	1	[CALC]	09/30/16	10/04/16	calc	

Project: XTO Nash Draw Site #10

P.O. Box 50685

Fax: (432) 687-0456

Project Number: 16-0108-02 Midland TX, 79710 Project Manager: Mark Larson

### General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
-	Noun	1,711111	Omis	20101	100011		2			
Batch P6J0304 - *** DEFAULT PREP ***										
Blank (P6J0304-BLK1)				Prepared &	Analyzed:	10/03/16				
% Moisture	ND	0.1	%							
Duplicate (P6J0304-DUP1)	Sou	rce: 6130004-	04	Prepared &	Analyzed:	10/03/16				
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P6J0304-DUP2)	Sou	rce: 6I30006-	03	Prepared &	Analyzed:	10/03/16				.,
% Moisture	16.0	0.1	%		17.0			6.06	20	
Batch P6J0305 - *** DEFAULT PREP ***										
Blank (P6J0305-BLK1)				Prepared &	Analyzed:	10/03/16			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Chloride	ND	1.00	mg/kg wet							
LCS (P6J0305-BS1)				Prepared &	λ Analyzed:	10/03/16				
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P6J0305-BSD1)				Prepared &	k Analyzed:	10/03/16				
Chloride	411	1.00	mg/kg wet	400		103	80-120	0.0341	20	
Duplicate (P6J0305-DUP1)	Sou	rce: 6J02004-	01	Prepared &	k Analyzed:	10/03/16				
Chloride	ND	1.01	mg/kg dry		ND				20	
Duplicate (P6J0305-DUP2)	Sou	rce: 6130003-	07	Prepared &	& Analyzed:	10/03/16				
Chloride	15000	58.1	mg∕kg dry		15000			0.104	20	
Matrix Spike (P6J0305-MS1)	Sou	rce: 6J02004-	01	Prepared &	& Analyzed:	10/03/16				
Chloride	961	1.01	mg/kg dry	1010	ND	95.1	80-120			

Project: XTO Nash Draw Site #10

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02

Fax: (432) 687-0456

Project Manager: Mark Larson

### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source	A/BEO	%REC	nnn	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6J0401 - TX 1005										
Blank (P6J0401-BLK1)				Prepared: (	09/30/16 A	nalyzed: 10	/03/16		.,,,	
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	н							
>C28-C35	ND	25.0	n							
Surrogate: 1-Chlorooctane	126		н	100		126	70-130			
Surrogate: o-Terphenyl	66.4		"	50.0		133	70-130			S-GO
LCS (P6J0401-BS1)				Prepared:	09/30/16 A	nalyzed: 10	0/03/16			
C6-C12	1030	25.0	mg/kg wct	1000		103	75-125			
>C12-C28	1070	25.0	U	1000		107	75-125			
Surrogate: I-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	59.1		n	50.0		118	70-130			
LCS Dup (P6J0401-BSD1)				Prepared:	09/30/16 A	nalyzed: 10	)/03/16			
C6-C12	989	25.0	mg/kg wet	1000		98.9	75-125	4.21	20	
>C12-C28	1000	25.0	4	1000		100	75-125	6.69	20	
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	59.6		и	50.0		119	70-130			
Batch P6J0403 - TX 1005	,,									······································
Blank (P6J0403-BLK1)				Prepared:	09/30/16 A	nalyzed: 10	0/04/16			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	v							
>C28-C35	ND	25.0	0							
Surrogate: I-Chlorooctane	137		и	150		91.0	70-130			
Surrogate: o-Terphenyl	71.5		u	75.0		95.4	70-130			

Project: XTO Nash Draw Site #10

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Resuit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6J0403 - TX 1005										······
LCS (P6J0403-BS1)				Prepared: 0	09/30/16 A	nalyzed: 10	/04/16			
C6-C12	1050	25.0	mg/kg wet	1000		105	75-125			
>C12-C28	1050	25.0	н	1000		105	75-125			
Surrogate: 1-Chlorooctane	155	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>n</i>	150		104	70-130			,
Surrogate: o-Terphenyl	72.4		и	75.0		96.6	70-130			
LCS Dup (P6J0403-BSD1)				Prepared:	09/30/16 A	nalyzed: 10	0/04/16			
C6-C12	1100	25.0	mg/kg wet	1000		110	75-125	4.31	20	
>C12-C28	1120	25.0	н	1000		112	75-125	5.67	20	
Surrogate: 1-Chlorooctane	165	,	a	150		110	70-130			***************************************
Surrogate: o-Terphenyl	77.0		n	75.0		103	70-130			

Larson & Associates, Inc. Project: XTO Nash Draw Site #10 Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02 Project Manager: Mark Larson

#### **Notes and Definitions**

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
ilry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dun	Duplicate

	Burn Lamer			
Report Approved By:	Company of the compan	Date:	11/4/2016	

Brent Barron, Laboratory Director/Technical Director

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1400 Rankin HWY Midland, TX 79701 432-686-7235

## PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



## Analytical Report

#### **Prepared for:**

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Nash Draw Battery #10
Project Number: 16-0108-02
Location: New Mexico

Lab Order Number: 6J20016



NELAP/TCEQ # T104704156-13-3

Report Date: 10/24/16

Project: Nash Draw Battery #10

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710

Project Number: 16-0108-02 Project Manager: Mark Larson

#### ANALYTICAL REPORT FOR SAMPLES

Sample 1D	Laboratory ID	Matrix	Date Sampled	Date Received
DP-02-02,15'	6J20016-01	Soil	10/19/16 10:14	10-20-2016 09:32
DP-02-02,20'	6J20016-02	Soil	10/19/16 10:28	10-20-2016 09:32

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw Battery #10

Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

#### DP-02-02,15' 6J20016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Invironmen	tal Lab, l	L <b>.P.</b>				
General Chemistry Parameters by EPA	/ Standard Method	s							
% Moisture	5,0	0.1	%	1	P6J2403	10/24/16	10/24/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	308	26.3	mg/kg dry	l	P6J2407	10/21/16	10/22/16	TPH 8015M	
>C12-C28	739	26.3	mg/kg dry	1	P6J2407	10/21/16	10/22/16	TPH 8015M	
>C28-C35	74.9	26.3	mg/kg dry	1	P6J2407	10/21/16	10/22/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.0 %	70-13	30	P6J2407	10/21/16	10/22/16	TPH 8015M	
Surrogate: o-Terphenyl		97.0 %	70-13	30	P6J2407	10/21/16	10/22/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1120	26.3	mg/kg dry	1	[CALC]	10/21/16	10/22/16	calc	

Project: Nash Draw Battery #10

P.O. Box 50685

Project Number: 16-0108-02

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

#### DP-02-02,20' 6J20016-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

% Moisture	4.0	0.1	%	l	P6J2403	10/24/16	10/24/16	% calculation
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M						
C6-C12	39.2	26.0	mg/kg dry	1	P6J2407	10/21/16	10/22/16	TPH 8015M
>C12-C28	201	26.0	mg/kg dry	1	P6J2407	10/21/16	10/22/16	TPH 8015M
>C28-C35	36.6	26.0	mg/kg dry	1	P6J2407	10/21/16	10/22/16	TPH 8015M
Surrogate: 1-Chlorooctane		95.4 %	70-130		P6J2407	10/21/16	10/22/16	TPH 8015M
Surrogate: o-Terphenyl		104 %	70-130		P6J2407	10/21/16	10/22/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	277	26.0	mg/kg dry	1	[CALC]	10/21/16	10/22/16	calc

Project: Nash Draw Battery #10

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02 Project Manager: Mark Larson Fax: (432) 687-0456

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6J2403 - *** DEFAULT PREP ***					.,					
Blank (P6J2403-BLK1)				Prepared &	Analyzed	: 10/24/16			,	
% Moisture	ND	0.1	%							
Duplicate (P6J2403-DUP2)	Sou	rce: 6J20010-	27	Prepared &	k Analyzed	: 10/24/16				
% Moisture	16.0	0.1	%		15.0			6.45	20	
Duplicate (P6J2403-DUP3)	Sou	rce: 6J20011-	27	Prepared &	k Analyzed	: 10/24/16				
% Moisture	16.0	0.1	%		16.0			0.00	20	

Larson & Associates, Inc. Project: Nash Draw Battery #10 Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-02 Project Manager: Mark Larson

#### Notes and Definitions

BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

	Part Karen		
Report Approved By:		Date:	10/24/2016

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

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LAB WORK ORDER #: PAGE I OF

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Page 7 of 7

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**APPENDIX B** 

Initial C-141

#### NM OIL CONSERVATION

District.!
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr.

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

SEP 07 2016

Revised August 8, 2011

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

**RECEIVED** 

Release Notification and Corrective Action OPERATOR  Name of Company: XTO Renew, Inc. \$380.   Contact: Dudley MeMinn Address: 500 W. Illinois Ave., Suite 100, Midland, TX 70701.   Telephone No: (432) 682-8873 Facility Name: Nash Draw Unit Battery #10   Facility Type: Tayk Battery (Equipment Removed)  Surface Owner: Federal   Mineral Owner: Federal   API No. 30-015-26992  Unit Letter   Section   Township   Range   Feel from the   Morth/South Line   Peel from the   East   Enery West Line   County: Eddy   East   Latitude 32,3072222   Longitude103-935556  NATURE OF RELEASE  Type of Release: Crude Oil   Volume Recovered: Name    NATURE OF RELEASE   Volume Recovered: Name    NATURE OF RELEASE   Date and Hour of Occurrence   Date and Hour of Discovery    Unit Letter   Yes   No   Not Required   If YES, Owners    Was immediate Notice Given?   Yes   No   Not Required    Was a Watercourse Reached?   Yes   No   If YES, Volume Impacting the Watercourse.    If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*   Hydrocarbons in soil due to historic use of tenk battery reported in soil samples by Jaboratory    Facility that the information given above is true and complete to the best of my knowledge and understand that puraumn to NMCCD rates and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endough public health or the environment. The acceptance of a C-141 report by the NMCCD maked as "Final Rappor" does and regulations and operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endough public health or the environment. The acceptance of a C-141 report by the NMCCD maked as "Final Rappor" does not require with an analystical data summary.  Thereby certify that the information given above is true and complete to the best of my knowledge and understand that puraumn to NMCCD rates and regulations. In additio	1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa F	Fe, NM 87505										
Name of Company: XTO Energy, Inc.   SSED   Contact: Dudley MeMinn   Address: 100 Willings Average Suite 100, Milling Art X70701   Telephone No.; (432) 682-8873	Release Notificatio	on and Corrective Action										
Name of Company: XTO Energy, Inc.   SSED   Contact: Dudley MeMina   Address: 100 Millinois Ave. Suite 100, Millinois Ave	NAB1625328377	OPERATOR										
Facility Type: Tank Battery (Equipment Removed)	Name of Company: XTO Energy, Inc. 5580											
Mineral Owner: Federal   Mineral Owner: Federal   API No. 30-015-26992												
Unit Letter   Section   Township   Range   Feel from the   1730   North/South Line   Feet from the   1830   East   County: Eddy												
Unit Letter   Section   Township   Range   29E   Foot from the   North/South Line   Feet from the   East   County: Eddy	Surface Owner: Federal Mineral Owner	: Federal   API No. 30-015-20592										
Latitude 32,307222 Longitude _103,935556  NATURE OF RELEASE  NATURE OF RELEASE  Type of Release: Crude Oil Volume of Release: Unknown Volume Recovered: None  Date and Hour of Decurrence Date and Hour of Discovery Unknown (7-20-2016)  Was Immediate Notice Given? Date and Hour of Discovery Unknown (7-20-2016)  By Whom? Date and Hour Of Discovery Unknown (7-20-2016)  By Whom? Date and Hour Of Discovery Unknown (7-20-2016)  By Whom? Date and Hour Of Discovery Unknown (7-20-2016)  By Whom? Date and Hour Of Discovery Unknown (7-20-2016)  By Whom? Date and Hour Of Discovery Unknown (7-20-2016)  If YES, To Whom?  Date and Hour Of Discovery Unknown (7-20-2016)  If YES, Volume Impacting the Watercourse.  Describe Cause of Problem and Remedial Action Taken.* Hydrocarbons in soil due to historic use of tank battery reported in soil samples by laboratory following removal of tanks and equipment. Will remediate to OCD and BLM requirements.  Describe Area Affected and Cleanup Action Taken.* Affected soil to be excavated, treated onsite treatment or disposed offsite at OCD approved facility. Refer to attached analytical data summary.  Thereby 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 ambier file certain release notifications and perform corrective actions for release which may enabanger public health or the environment. In accetopance of a C-141 report does not releve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pass a threat to ground water, surface water, thuman health or the environment. In addition, NMOCD acceptance of a C-141 report does not releve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Approved by Environmental Specialist:  Conditions of Approved Date: Planes Call Date Call Date Call Date Call Date Call Da												
Type of Release: Crude Oil    Volume of Release: Unknown   Volume Recovered: None	with the control of											
Type of Release: Crude Oil    Volume of Release: Unknown   Volume Recovered: None												
Volume of Release: Crude Oil   Volume of Release: Unknown   Volume Recovered: Note	Latitude <u>32,30722</u>	2 Longitude <u>-103,935556</u>										
Volume of Release: Crude Oil   Volume of Release: Unknown   Volume Recovered: Note	NATURI	e of release										
Unknown   07-20-2016												
Was Immediate Notice Given?  Was Immediate Notice Given?  Yes No Not Required  By Whom?  Date and Hour  If YES, To Whom?  If a Watercourse Reached?  Yes No  If a Watercourse was Impacted, Describe Fully.  Describe Cause of Problem and Remedial Action Taken.  Describe Cause of Problem and Remedial Action Taken.  Describe Area Affected and Cleanup Action Taken.  Affected soil to be excavated, treated onsite treatment or disposed offsite at OCD approved facility. Refer to attached analytical data summary.  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 Reproduction, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, stele, or local laws and/or regulations.  Signature:  OIL CONSERVATION DIVISION  Printed Name: Luke Williams  Approval Date:  OP-07-2016  Phone: (432) 683-8873  Date in 4 Hour  If YES, Volume Impacting the Watercourse.	Source of Release: Spills	Date and Hour of Occurrence Date and Hour of Discovery										
By Whom?  Was a Watercourse Reached?  Yes No  If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.* Hydrocarbons in soil due to historic use of tank battery reported in soil samples by laboratory following removal of tanks and equipment. Will remediate to OCD and BLM requirements.  Describe Area Affected and Cleanup Action Taken.*  Affected soil to be excavated, treated onsite treatment or disposed offsite at OCD approved facility. Refer to attached analytical data summary.  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 undor 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 "Finat Report does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Approval Date:  ONL CONSERVATION DIVISION  Printed Name: Luke Williams  Approval Date:  OP-07-2016  Phone: (432) 683-8873												
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