# 2RP-3876 REMEDIATION REPORT Nash Draw Tank Battery #9

Eddy County, New Mexico

LAI Project No. 16-0108-03

March 21, 2017

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.

Certified Professional Geologist #10490



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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this report on behalf of XTO Energy, Inc. (XTO) for submittal to the New Mexico Oil Conservation Division (OCD) District 2, in Artesia, New Mexico and U.S. Bureau of Land Management (BLM) in Carlsbad, New Mexico, to document soil remediation at the Nash Draw #9 tank battery (Site). The Site is located in Unit B (NW/4, NE/4), Section 13, Township 23 South, Range 29 East in Eddy County, New Mexico. The geodetic position is North 32° 18′ 35.21677″ and West 103° 56′ 13.33217″. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

## 1.1 Background

On June 21, 2016, LAI personnel used a Terraprobe<sup>®</sup> direct-push rig to collect soil samples at five (5) locations (DP-03-01 through DP-03-05). Soil samples were collected between ground surface and approximately four (4) feet below ground surface (bgs). A background sample (DP-03-BG) was collected about 60 feet west of the Site at approximately 1 foot bgs. The laboratory analysis and initial C-141 were submitted to OCD which assigned remediation permit number 2RP-3876, on September 8, 2016.

On September 29, 2016, LAI personnel supervised a backhoe operated by SDR Enterprises, LLC (SDR), Hobbs, New Mexico, to collect soil samples to delineate impacts observed in samples from DP-03-01, DP-03-02 and DP-03-05. On October 19, 2016, LAI personnel supervised Scarborough Drilling, Inc. (SDI), Lamesa, Texas, to collect soil samples with an air rotary rig and jam tube sampler to delineate total petroleum hydrocarbons (TPH) and chloride observed in samples from location DP-03-02. Table 1 presents the analytical data summary for the assessment soil samples

On November 7, 2016, LAI, on behalf of XTO, submitted a plan OCD District 2 and BLM for approval to remediate impacts to soil based on laboratory analysis of soil samples collected on June 21, 2016, September 28, 2016 and October 19, 2016. On November 10, 2016, OCD District 2 approved the remediation plan. Appendix A presents the OCD approval.

### 1.2 Physical Setting

The physical setting is as follows:

- Elevation is approximately 3,000 feet above mean sea level (AMSL);
- Topography slopes west towards a playa lake (Salt Lake) located about 700 feet 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 State of New Mexico Office of the State Engineer (NMOSE) records a fresh water well is located about 1.5 miles south in Unit J (NW/4, SE/4), Section 24, Township 23 South, Range 29 East with groundwater reported at about 54 feet bgs.

#### 1.3 Recommended Remediation Action Levels

Recommended remediation action levels (RRAL) were calculated for benzene, BTEX and TPH based on the following criteria established by the 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	200 - 1,000 Horizontal Feet	10

The following RRAL apply to the release for ranking score: 10

Benzene 10 mg/Kg
 BTEX 50 mg/Kg
 TPH 100 mg/Kg

### 2.0 REMEDIATION

Soil remediation was performed between November 9, 2016 and December 15, 2016, according to the plan approved by OCD District 2 on November 10, 2016. SDR, under supervision from LAI, excavated soil from the area of DP-03-01 and DP-03-02 measuring about 45 x 50 feet to about 5 feet bgs. SDR excavated soil from the area of DP-03-04 measuring about 15 x 20 feet to about 2 feet bgs. SDR excavated soil from the area of DP-03-05 measuring about 35 x 50 feet to about 4 feet bgs. Soil samples collected from the excavation sidewalls were analyzed by Permian Basin Environmental Lab (PBEL) for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA SW-846 Method 8020B and TPH by EPA SW-846 Method 8015 including GRO (C6 – C12), DRO (>C12 – C28) and ORO (>C28 – C35). Soil was excavated laterally until concentrations of benzene, BTEX and TPH were below the RRAL of 10 mg/Kg, 50 mg/Kg) and 100 mg/Kg, respectively. The excavation was filled with caliche.

Approximately 1,423 cubic yards of contaminated soil was disposed at Lea Land Landfill, LLC. Table 2 presents the confirmation soil sample analytical data summary. Figure 3 presents the remediation areas. Appendix B presents the confirmation sample laboratory reports. Appendix C presents photographs. Appendix D presents the waste manifests. Appendix E presents the initial and final C-141.

### 3.0 CONCLUSIONS

Soil was remediated according to the remediation plans approved by OCD District 2. XTO requests no further action for 2RP-3876.



2RP-3876
Assessment Soil Sample Analytical Data Summary
XTO Energy, Inc., Nash Draw Tank Battery 9
Unit B (NW/4, NE/4), Section 13, Township 23 South, Range 29 East Eddy County, New Mexico

Location	Depth	Collection	Status	C6 - C12	>C12 - C28	>C28 - C35	ТРН	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:							100	
DP-03 -BG	0 - 1	6/21/2016	In-Situ	<26.0	<26.0	<26.0	<26.0	59.4
DP-03-01	0-1	6/21/2016	Excavated	390	3,670	1,130	5,190	63.9
	1-2	6/21/2016	Excavated				1	
	2-3	6/21/2016	Excavated	876	10,200	1,440	12,516	330
	3-4	6/21/2016	Excavated	1,080	10,500	1,370	12,950	104
	9	9/29/2016	In-Situ	<29.1	80.0	<29.1	80.0	3
	10	9/29/2016	In-Situ	<27.5	137	41.5	178.5	ř
	14	9/29/2016	In-Situ	<27.2	8.89	<27.2	68.8	Ï
DP-03-02	0-1	6/21/2016	Excavated	641	12,800	2,250	15,691	809
	1-2	6/21/2016	Excavated	921	17,600	2,250	20,771	1,590
	2-3	6/21/2016	Excavated	274	7,390	1,290	8,954	1,690
	3 - 4	6/21/2016	Excavated	403	11,500	1,450	13,300	715
	9	9/29/2016	In-Situ	381	5,620	2776	6,770	1,110
	. 7	9/29/2016	In-Situ	160	1,790	320	2,270	260
	10	10/19/2016	In-Situ	<26.6	<26.6	<26.6	<26.6	60.2
	15	10/19/2016	In-Situ	<26.3	<26.3	<26.3	<26.3	158
	20	10/19/2016	In-Situ	3 <b>4</b>	1	1	ì	Ĭ
DP-03-03	0 - 1	6/21/2016	In-Situ	<28.1	379	107	486	53.7

Unit B (NW/4, NE/4), Section 13, Township 23 South, Range 29 East Assessment Soil Sample Analytical Data Summary XTO Energy, Inc., Nash Draw Tank Battery 9 Eddy County, New Mexico 2RP-3876 Table 1

Chloride (mg/Kg)		AU	E E	1,680	275	I	6,170	1,170	574	152	755	494	
TPH (mg/Kg)	100		E.	4,607	175.9	27.9	24,230	4,428.30	2,310	71.7	<29.1	8.99	
>C28 - C35 (mg/Kg)		3	£	857	41.9	<26.9	3,500	583	280	<28.7	<29.1	<27.5	
>C12 - C28 (mg/Kg)		1	1	3,750	134	27.9	19,300	3,800	2,000	71.7	<29.1	8.99	
C6 - C12 (mg/Kg)		1	1	<139	<31.6	<26.9	1,430	45.3	35.0	<28.7	<29.1	<27.5	
Status		In-Situ	In-Situ	Excavated	Excavated	In-Situ	Excavated	Excavated	Excavated	Excavated	In-Situ	In-Situ	
Collection Date		6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	9/29/2016	9/29/2016	9/29/2016	
Depth (Feet)		1-2	2-3	0 - 1	1-2	2 - 3	0-1	1-2	2-3	4	9	6	
Location	OCD RRAL:			DP-03-04			DP-03-05						

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

Table 2
2RP-3876
Confirmation Soil Sample Analytical Data Summary
XTO Energy, Inc., Nash Draw Tank Battery 9
Unit B (NW/4, NE/4), Section 13, Township 23 South, Range 29 East Eddy County, New Mexico

Location	Sidewall	Depth	Collection	Status	Benzene	BTEX	C6 - C12	>C12 - C28	>C28 - C35	ТРН
		(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:					10	20				100
DP-03-01	South	3	11/9/2016	Excavated	<0.00114	<0.008	59.9	430	72.1	295
		80	11/18/2016	In-Situ	3	31	<28.4	<28.4	<28.4	<28.4
	East	က	11/9/2016	Excavated	<0.00111	<0.0078	52.4	1,650	339	2,041.4
		က	11/18/2016	In-Situ	ı	ł	<28.1	<28.1	<28.1	<28.1
	West	က	11/9/2016	In-Situ	<0.00111	<0.0078	<27.8	<27.8	<27.8	<27.8
	North	က	11/9/2016	Excavated	0.00324	0.38174	1,410	5,320	862	7,590
		2	11/18/2016	In-Situ	Ĭ	I	<27.5	<27.5	<27.5	<27.5
DP-03-02	North	4	11/9/2016	In-Situ	<0.00114	0.00411	<28.4	<28.4	<28.4	<28.4
	East	4	11/9/2016	Excavated	<0.00109	0.03843	<27.2	381	87.0	468
		4	11/18/2016	In-Situ		ł	<28.4	<28.4	<28.4	<28.4
	South	4	11/9/2016	In-Situ	<0.00114	0.00319	<28.4	<28.4	<28.4	<28.4
	West	8	11/9/2016	In-Situ	<0.00115	0.00271	<28.7	<28.7	<28.7	<28.7
			11/9/2016							
DP-03-05	North	2	11/9/2016	In-Situ	<0.00106	<0.01	<26.6	<26.6	<26.6	<26.6
	East	2	11/9/2016	Excavated	<0.00111	<0.01	<27.8	319	71.3	390.3
		4	11/18/2016	In-Situ	1	1	<27.2	<27.2	<27.2	<27.2
	South	2	11/9/2016	Excavated	<0.00111	<0.01	<27.8	1,400	427	1,830
		4	11/18/2016	In-Situ	ł	ľ	<27.5	<27.5	<27.5	<27.5
	West	2	11/9/2016	Excavated	<0.00111	<0.01	<27.8	267	78.5	345.5
		4	11/18/2016	In-Situ	1	1	<27.2	<27.2	<27.2	<27.2

Table 1
2RP-3876
Assessment Soil Sample Analytical Data Summary
XTO Energy, Inc., Nash Draw Tank Battery 9
Unit B (NW/4, NE/4), Section 13, Township 23 South, Range 29 East Eddy County, New Mexico

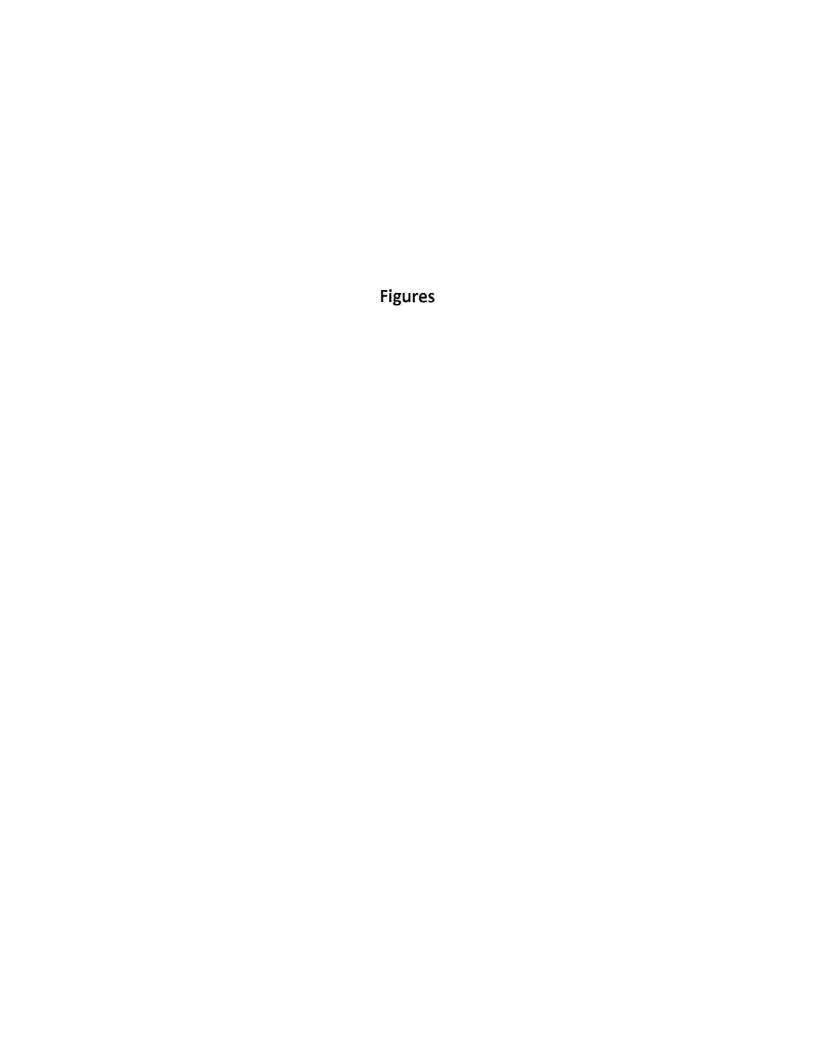
Location	Depth	Collection	Status	C6 - C12	>C12 - C28	>C28 - C35	TPH	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
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Chloride (mg/Kg)		3	Ī	1,680	275	I	6,170	1,170	574	152	755	494
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>C12 - C28 (mg/Kg)		1	1	3,750	134	27.9	19,300	3,800	2,000	71.7	<29.1	8.99
C6 - C12 (mg/Kg)	- The Control of the	1	1	<139	<31.6	<26.9	1,430	45.3	35.0	<28.7	<29.1	<27.5
Status		In-Situ										
Collection Date		6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	6/21/2016	9/29/2016	9/29/2016	9/29/2016
Depth (Feet)		1-2	2 - 3	0 - 1	1-2	2-3	0-1	1-2	2-3	4	9	6
Location	OCD RRAL:			DP-03-04			DP-03-05					

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)

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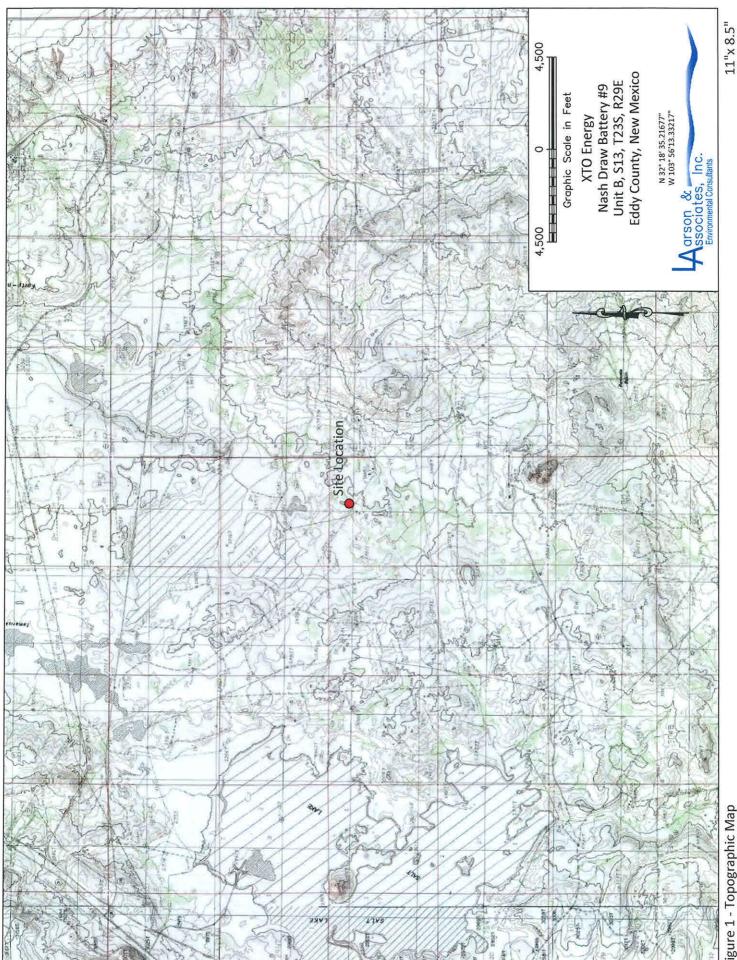


Figure 1 - Topographic Map

Figure 2 - Aerial Map

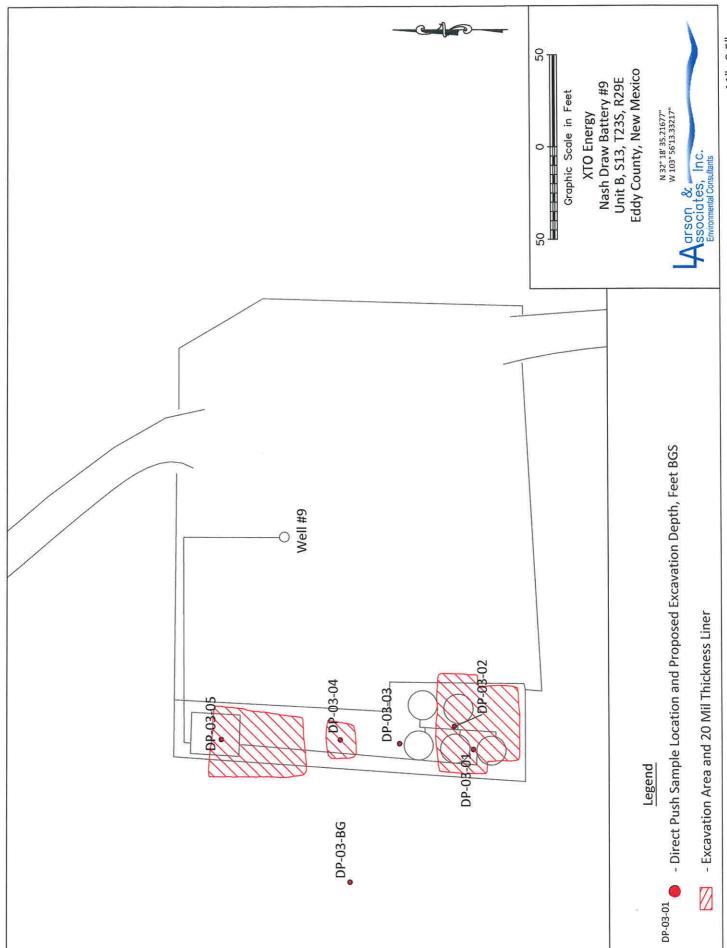


Figure 3 - Site Map Showing Excavation and Sample Locations

11"x 8.5"

# Appendix A Remediation Plan Approval

From: Patterson, Heather, EMNRD [Heather.Patterson@state.nm.us]

Sent: Thursday, November 10, 2016 1:50 PM

To: Mark Larson; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD;

hprice@blm.gov

Cc: McMinn, Dudley; Williams, Luke

Subject: RE: 2RP-3876, Remediation Plan, Nash Draw Tank Battery #9, November 2,

2016

RE: XTO \* Nash Draw Battery #9 \* 30-015-26991 \* 2RP-3876

Mark,

Your proposed remediation for the above referenced site is approved.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson Environmental Specialist NMOCD District II Office (575)748-1283 ext.101 Cell (575)703-0228

From: Mark Larson [mailto:Mark@laenvironmental.com]

Sent: Monday, November 07, 2016 6:41 PM

To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; hprice@blm.gov

Cc: McMinn, Dudley; Williams, Luke

Subject: Re: 2RP-3876, Remediation Plan, Nash Draw Tank Battery #9, November 2, 2016

All,

Please find attached remediation plan for the Nash Draw Tank Battery #9. The plan was revised to include BTEX in excavation samples, where applicable, and the laboratory report for soil samples collected on September 29, 2016. Remediation will commence on Tuesday, November 8, 2016, per our verbal discussion and approval yesterday. Please contact Dudley McMinn with XTO at (432) 682-8873 or me if you have questions.

Respectfully,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 205
Midland, Texas 79701
Office — 432-687-0901
Cell — 432-556-8656
Fax — 432-687-0456
mark@laenvironmental.com

## Appendix B 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: Nash Draw Battery #9
Project Number: 11-0108-03
Location: Eddy Co., NM

Lab Order Number: 6K14002



NELAP/TCEQ # T104704156-13-3

Report Date: 11/15/16

Project: Nash Draw Battery #9

P.O. Box 50685 Midland TX, 79710 Project Number: 11-0108-03 Project Manager: Mark Larson Fax: (432) 687-0456

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-03-01,S3	6K14002-01	Soil	11/09/16 09:40	11-11-2016 16:00
DP-03-01,E3	6K14002-02	Soil	11/09/16 09:45	11-11-2016 16:00
DP-03-01,W3	6K14002-03	Soil	11/09/16 09:50	11-11-2016 16:00
DP-03-01,N3	6K14002-04	Soil	11/09/16 09:55	11-11-2016 16:00
DP-03-02, N4	6K14002-05	Soil	11/09/16 13:50	11-11-2016 16:00
DP-03-02, E4	6K14002-06	Soil	11/09/16 13:56	11-11-2016 16:00
DP-03-02, S4	6K14002-07	Soil	11/09/16 14:00	11-11-2016 16:00
DP-03-02, W3	6K14002-08	Soil	11/09/16 14:05	11-11-2016 16:00
DP-03-05, N2	6K14002-09	Soil	11/09/16 15:30	11-11-2016 16:00
DP-03-05, E2	6K14002-10	Soil	11/09/16 15:42	11-11-2016 16:00
DP-03-05, S2	6K14002-11	Soil	11/09/16 15:45	11-11-2016 16:00
DP-03-05, W2	6K14002-12	Soil	11/09/16 15:48	11-11-2016 16:00

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw Battery #9

Project Number: 11-0108-03 Project Manager: Mark Larson Fax: (432) 687-0456

## DP-03-01,S3 6K14002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Invironment	al Lab, l	L.P.				
Organics by GC					589	100000000000000000000000000000000000000	skonterns de		emeat.
Benzene	ND	0.00114	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Toluene	ND	0.00227	mg/kg dry	3	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		77.0 %	75-12	5	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		76.6 %	75-12	5	P6K1401	11/14/16	11/14/16	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Methor	is							
% Moisture	12.0	0.1	%	1	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 8	015M	ptv46/4/47	00.000 (00.000	sus a successiva une e en suemo e const	le .	16 91 0000000000000000000000000000000000		25.000
C6-C12	59.9	28.4	mg∕kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	430	28.4	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	72.1	28.4	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		63.4 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		79.1 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	562	28.4	mg/kg dry	1	[CALC]	11/14/16	11/15/16	cale	

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw Battery #9

Project Number: 11-0108-03 Project Manager: Mark Larson

> DP-03-01,E3 6K14002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	invironmen	tal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0,00111	mg/kg dry	J	P6K1401	11/14/16	11/14/16	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1.	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		74.1%	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		80.2 %	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Method	de							
% Moisture	10.0	0.1	%	j	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 8	015M							
C6-C12	52.4	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	1650	27.8	mg/kg dry	1.	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	339	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		68.6 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		87.2 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2040	27.8	mg/kg dry	j	[CALC]	11/14/16	11/15/16	calc	

Fax: (432) 687-0456

Project: Nash Draw Battery #9

Fax: (432) 687-0456

Project Number: 11-0108-03

P.O. Box 50685 Midland TX, 79710

Project Manager: Mark Larson

## DP-03-01,W3 6K14002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environmen	al Lab, l	L.P.				
Organies by GC					- victis Catalan - a moral and Adams	ANN 1000 ALUEN COMMANDENSO	WANTED BASIN TO A STATE OF THE	W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	**************************************
Benzene	ND	0.00111	mg/kg dry	)	P6K1401	11/14/16	11/14/16	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	j.	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	9	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	j	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		75.6 %	75-12	5	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		73.8 %	75-12	5	P6K1401	11/14/16	11/14/16	EPA 8021B	S-GC
General Chemistry Parameters by EPA	Standard Method	ds							eve.
% Moisture	10.0	0.1	%	1	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M	100-000-00						
C6-C12	ND	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		94.0 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	Patricianing and
Surrogate: o-Terphenyl		106%	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	11/14/16	11/15/16	calc	

Project: Nash Draw Battery #9

P.O. Box 50685

Project Number: 11-0108-03 Project Manager: Mark Larson Fax: (432) 687-0456

Midland TX, 79710

DP-03-01,N3 6K14002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironme	ıtal Lab, l	L.P.				
Organics by GC		Walking and Statistics	-nonent-room					100 000 000 000 000 000 000 000 000 000	
Benzene	0.00324	0.00112	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	60/428,76090
Toluene	0.0726	0.00225	mg/kg dry	11,	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	0.0714	0.00112	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	0.155	0.00225	mg/kg dry	11	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (0)	0.0795	0.00112	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		76.7 %	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		62.7 %	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	S-GC
General Chemistry Parameters by E	PA / Standard Metho	ds		100					Zajiti k
% Moisture	11.0	0.1	%	il.	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 8	015M	200000	CARRELING VALUE OF	W	53 1000153	THE THE RESERVE AND ADDRESS OF A		
C6-C12	1410	281	mg/kg dry	10	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	5320	281	mg/kg dry	10	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	862	281	mg/kg dry	10	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.7 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	T I HALLING
Surrogate: o-Terphenyl		96.6 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	7590	281	mg/kg dry	10	[CALC]	11/14/16	11/15/16	calc	

Project: Nash Draw Battery #9

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 11-0108-03 Project Manager: Mark Larson

> DP-03-02, N4 6K14002-05 (Soil)

Analyte	Rosult	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironmen	tal Lab, l	<b>∠.P.</b>				
Organics by GC				2520 153 00 000	1 K - 150 at a 150				
Benzene	ND	0.00114	mg∕kg dry	j	P6K1401	11/14/16	11/14/16	EPA 8021B	
<b>Foluene</b>	0.00411	0.00227	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	ĵ	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	Í	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1.	P6K1401	11/14/16	11/14/16	EPA 8021B	101111 1000000
Surrogate: 4-Bromofluorobenzene		90.1 %	75-12	?5	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		70.4 %	75-12	25	P6K1401	11/14/16	11/14/16	EPA 8021B	S-GC
General Chemistry Parameters by EPA	/ Standard Metho	ds	- W-05-910 X Z-0			40	- NO NO 1950		
% Moisture	12.0	0.1	%	1.	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M		Anna de Alema de Transportação de Comp.		SACIONATION IN AN INVESTIGATION	Water Commission of the Commis		
C6-C12	ND	28.4	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	ji	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	ì	P6K1504	11/14/16	11/15/16	TPH 8015M	
Swrogate: 1-Chlorooctane	100 m	75.8 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: o-Terphenyl		85.4 %	70-1.	80	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	j	[CALC]	11/14/16	11/15/16	calc	

P.O. Box 50685

Midland TX, 79710

Project: Nash Draw Battery #9

Project Number: 11-0108-03

Project Manager: Mark Larson

## DP-03-02, E4 6K14002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin E	nvironmer	ıtal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00109	mg⁄kg dry	ľ	P6K1401	11/14/16	11/14/16	EPA 8021B	
Tolucne	0.0203	0.00217	mg∕kg dry	ß	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	0.00543	0.00109	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	0.00818	0.00217	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (o)	0.00452	0.00109	mg/kg dry	E	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.1 %	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	CONTRACT AND
Surrogate: 1,4-Difluorobenzene		75.3 %	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ds				MANAGEMENT OF THE PROPERTY OF			
% Moisture	8.0	0.1	%	ì	P6K1505	11/15/16	11/15/16	% calculation	5//
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 8	015M	THE SECRETARIES	221 2023 202		100 - 100 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	28 (4 A)04(4)38	DESCRIPTION OF THE PROPERTY OF	
C6-C12	ND	27.2	mg/kg dry	i sterio.	P6K1504	11/14/16	11/15/16	TPH 8015M	
C12-C28	381	27.2	mg/kg dry	I.	P6K1504	11/14/16	11/15/16	TPH 8015M	
C28-C35	87.0	27.2	mg/kg dry	Ĺ	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		75.8 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: o-Terphenyl		87.4 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Fotal Petroleum Hydrocarbon C6-C35	468	27.2	mg/kg dry	I.S.	[CALC]	11/14/16	11/15/16	calc	

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P.O. Box 50685 Midland TX, 79710 Project: Nash Draw Battery #9

Project Number: 11-0108-03

Project Manager: Mark Larson

## DP-03-02, S4 6K14002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Cnvironment	al Lab, I	L.P.				
Organics by GC		45	Concerns the Address of Street Assistants for						NICKEL TO
Benzene	ND	0.00114	mg/kg dry	i.	P6K1401	11/14/16	11/14/16	EPA 8021B	
<b>Foluene</b>	0.00319	0.00227	mg/kg dry	j	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	J	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	3	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	<b>(1</b> ∈	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	Parameter of the control of the cont	69.6 %	75-12	5	P6K1401	11/14/16	11/14/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		75.7 %	75-12	5	P6K1401	11/14/16	11/14/16	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ds						****	
% Moisture	12.0	0.1	%	1	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M	500	fotositalini senii kele		ACTED DATES OF THE O	STEET CAN'ED CASSES AND COMMENT TO BE	Quel Lida	NaveCV1 875564 6
C6-C12	ND	28.4	mg/kg dry	j	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	ì	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	4	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: I-Chlorooctane		68.9 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		78.5 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	ä	[CALC]	11/14/16	11/15/16	calc	

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Project: Nash Draw Battery #9

P.O. Box 50685 Midland TX, 79710 Project Number: 11-0108-03 Project Manager: Mark Larson Fax: (432) 687-0456

## DP-03-02, W3 6K14002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironmen	tal Lab, l	L <b>.P.</b>				
Organics by GC		Market		de Alex					
Benzene	ND	0.00115	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Toluene	ND	0.00230	mg/kg dry	1.	P6K1401	11/14/16	11/14/16	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (p/m)	0.00271	0.00230	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	
Xylene (0)	0.00144	0.00115	mg/kg dry	1	P6K1401	11/14/16	11/14/16	EPA 8021B	nie sa peu pae
Surrogate: 4-Bromofluorobenzene		76.5 %	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		69.5 %	75-1	25	P6K1401	11/14/16	11/14/16	EPA 8021B	S-GC
General Chemistry Parameters by EPA	/ Standard Metho	ds		eat proag		1000 to to be		WINTERSON AND WATER	
% Moisture	13.0	0.1	%	1	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M			2000000				
C6-C12	ND	28.7	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	(F)	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		73.4 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: o-Terphenyl		83.2 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	11/14/16	11/15/16	calc	

P.O. Box 50685

Midland TX, 79710

Project: Nash Draw Battery #9

Project Number: 11-0108-03 Project Manager: Mark Larson

> DP-03-05, N2 6K14002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironment	al Lab, l	<b>L.P.</b>				
Organics by GC				20 000000		Oh. 1875			
Benzene	ND	0.00106	mg/kg dry	j	P6K1502	11/15/16	11/15/16	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	ā	P6K1502	11/15/16	11/15/16	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	a	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	3	P6K1502	11/15/16	11/15/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	CONTRACTOR OF STREET	74.4 %	75-12	5	P6K1502	11/15/16	11/15/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		76.7 %	75-12.	5	P6K1502	11/15/16	11/15/16	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds				440000 FOVO			
% Moisture	6.0	0.1	%	1	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M		2004-001		-145-44-0-0000		26	
C6-C12	ND	26.6	mg/kg dry	Ti i	P6K1504	11/14/16	11/15/16	TPH 8015M	10 10 10
>C12-C28	ND	26.6	mg/kg dry	j.	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	ij	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane	reses animalonalmentality fo	67.9 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		80.2 %	70-13	0	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	i	[CALC]	11/14/16	11/15/16	calc	

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Project: Nash Draw Battery #9

P.O. Box 50685

Midland TX, 79710

Project Number: 11-0108-03 Project Manager: Mark Larson Fax: (432) 687-0456

## DP-03-05, E2 6K14002-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironmer	ıtal Lab, I	P.				
Organics by GC		0000 Maria	CARA ISAN AN					de da construir de la construi	
Benzene	ND	0.00111	mg/kg dry	1	P6K1502	11/15/16	11/15/16	EPA 8021B	
Toluene	ND	0.00222	mg∕kg dry	Ĩ	P6K1502	11/15/16	11/15/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	i	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	ι	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P6K1502	11/15/16	11/15/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	The second secon	97.0 %	75-1	25	P6K1502	11/15/16	11/15/16	EPA 8021B	AV SSLYNOSHUREVI
Surrogate: 4-Bromofluorobenzene		99.3 %	75-1	25	P6K1502	11/15/16	11/15/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Metho	ds							
% Moisture	10.0	0.1	%	1	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 8	015M	dissil Colone					A D. ( \$ 200 S 500 A 60 A 600 C	Tarken erone
C6-C12	ND	27.8	mg/kg dry	i manin	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C12-C28	319	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	71.3	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		69.4 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		81.5 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	391	27.8	mg/kg dry	1	[CALC]	11/14/16	11/15/16	cale	

Project: Nash Draw Battery #9

P.O. Box 50685 Midland TX, 79710 Project Number: 11-0108-03 Project Manager: Mark Larson Fax: (432) 687-0456

## DP-03-05, \$2 6K14002-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironmer	ıtal Lab, i	L.P.				
Organics by GC		mar Sunancia - David Jaba Baranda da Garanda Garanda Garanda Garanda Garanda Garanda Garanda Garanda Garanda G							
Benzene	ND	0.00111	mg/kg dry	1	P6K1502	11/15/16	11/15/16	EPA 8021B	
l'oluene	ND	0.00222	mg/kg dry	36	P6K1502	11/15/16	11/15/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	эij	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	11	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	12	P6K1502	11/15/16	11/15/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.9 %	75-1	25	P6K1502	11/15/16	11/15/16	EPA 8021B	THE SECURITIES CHAPTER
Surrogate: 1,4-Difluorobenzene		77.2 %	75-1	25	P6K1502	11/15/16	11/15/16	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Metho	ds							
% Moisture	10.0	0.1	%	H	P6K1505	11/15/16	11/15/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 8	015M	E Indonésia na					Sweezer	
C6-C12	ND	27.8	mg/kg dry	ji	P6K1504	11/14/16	11/15/16	TPH 8015M	1000
>C12-C28	1400	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	427	27.8	mg/kg dry	j <b>i</b> j	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane	warene Eddi Sir Monte (Color (	72.8 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	**********
Surrogate: o-Terphenyl		85.5 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1830	27.8	mg/kg dry	I	[CALC]	11/14/16	11/15/16	calc	

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw Battery #9

Project Number: 11-0108-03 Project Manager: Mark Larson

> DP-03-05, W2 6K14002-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perr	nian Basin E	nvironmen	ital Lab, l	L.P.	<del>man said an an an</del>			
Organics by GC				10					
Benzene	ND	0.00111	mg/kg dry	il.	P6K1502	11/15/16	11/15/16	EPA 8021B	
Toluene	0.00604	0.00222	mg/kg dry	1	P6K1502	11/15/16	11/15/16	EPA 8021B	
Ethylbenzene	0.00254	0.00111	mg/kg dry	I.	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (p/m)	0.00656	0.00222	mg/kg dry	aÚ.	P6K1502	11/15/16	11/15/16	EPA 8021B	
Xylene (o)	0.00237	0.00111	mg/kg dry	1	P6K1502	11/15/16	11/15/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	to a supplemental and a suppleme	75.8 %	75-1	25	P6K1502	11/15/16	11/15/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		78.2 %	75-1	25	P6K1502	11/15/16	11/15/16	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	is	was a					5 00000000	
% Moisture	10.0	0.1	%	11.	P6K1505	11/15/16	11/15/16	% calculation	SNORGE A
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 8	015M							
C6-C12	ND	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	eres vivo
>C12-C28	267	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
>C28-C35	78.5	27.8	mg/kg dry	1	P6K1504	11/14/16	11/15/16	TPH 8015M	
Surrogate: 1-Chlorooctane		73.9 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	DUTCH ENERGYMEN
Surrogate: o-Terphenyl		85.8 %	70-1	30	P6K1504	11/14/16	11/15/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	346	27.8	mg/kg dry	Ī	[CALC]	11/14/16	11/15/16	calc	

Fax: (432) 687-0456

Project: Nash Draw Battery #9

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710

Project Number: 11-0108-03

Project Manager: Mark Larson

Organics by GC - 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 P6K1401 - General Preparatio	on (GC)						Norman Salaharan (1983) erkelik			
Blank (P6K1401-BLK1)				Prepared &	Analyzed:	11/14/16				
Benzene	ND	0.00100	mg/kg wet				***************************************	STR. 1631 (ESESSIVA)		## 100 cost growth towns
Toluenc	ND	0.00200	30							
Ethylbonzone	ND	0.00100	v							
Xylene (p/m)	ND	0.00200	, Ar							
Xylene (o)	ND	0.00100	n							
Surrogate: 1,4-Difluorobenzene	0.0567	**************************************	h	0.0800	241.04 (41.0 (0.00 (0.004.0.00))	70.9	75-125		excellent translation and	S-GC
Surrogate: 4-Bromofluorobenzene	0.0619		$\cdot n$	0.0800		77.4	75-125			
LCS (P6K1401-BS1)				Prepared &	Analyzed:	11/14/16				
Benzene	0.0868	0.00100	mg/kg wct	0.100	to the second of the second of the second of the	86.8	70-130			
Toluene	0.0915	0.00200	10	0.100		91.5	70-130			
Ethylbenzene	0.104	0.00100	in:	0.100		104	70-130			
Xylene (p/m)	0.191	0.00200	100	0.200		95.5	70-130			
Xylene (o)	0.0940	0.00100	(40)	0.100		94.0	70-130			
Surrogate: 1,4-Difluorobenzenc	0.0606		ű	0.0800	Marin to accoun	75.7	75-125	reser Preselvide	and the state distribution	0.1593.0394.0394.0324
Surrogate: 4-Bromofluorobenzene	0.0635		<b>H</b>	0.0800		79.4	75-125			
LCS Dup (P6K1401-BSD1)				Prepared &	Analyzed:	11/14/16				
Benzene	0.0861	0.00100	mg/kg wet	0.100		86.1	70-130	0.879	20	
Toluene	0.0927	0.00200	303	0.100		92.7	70-130	1.33	20	
Ethylbenzene	0.109	0.00100	300	0.100		109	70-130	4.75	20	
Xylene (p/m)	0.194	0.00200	300	0.200		96.9	70-130	1.48	20	
Xylene (o)	0.0963	0.00100	(10)	0.100		96.3	70-130	2.48	20	
Surrogate: 1,4-Difluorobenzene	0.0610		H	0.0800	salasasta esa ulli	76.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0660		H	0.0800		82.5	75-125			
Matrix Spike (P6K1401-MS1)	Sou	rce: 6K14001	-01	Prepared &	: Analyzed:	11/14/16				
Велиепе	0.140	0.00118	mg/kg dry	0.235	ND	59.4	80-120			QM-07
Toluene	0.149	0.00235	H)	0.235	ND	63.2	80-120			QM-07
Ethylbenzene	0.153	0.00118	(9)	0.235	ND	64.8	80-120			QM-07
Xylene (p/m)	0.292	0.00235	H	0.471	ND	62.1	80-120			QM-07
Xylene (o)	0.151	0.00118	H	0.235	ND	64.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.0725	STEELER STATE	"	0.0941		77.0	75-125		AL SECURES	emerger of the contract of the
Surrogate: 4-Bromofluorobenzene	0.0774		u	0.0941		82.2	75-125			

Project: Nash Draw Battery #9

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 11-0108-03

Project Manager: Mark Larson

Organics by GC - 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 P6K1401 - General Preparation (C	GC)	····								
Matrix Spike Dup (P6K1401-MSD1)	Sou	rce: 6K14001	1-01	Prepared &	Analyzed:	11/14/16				
Benzene	0.149	0.00118	mg/kg dry	0.235	ND	63.1	80-120	6.16	20	QM-0
Toluene	0.154	0.00235	н	0.235	ND	65.6	80-120	3.76	20	QM-0
Ethylbenzene	0.163	0.00118	h	0.235	ND	69.4	80-120	6.74	20	QM-0
Xylene (p/m)	0.307	0.00235		0.471	ND	65.2	80-120	4.94	20	QM-0
Xylene (o)	0.161	0.00118	n	0.235	ND	68.3	80-120	6.50	20	QM-0
Surrogate: 4-Bromofluorobenzene	0.0799		u	0.0941		84.9	75-125	MARKANISTAN IN		***************************************
Surrogate: 1,4-Difluorobenzene	0.0762		"	0.0941		81.0	75-125			
Batch P6K1502 - General Preparation (C	GC)		Dub v		<u> 10 00 100 100 100 100 100 100 100 100 </u>				ikides	22
Blank (P6K1502-BLK1)	West of the second seco			Prepared &	Analyzed:	11/15/16				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	(n)							
Ethylbenzene	ND	0.00100	(0)							
Xylene (p/m)	ND	0.00200	0							
Xylene (o)	ND	0.00100	n							
Surrogate: 1,4-Difluorobenzene	0.0576		н	0.0800		72.0	75-125			S-G
Surrogate: 4-Bromofluorobenzene	0.0629		9.10°	0.0800		78.6	75-125			
LCS (P6K1502-BS1)				Prepared &	Analyzed:	11/15/16				
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	70-130			
Toluenc	0.0932	0.00200	30	0.100		93.2	70-130			
Ethylbenzene	0.106	0.00100	(0)	0.100		106	70-130			
Xylene (p/m)	0.194	0.00200	800	0.200		96.8	70-130			
Xylene (o)	0.0956	0.00100	age more due	0.100		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0662		Ä	0.0800		82.8	75-125		ana alia	VC 20140050050
Surrogate: 1,4-Difluorobenzene	0.0645		u	0.0800		80.6	75-125			

Surrogate: 4-Bromofluorobenzene

P.O. Box 50685

Midland TX, 79710

Project: Nash Draw Battery #9

Project Number: 11-0108-03

Project Manager: Mark Larson

Fax: (432) 687-0456

## Organics by GC - 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 P6K1502 - General Preparation (GC)			6.000,000						y	
LCS Dup (P6K1502-BSD1)	1970 1770 - 1970 1770 1770 1770 1770 1770 1770 1770	777765 01 2000 01 0000 0000		Prepared &	: Analyzed:	11/15/16		.,		
Benzene	0.0869	0.00100	mg/kg wet	0.100		86.9	70-130	2.37	20	A CONTRACTOR OF THE
Toluene	0.0928	0.00200	н	0.100		92.8	70-130	0.452	20	
Ethylbenzene	0.109	0.00100	B	0.100		109	70-130	3.00	20	
Xylene (p/m)	0.193	0.00200	ij	0.200		96.3	70-130	0.451	20	
Xylene (o)	0.0958	0.00100	Ħ	0.100		95.8	70-130	0.167	20	
Surrogate: 1,4-Difluorobenzene	0.0603	Anna ann an ann an an an an an an an an a	u	0.0800		75.3	75-125			

0.0800

78.8

75-125

0.0630

Duplicate (P6K1505-DUP1)

% Moisture

Project: Nash Draw Battery #9

P.O. Box 50685 Midland TX, 79710 Project Number: 11-0108-03

Fax: (432) 687-0456

20

9.52

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 P6K1505 - *** DEFAULT	PREP ***									
Blank (P6K1505-BLK1)	and the second of the second o			Prepared &	k Analyzed:	11/15/16				
% Moisture	ND	0.1	%							

Prepared & Analyzed: 11/15/16

Source: 6K14002-12

11.0

Project: Nash Draw Battery #9

P.O. Box 50685 Midland TX, 79710

Fax: (432) 687-0456

Project Number: 11-0108-03 Project Manager: Mark Larson

#### 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 P6K1504 - TX 1005	5		W.C. J						AC 34 (7) A 34 (3)	· ·
Blank (P6K1504-BLK1)				Prepared: 1	11/14/16 A	nalyzed: 11	/15/16	A CONTRACTOR OF THE CONTRACTOR		
C6-C12	ND	25.0	mg/kg wet	er e			V 10000 1 R 1000 0 1 R 1 R 1 R 1 R 1 R 1			
>C12-C28	ND	25.0	jį							
>C28-C35	ND	25.0	ij.							
Surrogate: I-Chlorooctane	115		Market States	100	10 14 14 14 1	115	70-130			
Surrogate: o-Terphenyl	70.5		n	50.0		141	70-130			S-G0
LCS (P6K1504-BS1)				Prepared:	11/14/16 A	nalyzed: 11	/15/16			
C6-C12	1050	25.0	mg/kg wet	1000		105	75-125			
>C12-C28	1050	25.0		1000		105	75-125			
Surrogate: 1-Chlorooctane	122	to a constitution designation of	ir	100		122	70-130			
Surrogate: o-Terphenyl	64.4		u	50.0		129	70-130			
LCS Dup (P6K1504-BSD1)				Prepared:	11/14/16 A	nalyzed: 11	/15/16			
C6-C12	1070	25.0	mg/kg wet	1000		107	75-125	1.74	20	
>C12-C28	1040	25.0	H	1000		104	75-125	1.44	20	
Surrogate: 1-Chlorooctane	113	one resolvence resolvence	v	100	an exercise transcription	113	70-130	2022 522203535	a a transportation of the second of the seco	terrene errene errene
Surrogate: o-Terphenyl	64.4		<u>u</u>	50.0		129	70-130			
Matrix Spike (P6K1504-MS1)	Sou	rce: 6K14002	2-09	Prepared: 1	11/14/16 A	nalyzed: 11	/15/16			
C6-C12	1030	26.6	mg/kg dry	1060	24.4	94.1	75-125			
>C12-C28	1040	26.6	M	1060	ND	98.0	75-125			
Surrogate: 1-Chlorooctane	111	WARE EXAMPLE AND	и	106		104	70-130			
Surrogate: o-Terphenyl	51.8		R	53.2		97.4	70-130			
Matrix Spike Dup (P6K1504-MSD1)	Sou	rce: 6K14002	2-09	Prepared: 1	11/14/16 A	nalyzed: 11	1/15/16			
C6-C12	1040	26.6	mg/kg dry	1060	24.4	95.5	75-125	1.44	20	
>C12-C28	1070	26,6	FF	1060	ND	101	75-125	2.51	20	
Surrogate: 1-Chlorooctane	114	Pet Parko de Les	HAT THURSTOWN	106	R FEE CLES HAVE	107	70-130		manas: s m	
Surrogate: o-Terphenyl	48.2		ü	53.2		90.7	70-130			

Duplicate

Dup

Project: Nash Draw Battery #9

Project Number: 11-0108-03

P.O. Box 50685 Midland TX, 79710

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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Table 10 25 Table 10 Miles		Vê x v	
Report Approved By:	275000000000000000000000000000000000000	Da	te: 11/15/2016

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.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Fax: (432) 687-0456

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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 #9
Project Number: 16-0108-03
Location: New Mexico

Lab Order Number: 6K21001



NELAP/TCEQ # T104704156-13-3

Report Date: 11/22/16

Project: XTO Nash Draw Site #9

P.O. Box 50685

Project Number: 16-0108-03

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-03-01-E3	6K21001-01	Soil	11/18/16 08:50	11-21-2016 09:30
DP-03-01-N5	6K21001-02	Soil	11/18/16 08:33	11-21-2016 09:30
DP-03-01-S3	6K21001-03	Soil	11/18/16 08:30	11-21-2016 09:30
DP-03-02-E4	6K21001-04	Soil	11/18/16 10:00	11-21-2016 09:30
DP-03-05-W4	6K21001-05	Soil	11/18/16 14:15	11-21-2016 09:30
DP-03-05-S4	6K21001-06	Soil	11/18/16 14:20	11-21-2016 09:30
DP-03-05-E4	6K21001-07	Soil	11/18/16 14:25	11-21-2016 09:30

P.O. Box 50685 Midland TX, 79710 Project: XTO Nash Draw Site #9

Project Number: 16-0108-03 Project Manager: Mark Larson Fax: (432) 687-0456

#### DP-03-01-E3 6K21001-01 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perm	ian Basin E	Environme	ntal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Method	\$		_approve a contract		//////////////////////////////////////	<u></u>	15521	
% Moisture	11.0	0,1	%	ï	P6K2201	11/22/16	11/22/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 I	by EPA Method 80	15M							
C6-C12	ND	28.1	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70	130	P6K2202	11/21/16	11/21/16	TPH 8015M	2018/2010/09/09 00 0000
Surrogate: o-Terphenyl		138 %	70-1	130	P6K2202	11/21/16	11/21/16	TPH 8015M	S-GO
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	11/21/16	11/21/16	calc	

Project: XTO Nash Draw Site #9

P.O. Box 50685

Project Number: 16-0108-03

Fax: (432) 687-0456

Midland TX, 79710

Total Petroleum Hydrocarbon C6-C35

Project Manager: Mark Larson

#### DP-03-01-N5 6K21001-02 (Soil)

1000	www.manada	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Permi	an Basin E	Invironmer	ıtal Lab, l	L.P.				
General Chemistry Parameters by	EPA / Standard Methods								
% Moisture	9.0	0.1	%	113	P6K2201	11/22/16	11/22/16	% calculation	
Total Petroleum Hydrocarbons Co	6-C35 by EPA Method 801	5M	1670 1970			NA MARKATA	Banda sostoria - Jamaha	te let 1979	ale skipe de
C6-C12	ND	27.5	mg/kg dry	ij.	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	4	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	( <b>1</b> )	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.3 %	70-1	30	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: o-Terphenyl		99.3 %	70-1	20	P6K2202	11/21/16	11/21/16	TPH 8015M	

27.5 mg/kg dry

[CALC]

11/21/16

11/21/16

ND

Total Petroleum Hydrocarbon C6-C35

Project: XTO Nash Draw Site #9

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-03

Fax: (432) 687-0456

Project Manager: Mark Larson

DP-03-01-S3 6K21001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Permia	Basin E	Invironmen	tal Lab, l	L.P,				
General Chemistry Parameters by	EPA / Standard Methods								
% Moisture	12.0	0.1	%	1.	P6K2201	11/22/16	11/22/16	% calculation	
Total Petroleum Hydrocarbons C6	-C35 by EPA Method 8015	M	- de	er /otelswich	T. N Makeda I	- 15c			
C6-C12	ND	28.4	mg/kg dry	9	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C28-C35	ND	28.4	mg∕kg dry		P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.2 %	70-1.	30	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: o-Terphenyl		101%	70-1.	30	P6K2202	11/21/16	11/21/16	TPH 8015M	

28.4 mg/kg dry

[CALC]

11/21/16

11/21/16

ND

Project: XTO Nash Draw Site #9

P.O. Box 50685

Project Number: 16-0108-03

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

#### DP-03-02-E4 6K21001-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perm	iian Basin F	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Method	S	78-17 (1000/1-100-1-100)			Mariana an	76 100		
% Moisture	12.0	0.1	%	ħ.	P6K2201	11/22/16	11/22/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 I	oy EPA Method 80	15M	en Urri er liken ell 1855 è li hyer bida bela ba	.85			9.500003. as	en de la companya de	SES March Transfel and
C6-C12	ND	28.4	mg/kg dry	ď.	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	T	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C28-C35	ND	28.4	mg∕kg dry	16	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-1.	80	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: o-Terphenyl		141 %	70-13	80	P6K2202	11/21/16	11/21/16	TPH 8015M	S-G
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	JU	(CALC)	11/21/16	11/21/16	calc	

8

Project: XTO Nash Draw Site #9

P.O. Box 50685

Project Number: 16-0108-03

Fax: (432) 687-0456

Midland TX, 79710

Project Manager: Mark Larson

DP-03-05-W4 6K21001-05 (Soil)

		a managha an an an		The state of the s					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmei	ntal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Method	is	1000 10000000						***************************************
% Moisture	8.0	0.1	%	1	P6K2201	11/22/16	11/22/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	27.2	mg/kg dry	P	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: 1-Chlorooctane		126 %	70-1	30	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: o-Terphenyl		145%	70-1	30	P6K2202	11/21/16	11/21/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/21/16	11/21/16	calc	

Project: XTO Nash Draw Site #9

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-03

Project Manager: Mark Larson

DP-03-05-S4 6K21001-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	ian Basin E	Invironmen	tal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Method	ls	F7117000000	Accepted a Secretar Program Control					
% Moisture	9.0	0.1	%	Ė	P6K2201	11/22/16	11/22/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 86	)15M	red na til ras en Gellige H		NAMES OF THE OWNERS		na nii na a	4694471444	4:
C6-C12	ND	27.5	mg/kg dry	Ĺ	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-1	30	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: o-Terphenyl		143 %	70-1	30	P6K2202	11/21/16	11/21/16	TPH 8015M	S-G
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	ř.	[CALC]	11/21/16	11/21/16	calc	

Total Petroleum Hydrocarbon C6-C35

P.O. Box 50685

Midland TX, 79710

Project: XTO Nash Draw Site #9

Project Number: 16-0108-03 Project Manager: Mark Larson

Fax: (432) 687-0456

#### DP-03-05-E4 6K21001-07 (Soil)

			markana Nama						
Analyte	Result	Reporting Limit	Talka	Physica	Baich	D	Analyzed	Method	Na
Anatyte	Result	Limit	Units	Dilution	Baich	Prepared	Anaiyzed	ivicinoa	No
	Permis	n Basin F	nvironme	ıtal Lab, l	L.P.				
General Chemistry Parameters by	y EPA / Standard Methods	Victoria Antario de Sistema	······						
% Moisture	8.0	0.1	%	ĵ.	P6K2201	11/22/16	11/22/16	% calculation	
Total Petroleum Hydrocarbons Co	6-C35 by EPA Method 801:	5M							
C6-C12	ND	27.2	mg/kg dry	1	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	ì	P6K2202	11/21/16	11/21/16	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1.	P6K2202	11/21/16	11/21/16	TPH 8015M	usu (Arten ti souranica
Surrogate: 1-Chlorooctane	nantautautautaukkaukka kampila kalain ka	87.5 %	70-1	30	P6K2202	11/21/16	11/21/16	TPH 8015M	
Surrogate: o-Terphenyl		99.7 %	70-1	30	P6K2202	11/21/16	11/21/16	TPH 8015M	

27.2 mg/kg dry

1

[CALC]

11/21/16

11/21/16

calc

ND

Project: XTO Nash Draw Site #9

P.O. Box 50685

Project Number: 16-0108-03

Fax: (432) 687-0456

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
Batch P6K2201 - *** DEFAULT PREP ***							907 01 WOMAN	. 100. 100.00. 000.00		
Blank (P6K2201-BLK1)	Decrease concentration construction and the con-	New Processing Service Control of		Prepared &	k Analyzed:	11/22/16			CONTRACTOR TO STATE OF THE STAT	annen versensessen
% Moisture	ND	0.1	%			en e	**************************************			
Duplicate (P6K2201-DUP1)	Sou	rce: 6K18011-	09	Prepared &	k Analyzed:	11/22/16	200 - 200 - 20			
% Moisture	12.0	0.1	%	MARINE MARINE SERVICION MARINE	12.0		autorius .	0.00	20	

P.O. Box 50685 Midland TX, 79710 Project: XTO Nash Draw Site #9

Project Number: 16-0108-03 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 P6K2202 - TX 1005	alexistantino ( )									
Blank (P6K2202-BLK1)				Prepared &	& Analyzed:	11/21/16				
C6-C12	ND	25.0	mg/kg wet		***************************************			**************************************		
>C12-C28	ND	25.0	ij							
>C28-C35	NÐ	25.0	Ø.							
Surrogate: 1-Chlorooctane	114		,,	100	NAMES OF COMMENSATIONS	114	70-130			
Surrogate: o-Terphenyl	64.2		"	50.0		128	70-130			
LCS (P6K2202-BS1)		.oui ui		Prepared &	& Analyzed:	11/21/16				
C6-C12	883	25.0	mg/kg wet	1000		88.3	75-125			
>C12-C28	991	25.0	н	1000		99.1	75-125			
Surrogate: 1-Chlorooctane	127		u	100		127	70-130			
Surrogate: o-Terphenyl	69.2		Ü	50.0		138	70-130			S-G0
LCS Dup (P6K2202-BSD1)				Prepared &	& Analyzed:	11/21/16				
C6-C12	867	25.0	mg/kg wet	1000	**************************************	86.7	75-125	1.83	20	
>C12-C28	968	25.0	251	1000		96.8	75-125	2.33	20	
Surrogate: 1-Chlorooctane	126	destrucción de 1,2	"	100	ACTOR OF COURSE	126	70-130	15 (1 )		
Surrogate: o-Terphenyl	60.4		u	50.0		121	70-130			

Larson & Associates, Inc. P.O. Box 50685 Project: XTO Nash Draw Site #9

Fax: (432) 687-0456

P.O. Box 50085 Midland TX, 79710 Project Number: 16-0108-03 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.
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

		g ger sid di		
Report Approved By:	520 y		Date:	11/22/2016

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.

								2	~6	· (	٧-	١	'n	<u>~</u>									***************************************	7	
RELINQUISHED BY:(Signature)	RELINQUISHED BY:(Signature)	May Co	NOTAL MOUED BY		0 10			DY-03-03-E4	I			-	QI'		DP-03-01-E3	Field Sample I.D.	MST/NM	Time zone/State:	<u> </u>	reports	Data Reported to:		\ arson &		
(Signature)	Signature)		Signature)					11/18	11.0	X1/11	W (%)	31/1/8	81/11	31/11	81111	Lab # Date				S=SOIL P=P W=WATER "SL=1		S, Inc.			(m)
1777/1097:50	DATE/TIME	11/21/16 930	.DATE/TIME					17:25			S   51:41	10:00	8:30 5	8:33 S	8:50 5	Time Matrix			OT=OTHER	P=PAINT SL=SLUDGE					100/ HON
	KECHIVEU								-			  -  -	_		-	# of	O <sub>3</sub>	ainers		PRESE		432-687-0901	507 N. Marienfeld, Ste.		
RECEIVED BY: (Signature)	RECEIVED BT. (Signature)	V. (Cionohira)	RECEIVED BY: (Signature)						Ϋ́ Χ	X X	X	X	X	×	× ×	UN	PRES	NaO SERVE	ED	PRESERVATION		7-0901	nfeld, Ste. 200		
	1D,	NO	nı	1000					X	XX	X	X	XX	X ×	X	100	INE N	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0050	Dir lose :		PROJECT LOC	PO #	DATE: 11/21	
OTHER []	2 DAY X	NORMAL D	TURN AROUND TIME													*/\&\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				18/1	# 16-010		12016	
☐ CARRIER BILL#_	CUSTODY SEALS -	RECEIVING TEMP?	LABORATORY USE ONLY:													\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			\$ 0 S6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CID VOC	9/6/	į	$\tilde{\tau}$		오
L#	LS - CI BROKEN WINTACT		USE ONLY:													70/		ANALEN CO ANIC	OSTORIOR OF O	CLOVO SERVICIO DI SARVO DI SARVO		ECTOR:	COCHO DI STA	PAGE	CHAIN-OF-CUS
	NITACT INOTUSED	THERM #:									500					- 11	FIELD NOTES			Kalini		WichaelCa	2   2   2   2   2   2   2   2   2   2	GE 1 OF 1	CUSIOL
	SED																			1/2	_	Pa	age 1	3 of	13

Appendix C

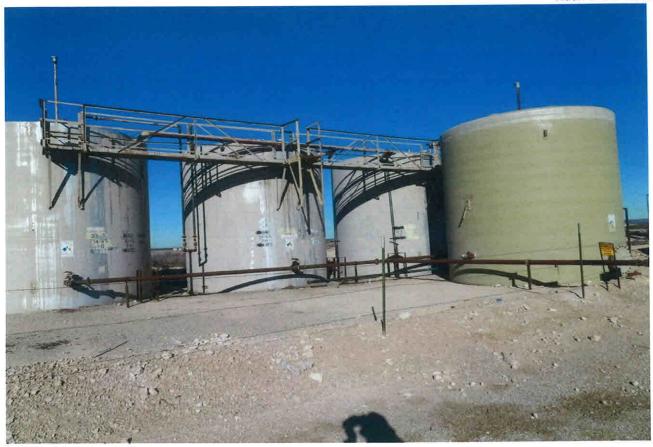
Photographs



Location Sign



Location Viewing Northwest Prior to Remediation, February 4, 2016



Location Viewing East Prior to Remediation, February 4, 2016



Initial Excavation at DP-03-01 and DP-03-02 Viewing South, November 9, 2016



Excavation (1 ft.) at DP-03-04 Viewing West, November 9, 2016



Initial Excavation at DP-03-05 Viewing South, November 10, 2016



Expanded Excavation at DP-03-02 and DP-03-01 Viewing West, November 22, 2016



Expanded Excavation at DP-03-05 Viewing North, November 22, 2016



Completed Remediation Viewing East, December 15, 2016



Completed Remediation Viewing East, December 15, 2016



Completed Remediation Viewing South, December 15, 2016

### Appendix D

**Waste Manifests** 

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116	180	I. PA	GEOF_	2. TRAIL	ER NO.		
-	3. COMPANY NAME	4. ADDI	RESS		Yell	al T	5. P	ICK-UP DATE	1		
G	PHONE NO.	CITY		STATE			ZIP 6. T	NRCC I.D. NO			
E				- Cital							
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		11		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	a						1,1/10	Zerati i		THE O	
	b. //									7 57	
E	c. (5 May 1 )										
	d.										
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	7		Since of	Jane 1	115.0		13. WASTE P	POEILE N	0	
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:							15, WASTE F	KOFILLIA		
A	14. IN CA	SE OF	EMEDO	ENCV	OR SPIL	LCO	NTACT				
Т	NAME	PHON		ILINC I	OK SI IL	L, CO	HACI	24-HOUR	EMERGE	NCY NO.	
	CENERATORIS CERTIFICATION										
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled.	and are in a	Il respects	in proper co	ndition fo	or transport	by highway acc	cording to a	pplicable	
R	PRINTED/TYPED NAME			SIGNAT	URE		11.5			DATE	
		Neo's		ALL			**************************************				
T R	16. TRANSPORTER (1)			17.		T	RANSPO	ORTER (2)			
A	NAME:			NAME	7						
N S	TEXAS I.D. NO.				S I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:			1	SE OF EMP		Y CONTA	CT:			
R T	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of material		GENCY PH RANSPO		(2): Ackn	owledgment of	receipt of r	naterial	
E	PRINTED/TYPED NAME			PRINT	ED/TYPED	NAME			(Marie)	all man in	
R	SIGNATURE	Dim		OVO)					DATE		
	SIGNATURE	DATE	RESS:	SIGN	ATURE			PHONE			
	Lea Land, LLC	ADD		e Mark	er 64, U.	S. Hw	y 62/18			87-4048	
D F I A		30 1	Miles E	ast of Ca	arlsba	d, NM					
S C P I O L	PERMIT NO. WM-01-035 - New Mex		20, CON	IMENTS							
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		: I Hereby	certify tha	t the above of	lescribed	l wastes we	ere delivered to this facility, that the			
LY	AUTHORIZED SIGNATURE	21	Albania Facility	CELI	. NO.		DAI	E		IME	
				The same of							

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116181	1. PA	GEOF_	2. TRAIL	ER NO.	
C	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE		
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO		
E									74-6
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:	rige.		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N		TE A				NE I		THE .	
	b.								
E	C.						6 1 14		
	d. 41 41 42 102								
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:			Annual Street			13. WASTE I	ROFILE N	0,
A									
				GENCY OR SPIL	L, CO	NTACT			
T	NAME	PHON	VE NO				24-HOUF	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION; shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	and are in	all respects in proper co	ndition f	or transport	by highway ac	cording to a	pplicable
R	PRINTED/TYPED NAME			SIGNATURE					DATE
T	16. TRANSPORTER (1)	1		17.	T	RANSPO	ORTER (2)		M. Carrie
R	NAME:			NAME:					
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMI	ERGENC	i:			
O R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of materia	EMERGENCY PH		(2): Ackn	owledgment of	receipt of	material
T E	PRINTED/TYPED NAME			PRINTED/TYPEI					
R	TRUVIED TITED NAME			_ PRINTED/TIPE	D NAME				
y.	SIGNATURE	DATE		_ SIGNATURE				DATE	
174	Lea Land, LLC	ADD	ORESS:	ile Marker 64-LI	S. Hv	vv 62/18	PHONE		87-4048
D F I A	Dua Dana, EDO	file Marker 64, U.S. Hwy 62/180, 575-887-4048 0 Miles East of Carlsbad, NM							
S C P I	PERMIT NO. WM-01-035 - New Mex	ico		20. COMMENTS					
O L S I A T	21 DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		N: I Hereb	y certify that the above	described	l wastes we	re delivered to	this facility	, that the
LY	AUTHORIZED SIGNATURE	CELL NO.		DAT	E		IME 40		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	EST	NO	116182		1. PAG	GEOF	2. TR	AILER NO.	
G	3. COMPANY NAME	4. ADDI	RESS		V		5.	PICK-UP DA	TE	
	PHONE NO.	CITY		STATE			ZIP 6.	INRCC LD.	NO.	
E		Way (								
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:				8. CON No.	TAINERS Type	9, TOTAL	Company of the Compan	11. TEXAS WASTE ID #
N							MEN			
	be, we will be a second of the									Rent
E									Fun	
R	4.4.41 4.4.29	13	X.	rate day						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:							13. WAST	E PROFILE	NO.
A		File							Var.	
100	IA. IN CA	SE OF		ENCY OR S	PILI	L, CO	NTACT	24.146	UR EMERG	ENCY NO
T		FHON	E NO					24110	OK EINEKO	and I play
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled.	and are in al	l respects in prop	er con	dition fo	or transpo	rt by highway	according to	applicable
R	PRINTED/TYPED NAME			SIGNATURE						DATE
Т	16. TRANSPORTER (1)	1111	Will T	1.7.		T	RANSP	ORTER (	2)	A STATE OF
R A	NAME:			NAME:						
N S	TEXAS I.D. NO.			TEXAS I.D. N	NO.					
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF	EME	RGENC	Y CONT	ACT:		
	EMERGENCY PHONE:			EMERGENC					8 5 7 7	e wax
T	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANS			200		of receipt of	
R	PRINTED/TYPED NAME			PRINTED/TY	YPED	NAME				
S	SIGNATURE	DATE		SIGNATURE		NA.			DATE	
1 2	Las Las I II C	ADD	RESS:	111	* * *	C II	(01)	РНО		007 4040
D F	Lea Land, LLC	1 1 100		Marker 64 Ailes East o	The beautiful of		of the same of	80,	3/3-6	387-4048
PI	PERMIT NO.  WM-01-035 - New Mex	ico		20. COMMEN						W WALL
O L S I A T	21 DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION vastes.	N: 1 Hereby	certify that the ab	ove d	escribed	wastes y	ere delivered	to this facili	y, that the
LY	AUTHORIZED SIGNATURE			CELL NO.			D	TE		TIME

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116183	1. PA	JEOF_	2. TRAIL	ER NO.	XXLO	
	3. COMPANY NAME	4. ADDRE	SS			5. P	ICK-UP DATE			
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO			
10		Cara		SIAIL						
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			The same of the sa	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N		95, 1			No.	Type	QUARTITI	W C TOIL	MINUTE ID	
	b.		A. V.							
E	c.								- N. C. S. L. D.	
R	d. 44520 4316	O	450	Day Devent						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE I	ROFILEN	0.	
A										
	14. IN CA	SE OF I		ENCY OR SPIL	L, CO	NTACT	24-HOUI	R EMERGE	NCY NO.	
T										
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an	I Hereby de	eclare that	the contents of this co	onsignme	nt are fully	and accurately	described a	above by proper	
U	international and national government regulations, in	icluding app	olicable sta	te regulations, and are	the same	materials	previously appr	roved by LI	A LAND, LLC	
R	PRINTED/TYPED NAME		4.0	SIGNATURE		1			DATE	
		A								
T R	16. TRANSPORTER (1)			17.	T	RANSPO	ORTER (2)			
A	NAME:			NAME:						
N S	TEXAS I.D. NO,			TEXAS I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMI	ERGENC	Y CONTA	CT:			
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment	of receipt o	f material	19. TRANSPO		(2): Ackn	owledgment of	receipt of	material	
T E	PRINTED/TYPED NAME			PRINTED/TYPE						
R	TRIVILD TITED WAVE	700		FRENTED/TTTE	D MAINIL	LE P				
	SIGNATURE V	DATE		SIGNATURE				DATE		
	Lea Land, LLC	ADDR		a Markar 64 I	C H	ou 62/1	PHONE		87-4048	
D F	Lea Land, LLC		Tile Marker 64, U.S. Hwy 62/180, 575-887-4048  O Miles East of Carlsbad, NM							
I A S C	PERMIT NO.		20. COMMENTS							
P I O L	WM-01-035 - New Mex									
SIAT	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		I Hereby	certify that the above	describe	d wastes we	ere delivered to	this facilit	y, that the	
L Y	AUTHORIZED SIGNATURE	444		CELL NO.		DA	TE		ПМЕ	
	Landa IVIII	10.7				11-8			Dilli	

MILE MARKER #64 US HWY 62/180 + 30 MILES EAST OF CARLSBAD, NM + PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116267	1. PA	GEOF_	2. TRAIL	ER NO.	the Was	
C	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE			
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO			
E		. Prince								
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D;			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	am chantle and representation				I, ite					
	b.									
E										
D	d. // /	N.								
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE F	ROFILE N	O	
A	Harris 10									
		SE OI	EMER	GENCY OR SPIL	L, CO	NTACT	A MILE		Total Control	
T	NAME	PHON	NE NO				24-HOUR	EMERGE	NCY NO.	
	15.GENERATOR'S CERTIFICATION:	1 Hereby	declare th	at the contents of this of	onsignme	nt are fully	and accurately	described a	ibove by proper	
0	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	l, and are in	all respects in proper co	ondition f	or transport	by highway ac	cording to a	pplicable	
R	PRINTED/TYPED NAME			SIGNATURE					DATE	
					No.	NO.				
T R	16. TRANSPORTER (1)			17.	T	RANSPO	ORTER (2)			
A	NAME:			NAME:						
N S	TEXAS I.D. NO.			TEXAS I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EM		Y CONTA	CT:			
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment (			EMERGENCY PI		(2): Ackn	owledgment of	receipt of	naterial	
E	PRINTED/TYPED NAME	14/2	Way.	PRINTED/TYPE	D NAME	ar yw.		e Branch	#1.16.61 TO	
R	SIGNATURE	DATE		SIGNATURE				DATE		
			ORESS:				PHONE			
D E	Lea Land, LLC		M	ile Marker 64, U			30,	575-8	87-4048	
D F I A	DESCRIPTION	Miles East of C	arlsba	d, NM						
S C P I	WM-01-035 - New Mex	cico		20. COMMENTS						
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		N: I Hereb	y certify that the above	described	l wastes we	re delivered to	this facility	, that the	
L Y	AUTHORIZED SIGNATURE			CELL NO.	27-15	DAT	Е	h	TME	
		H	2		and the second of the second o					

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

#### LEA LAND, LLC

NON	I-HAZARDOUS WASTE MANIF	EST NO		16271	1. PAG	GE_OF_	2. TRAIL	ER NO.	3/2
	3. COMPANY NAME	4. ADDRESS				5. P	ICK-UP DATE		
G	Participation of the Philipse Part	Marie Company					DIRECTE NO		thirt is
	PHONE NO.	CITY		STATE		ZIP 6, T	NRCC LD. NO		NAME OF
E		Saltania.			8. CON	TAINERS	9. TOTAL	10. UNIT	11. TEXAS
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			No.	Туре	QUANTITY	Wt/Vol.	WASTE ID#
N	Action (See 1912) I design the management of the second								100
	b.								EUY: T
E	C.								
	d. A.)								
R	A1,510				T.S.		ALC: WEN		
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE I	ROFILEN	0.
A		APRIL DE			First.			414	
				ENCY OR SPIL	L, CO	NTACT		, p. mp.cr	VCV VO
T	NAME	PHONE NO	)				24-HOUE	REMERGE	NCY NO.
	15.GENERATOR'S CERTIFICATION:	I Harabu daala	en that	the contents of this as	neianma	nt are fully	and accurately	described	above by proper
0	shipping name and are classified packed marked an	d labeled and	are in al	respects in proper co	ondition for	or transpor	by highway ac	cording to a	pplicable
	international and national government regulations, in	icluding applies	able sta		the same	materials	previously appl	oved by Li	
R	PRINTED/TYPED NAME			SIGNATURE					DATE
					(10)	DANICH	DEFER (2)		
T R	16. TRANSPORTER (1)			17.			ORTER (2)		
A	NAME:			NAME:					
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					
P	IN CASE OF EMERGENCY CONTACT.			IN CASE OF EMI	ERGENC	Y CONTA	CT:		
O R	EMERGENCY PHONE:			EMERGENCY PI		(8)			
T	18. TRANSPORTER (1): Acknowledgment			19. TRANSPO	RIER	(2): Acki	lowledgment of	receipt of	material
E R	PRINTED/TYPED NAME 150 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V	KMAV	6 14	PRINTED/TYPE	D NAME				
S	SIGNATURE	DATE		SIGNATURE				DATE	
		ADDRESS					PHONE		
	Lea Land, LLC	Mobile		Marker 64, U	S. Hv	vy 62/1	A THE STATE OF THE STATE OF		87-4048
DF		TO SEAL WAY		Ailes East of C				337	
S C	PERMIT NO.	-		20. COMMENTS	-				
P I	WM-01-035 - New Mex								
S I 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above des							ere delivered to	this facilit	y, that the
A T	facility is authorized and permitted to receive such	wastes.	-	The state of the state of					Land Line
LY	AUTHORIZED SIGNATURE			CELL NO.		DA	ΓE	X	IME

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	I-HAZARDOUS WASTE MANIF	EST	NO	116273	1. PAG	GE_OF	-	2. TRAIL	ER NO.	12
et su	3. COMPANY NAME	4. ADD	RESS			5.	PICK-	UP DATE		
G	PHONE NO.	Course		CTATE		ZIP 6.	TNIDE	C LD. NO		
	PHONE NO.	CITY		STATE		ZIP	TNICC	C LD. NO		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON	TAINERS	1000	TOTAL	10. UNIT	11. TEXAS
					No:	Туре	QU	ANTITY	Wt/Vol.	WASTE ID#
N								The same		
E	b.									
	C.									
R	d. (44)									
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		55 - LL	of the latter of	THE.	May 1	13.	WASTE P	ROFILE N	O,
A										TWILLING.
			-	GENCY OR SPIL	L, CO	NTACT			FLADOR	NOW NO
T	NAME	PHO	NE NO					24-HOUR	EMERGE	NCY NO.
	15.GENERATOR'S CERTIFICATION:	l Hereb	y declare tha	t the contents of this co	nsignme	nt are full	y and	accurately	described a	above by proper
0	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled cluding	d, and are in applicable si	all respects in proper co ate regulations, and are	ndition f the same	or transpo e material	rt by l s prev	tighway ac iously appr	cording to a oved by LI	A LAND, LLC
R	PRINTED/TYPED NAME	113		SIGNATURE	e na				HIA	DATE
				Service Control						
T	16. TRANSPORTER (1)		Temps	17.	Т	RANSP	ORT	TER (2)	E William	
R A	NAME:			NAME:						atriple of
N S	TEXAS I.D. NO.			TEXAS LD, NO.						200
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMI	ERGENC	Y CONT	ACT:			
O R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of		V V V V V	EMERGENCY PI 19. TRANSPO		(2) 4 4 -1	asiv t	downst of	receipt of	material
T E		of receip	ot of material				HOWIC	agment bi	receipt of	i e e i
R	PRINTED/TYPED NAME	- 10		PRINTED/TYPEI	O NAME		12	172		
S	SIGNATURE	DATE		SIGNATURE	Signal	UP N		LAUN	DATE	
		ADI	DRESS:					PHONE		07.4040
D F	Lea Land, LLC	777		le Marker 64, U Miles East of C		7	80,	117	5/5-8	87-4048
I A S C	PERMIT NO.		30	20. COMMENTS	arisua	d, INIVI			Trans.	TEN COLOR
P I	WM-01-035 - New Mex	cico		- Inches Sections						
O L S I		reby certify that the above described wastes were delivered to this facility, that the								
A T	facility is authorized and permitted to receive such v	wastes.	للجراء	The Day		3 11 13				
LY	AUTHORIZED SIGNATURE			CELL NO.		DA	TE			TIME
						19		A ANDRO		

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON	N-HAZARDOUS WASTE MANIF	)	1162/4   1. PAGE_OF_   2. TRAILER NO.					777					
	3. COMPANY NAME	4. ADDRESS	S		100	5. P	ICK-UP DATE						
G		Citiza e ella						4233	1970				
	PHONE NO.	CITY		STATE	7	ZIP 6. T	NRCC I.D. NO	Mary.	100				
E			4		Is con	TAINERS	9. TOTAL	10. UNIT	11. TEXAS				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			No.	Туре	QUANTITY	Wt/Vol.	WASTE ID#				
N	and significant travelle bearing to the												
	b.		144					Him					
E	c. (2)		-		1 -01		CHI CHI CHI						
	d.		17,1										
R	**-4, 40			NIA ALIAN	117				Licht L				
100	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE I	ROFILE N	О.				
A								14.7					
				ENCY OR SPIL	L, CO	NTACT		ro erm or	VOV. NO				
T	NAME	PHONE N	O				24-HOUF	EMERGE	NCY NO.				
	15 GENERATOR'S CERTIFICATION:	I Haraby daal	lace that	ha contents of this or	weignme	u are fully	and accurately	described a	thove by proper				
0	shipping name and are classified, packed, marked, an	d labeled and	are in al	hat the contents of this consignment are fully and accurately described above in all respects in proper condition for transport by highway according to applie state regulations, and are the same materials previously approved by LEA La									
-11		ictualing appro	cable stat		the same	materials	previously appr	DATE					
R	PRINTED/TYPED NAME			SIGNATURE					DATE				
Т	16. TRANSPORTER (1)			17.	TT	PANSPO	ORTER (2)						
R													
A N	NAME:		The state of	NAME:									
S	TEXAS I.D. NO.			TEXAS I.D. NO.									
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMI	ERGENC	Y CONTA	CT:						
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of		Similary	EMERGENCY PL 19. TRANSPO		(2) Anlan	oveladement of	receipt of	material				
T E		or receipt or n	nateriai	19. TRAINSFO	KIEK	(Z): ACKII	owiedginein of	receipt of	naterial				
R	PRINTED/TYPED NAME			PRINTED/TYPEI	D NAME								
S	SIGNATURE	DATE	4014	SIGNATURE	nishir.	on tool in	13.11150	DATE	Marin I				
		ADDRES	SS:				PHONE						
n F	Lea Land, LLC		Mile	Marker 64, U	S. Hw	y 62/18	80,	575-8	87-4048				
D F I A			30 N	Ailes East of C	arlsba	d, NM							
S C	PERMIT NO. WM-01-035 - New Mex	riao.		20. COMMENTS									
P I O L													
SI	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such a	Hereby o	lereby certify that the above described wastes were delivered to this facility, that the										
A T L Y	AUTHORIZED SIGNATURE		CELL NO.		DAT	E	1	TME					
	A post of the state of the same			CELLI TO.			Way war		A des				
	be a street of the street of t			0.000				LABOR DE					

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 + 30 MILES EAST OF CARLSBAD, NM + PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116168 1. PAGE_OF_ 2. TRAILER NO.								
	3. COMPANY NAME	4. ADD	RESS			5. P.	ICK-UP DATE		2/3			
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO					
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	a.				INOS	Type	QOANTITT		WISTE ID			
E	b.											
	d.		31.34									
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	20					13. WASTE P	ROFILE N	0.			
A			orași le						720-4			
T	14. IN CA		F EMERG NE NO	ENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO.			
o	15.GENERATOR'S CERTIFICATION; shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	and are in al	l respects in proper co	ndition fe	or transport	by highway acc	cording to a	pplicable			
R	PRINTED/TYPED NAME			SIGNATURE DATE								
T	16. TRANSPORTER (1)			17. TRANSPORTER (2)								
R	NAME:			NAME:								
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					ALCOHOL:			
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTAC	CT:					
O R	EMERGENCY PHONE: 18 TRANSPORTER (1): Acknowledgment of	C	6 11	EMERGENCY PH		(2). 1.1		marint of	notaile!			
T E			of material				owiedginent of	receipt of t	naterial			
R	PRINTED/TYPED NAME	0:		PRINTED/TYPEI	NAME							
S	SIGNATURE	DATE		SIGNATURE	21 25	1-004		DATE				
D F	Lea Land, LLC	ADD		Marker 64, U.			PHONE		87-4048			
IA			30 N	Ailes East of Ca	arlsba	d, NM						
S C P I O L	WM-01-035 - New Mex	tico		20. COMMENTS								
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		N: I Hereby	Hereby certify that the above described wastes were delivered to this facility, that the					, that the			
LY	AUTHORIZED SIGNATURE		77.1	CELL NO. DATE			Е	Т	IME			
				A STATE OF THE STA		10.31						

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	I-HAZARDOUS WASTE MANIF	NO	116169	2. TRAIL	RAILER NO.							
	3. COMPANY NAME	4. ADDI	RESS			5. P	ICK-UP DATE					
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO					
E							e Pia-A					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:	5187		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10, UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	a											
	b		4.64									
E	C. (1)											
R	d.											
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE F	ROFILE N	O			
A												
	14. IN CA			GENCY OR SPIL	L, CO	NTACT	24 110121	R EMERGE	NOV NO			
T	NAME	PHON	ENO				24911001	CEMERGE	NC I NO.			
o	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled.	and are in	all respects in proper co	cording to a	pplicable						
R	PRINTED/TYPED NAME			SIGNATURE DATE								
T	16. TRANSPORTER (1)	-	44.	17.	T	RANSPO	ORTER (2)					
R A	NAME:			NAME:								
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					atmid 1			
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	ERGENC	Y CONTA	CT:		The state of			
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment	of receipt	of material	EMERGENCY PE		(2): Ackn	owledgment of	receipt of i	naterial			
T E	PRINTED/TYPED NAME/			PRINTED/TYPEI								
R					, ru tivit							
	SIGNATURE	DATE		SIGNATURE			PHONE	DATE				
	Lea Land, LLC	ADD	RESS:	le Marker 64, U	S. Hv	vy 62/18	N. Charles		87-4048			
D F I A		-		Miles East of C		A Commence of the Commence of						
S C P I	PERMIT NO. WM-01-035 - New Mex	cico		20. COMMENTS								
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		N: I Hereby	I Hereby certify that the above described wastes were delivered to this facility, that the					, that the			
LY	AUTHORIZED SIGNATURE			CELL NO.		DAT	E/	q	IME			

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	EST	NO ]	116170 1. PAGE_OF_ 2. TRAILER NO.								
G	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE					
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO					
E								11				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	a.					<u> Lustin</u>						
	b.											
E	c.			ALC: NO								
R	d - 41-1075 PER - 1						The party					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				IN	4114	13. WASTE P	ROFILE N	O			
A					WY			Total V				
	14. IN CA		EMERGINE NO	ENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO.			
T		11101	12.09						12 thr			
o	shipping name and are classified, packed, marked, an	d labeled	and are in all	nat the contents of this consignment are fully and accurately described above by n all respects in proper condition for transport by highway according to applicab state regulations, and are the same materials previously approved by LEA LAN								
R	PRINTED/TYPED NAME			SIGNATURE DATE								
Т	16. TRANSPORTER (1)			17.	T	RANSPO	ORTER (2)					
R A	NAME:			NAME:								
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					No spirit			
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTA	CT:					
O R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	EMERGENCY PH		(2): Ackn	owledgment of	receipt of	naterial			
T E	PRINTED/TYPED NAME	1000		PRINTED/TYPE								
R			Tree of		ZAVANIL							
	SIGNATURE	DATE	nnege.	SIGNATURE			PHONE	DATE				
	Lea Land, LLC	ADL	oress: Mile	Marker 64, U.	S. Hw	y 62/18			87-4048			
D F I A			30 N	Ailes East of C	arlsba	d, NM	SA DEST					
S C P I O L	WM-01-035 - New Mex	ico		20. COMMENTS								
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	NO 1	116171 1. PAGE_OF_ 2. TRAILER NO.									
	3. COMPANY NAME	4. ADD	RESS	Section 1		5. P	ICK-UP DATE					
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO					
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o	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	and are in all	respects in proper co	ndition for	or transport	by highway ac	cording to a	pplicable			
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	NO	116172	1. PA	GE_OF_	2. TRAILER NO.						
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o	shipping name and are classified, packed, marked, an	id labeled	L and are in	that the contents of this consignment are fully and accurately described abo in all respects in proper condition for transport by highway according to app e state regulations, and are the same materials previously approved by LEA								
R	PRINTED/TYPED NAME			SIGNATURE					DATE			
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	116173	1. PA	GEOF_	_ 2. TRAILER NO.					
C	3. COMPANY NAME	4. ADDI	RESS			5. P	ICK-UP DATE					
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO					
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	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
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				GENCY OR SPIL	L, CO	NTACT			Mary Mary			
T	NAME	PHON	NE NO				24-HOUF	REMERGE	NCY NO.			
o	shipping name and are classified, packed, marked, an	d labeled	and are in	at the contents of this consignment are fully and accurately described above be all respects in proper condition for transport by highway according to applicat								
		cluding a	applicable :	state regulations, and are the same materials previously approved by LEA LANE								
R	PRINTED/TYPED NAME			SIGNATURE					DATE			
Т	16. TRANSPORTER (1)		100	17,	T	RANSPO	ORTER (2)					
R A	NAME:			NAME:								
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	Lea Land, LLC	ADD	RESS:	ile Marker 64, U	S Hv	vv 62/18	PHONE RO.		87-4048			
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	EST	NO	1161	.74	1. PA	GEOF_	OF 2. TRAILER NO.				
G	3. COMPANY NAME	4. ADDI	RESS				5. P	PICK-UP DATE				
6	PHONE NO.	CITY		STATE			ZIP 6. T	NRCC LD. NO	)			
E												
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:	14.			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11, TEXAS WASTE ID #		
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E	c. (gright the first of the contract of				000					E MARK		
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T	NAME	PHON	NE NO					24-HOUI	REMERGE	NCY NO.		
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

#### LEA LAND, LLC

NON	-HAZARDOUS WASTE MANIF	EST	NO	116175	1. PA	GE_OF_	2. TRAIL	ER NO.				
	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE		No.			
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC LD. NO					
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	12. COMMENTS OR SPECIAL INSTRUCTIONS:			PERMIT			13. WASTE P	ROFILE N	0.			
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Т	NAME		F EMER NE NO	GENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO.			
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R	PRINTED/TYPED NAME			SIGNATURE DATE:								
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s	SIGNATURE	DATE		SIGNATURE				DATE				
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MILE MARKER #64 US HWY 62/180 \* 30 MILES EAST OF CARLSBAD, NM \* PHONE (575) 887-4048

### LEA LAND, LLC

NON	N-HAZARDOUS WASTE MANIF	NO	1161/6 1, PAGE_OF_ 2. TRAILER NO.					TV C				
G	3. COMPANY NAME	4. ADDI	RESS	P. Salvara	915	5. P	ICK-UP DATE					
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO					
E		Lie ii										
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
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	b.											
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	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13, WASTE P	ROFILE N	0.			
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	14. IN CA	SE OF		RGENCY OR SPILL, CONTACT  24-HOUR EMERGENCY NO.								
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o	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	and are in al	respects in proper co	ndition f	or transport	by highway ac	cording to a	pplicable			
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	Lea Land, LLC	N.D.D		Marker 64, U.	S. Hv	vy 62/18	The state of the s		87-4048			
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LY	AUTHORIZED SIGNATURE			CELL NO.		DAT	E	T	IME			

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### LEA LAND, LLC

NON	I-HAZARDOUS WASTE MANIFES	116179	1. PAGE_OF 2. TRAILER NO.									
	3. COMPANY NAME 4. A	ADDRESS			5. P	ICK-UP DATE						
G	PHONE NO.	гү	STATE		ZIP 6. T	NRCC I.D. NO						
E	7, NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CON	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #				
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-	b. 4 - 21 ( )				THE		HIAI					
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T	NAME	HONE NO				24-HOUI	REMERGE	NCY NO.				
0	shipping name and are classified packed marked and la	beled and ar	e in all respects in proper co	nat the contents of this consignment are fully and accurately described above by prop n all respects in proper condition for transport by highway according to applicable state regulations, and are the same materials previously approved by LEA LAND, LL								
R	PRINTED/TYPED NAME		SIGNATURE									
T	16. TRANSPORTER (1)		17.	Т	RANSPO	ORTER (2)	19 192					
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	Lea Land, LLC	ADDRESS:	Mile Marker 64, U	IC H	vv 62/1	PHONE 80		87-4048				
D F	Lea Land, ELC	7	30 Miles East of C		A CONTRACTOR	00,	5750	07-30-10				
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L Y	AUTHORIZED SIGNATURE		CELL NO.		DA	TE		TIME				
			SE LINETIN									

# Appendix E Initial and Final C-141

#### NM OIL CONSERVATION

ARTESIA DISTRICT

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brozos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 8750

State of New Mexico
Energy Minerals and Natural Resources

SEP 07 2016

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 RECEIVED to appropriate District Office in RECEIVED ordance with 19.15.29 NMAC.

1220 S. St. Fra	ncis Dr., Santa	Fe, NM 87505	Anako anakoka o shekaka	Sa	ınta Fe	, NM 875	05		·		GENERAL	
	2000		Rele	ase Notific	ation	and Co	rrective A	ction	,			8.
DAB	1625	3329	86			OPERA?	ror		🛛 Initia	ıl Report		Final Report
Name of C	ompany: X	TO Energy,	Inc.				dley McMinn					
Address: 5	00 W. Illin	ois Ave., Su	ite 100, N	Aidland, TX 70	701	Telephone N	lo.: (432) 682-8	3873		Carrier and the N		~~~~
Facility Na	me: Nash	Draw Unit B	attery #9			Facility Typ	e: Tank Batter	y (Equip	ment Re	novea)		
Surface Ov	vner: Fede	ral		Mineral C	)wner:	Federal			API No	. 30-015-2	6991	
	-78-yc   K.			LOCA	ATION	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		lest Line	County:	Eddy	
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	1 2000			NAI	TURE	OF REL			· • • • • • • • • • • • • • • • • • • •	n	Nices	
Type of Rela	ease: Crude	Oil/Produced	Water			Volume of	Release: Unknow	wn	Volume	Recovered:	None	
Source of Re	elense: Spill	s				Date and I	lour of Occurren	ce		Hour of D	scovery	
		51 6				Unknown If YES, To	Whomp		07-20-20	16		
Was Immed	ibic iyotice (		Yes [	No 🛛 Not R	equired	11 1 25, 10	WHOTH					
By Whom?						Date and I	lour					
Was a Water	rcourse Read						olume Impacting	the Wate	ercourse.	randoord bearing in since under	72	
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Describe Ar Affected soi	en Affected I to be exce	and Cleanup and Cleanup and Cleanup	Action Ta onsite trea	ken.* stment or dispose	d offsite	at OCD appr	oved facility. Re	eler 10 ati	ached and	lytical data	summa	л <b>у</b> .
regulations a public health should their or the environment	all operators tor the envi operations l onment. In a	are required to ronment. The	o report a cocceptan adequatel OCD acce	e is true and com nd/or file certain ce of a C-141 rep y investigate and ptance of a C-141	release nort by the remediate	notifications one NMOCD rate contamination	and perform corre- narked as "Final ion that pose a the ve the operator o	ective ac Report" hreat to g if respons	does not re round was sibility for	eleases was elieve the o ter, surface compliance	perator ( water, h	of liability numan health
Signature:		رسس	lu	Mr.			OIL CO		1	DIVIS	ION	
Printed Nam	ie: Luke Wi	llioms				Approved b	y Environmental	apeciali	51: []	201		
Title: EH&	G CARTERIA.					Approval D	aic: 98	16	Expiration	n Date: N	1/A	7865
E-mail Add	ress: Lukc_\	Villiams@xtc	energy.co	om		Damadi	of Approval: ation per O.0	C.D. R	ules & (	Guldelin	<b>198</b>	
Date: 09-0	7-2016			one: (432) 683-8	873	SUBMIT	REMEDIAL	DNL	HUPUS	MUITO		
Attach Add	itional She	ets If Neces	sary			LATER	THAN: 10	lall	<u> </u>	_ ク	ND	-3876

#### Patterson, Heather, EMNRD

Mark Larson < Mark@laenvironmental.com> From: Sent:

Wednesday, September 07, 2016 4:54 PM

Patterson, Heather, EMNRD To: McMinn, Dudley; Williams, Luke Cc:

Re: Initial C-141s for XTO Energy, Inc., Nash Draw Unit Tank Batteries (8), Eddy County, Subject:

Initial C-141, XTO Energy, Inc., Nash Draw unit Battery 1 & 6, September 7, 2016.pdf; **Attachments:** 

> Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 10, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 9, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 15 & 33, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 24, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 36, September 7, 2016.pdf; Initial C-141, XTO Energy, Inc., Nash Draw Unit Battery 19 & 34, September 7, 2016.pdf; Initial C-141, XTO

Energy, Inc., Nash Draw Unit Battery 38, September 7, 2016.pdf

#### Dear Heather,

The attached C-141s and supporting documentation are submitted on behalf of XTO Energy, Inc., for eight (8) tank batteries located in the Nash Draw Unit, Eddy County, New Mexico. Please contact Dudley McMinn with XTO Energy, Inc. at (432) 682-8873 or me if you have guestions. Respectfully,

Mark J. Larson

From: Mark Larson

Sent: Wednesday, September 07, 2016 10:59 AM

To: 'heather.patterson@state.nm.us'

Cc: 'McMinn, Dudley'; 'Luke\_Williams@xtoenergy.com'

Subject: Re: Meeting Confirmation

#### Dear Heather,

This message is to confirm our meeting at your office on September 15, 2016 at 10:00 AM (Mountain Time). Please contact me if you have questions. See you then! Respectfully,

Mark J. Larson, P.G. President/Sr. Project Manager 507 N. Marienfeld St., Suite 205 Midland, Texas 79701 (432) 687-0901 (O) (432) 556-8656 (C)



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#### State of New Mexico Energy Minerals and Natural Resources

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

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action** Final Report **OPERATOR** Initial Report Contact: Dudley McMinn Name of Company: XTO Energy, Inc. Address: 500 W. Illinois Ave., Suite 100, Midland, TX 70701 Telephone No.: (432) 682-8873 Facility Type: Tank Battery (Equipment Removed) Facility Name: Nash Draw Unit Battery #9 API No. 30-015-26991 Mineral Owner: Federal Surface Owner: Federal LOCATION OF RELEASE Feet from the East/West Line County: Eddy North/South Line Feet from the Unit Letter Section Township Range 2210 Fast 29E 860 North B 13 238 Latitude 32.309722 Longitude -103.936944 NATURE OF RELEASE Volume Recovered: None Volume of Release: Unknown Type of Release: Crude Oil/Produced Water Date and Hour of Discovery Date and Hour of Occurrence Source of Release: Spills 07-20-2016 Unknown If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required Date and Hour By Whom? If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Hydrocarbons and chloride 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.\* Soil was excavated to a maximum depth of 5 feet at DP-03-02 over an area measuring approximately 45 x 50 feet. Location DP-03-04 was excavated to a maximum depth of 2 feet over area measuring about 15 x 20 feet. Location DP-03-05 excavated to a maximum depth of 4 feet over area measuring about 35 x 50 feet Laboratory results confirmed BTEX and TPH below RRAL. The excavations were backfilled with caliche. Approximately 1,423 cubic yards of contaminated soil was disposed at Lea Land Landfill, LLC. 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 CONSERVATION DIVISION Signature: Approved by Environmental Specialist:

Approval Date:

Phone: (432) 683-8873

Conditions of Approval:

Expiration Date:

Attached

E-mail Address: Luke Williams@xtoenergy.com

Printed Name: Luke Williams

Title: EH&S Coordinator

Date: 03-23-2016

 <sup>\*</sup> Attach Additional Sheets If Necessary

District 1 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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

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P APPORTAGE SERVICES	VC TABLES SHARE SHARE SERVED SHEET STATES	Adviso cz zwo	OPERATOR					$\boxtimes$	Final Report				
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Address: 50 Facility Nat			Telephone No.: (432) 682-8873 Facility Type: Tank Battery (Equipment Removed)										
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Unit Letter Section Township Range Feet from the North						North Feet from the East/West 2210 East			County: Eddy				
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Type of Release: Crude Oil/Produced Water Volume of Release: Unknown Volume Recovered: None													
Type of Rele	ase: Crude	Volume of Release: Unknown Volume Recovered					vered: None						
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By Whom?						Date and Hour							
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							OIL CONSERVATION DIVISION						
Signature:													
Printed Name	e: Luke Will	Approved by Environmental Specialist: Bradford Billings											
Title: EH&S	Coordinato	Approval Date: 11/19/2019 Expiration				Date:							
E-mail Addre	ess: Luke_W	and a	Conditions of Approval:			Attached							
Date: 03-21 * Attach Addi		ts If Necess		ne: (432) 683-887	73								