# 2RP-3874 REMEDIATION REPORT Nash Draw Tank Battery #19 & #34

Eddy County, New Mexico

LAI Project No. 16-0108-07

March 27, 2017

Prepared for:

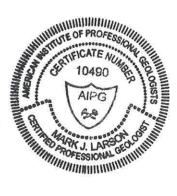
XTO Energy, Inc. 500 W. Illinois Ave., Suite 100 Midland, Texas 79707

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 #19 & #34 tank battery (Site). The Site is located in Unit J (NW/4, SE/4), Section 12, Township 23 South, Range 29 East in Eddy County, New Mexico. The geodetic position is North 32° 19′ 06.5650″ and West 103° 56′ 12.19027″. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

#### 1.1 Background

On June 22, 2016, LAI personnel used a Terraprobe direct-push rig to collect soil samples at eight (8) locations (DP-07-01 through DP-07-08). Soil samples were collected between ground surface and approximately four (4) feet below ground surface (bgs). A background sample was not collected due to close proximity to the playa lake (Salt Lake). The laboratory analysis and initial C-141 were submitted to OCD which assigned remediation permit number 2RP-3871, on September 8, 2016.

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 22, 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 2,983 feet above mean sea level (AMSL);
- Surface drainage is to the south and north towards a playa lake (Salt Lake) located immediately south 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 2.0 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 Horizontal Feet	20

The following RRAL apply to the release for ranking score: 30

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

#### 2.0 REMEDIATION

Soil remediation was performed between December 5 and 16, 2016, according to the plan approved by OCD District 2 on November 10, 2016. SDR, under supervision from LAI, excavated soil from the areas of DP-07-01, DP-07-02, DP-07-07 and DP-07-08 measuring about  $10 \times 20$  feet (DP-07-01 and DP-07-02),  $10 \times 10$  feet (DP-07-07) and  $15 \times 15$  feet (DP-07-08) to about 2 feet bgs. Soil was excavated from the areas of DP-07-03, DP-07-04 and DP-07-06 measuring about  $10 \times 10$  feet (DP-07-03) and  $20 \times 20$  feet (DP-07-04 and DP-07-06) to about 1 foot bgs. The excavations were filled with caliche.

SDR excavated soil from the area of DP-07-05 measuring about 35 x 45 feet to about 4 feet bgs. On December 7, 2016, soil samples were collected from the excavation sidewalls and 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). BTEX was below the method reporting limit (RL) in the sidewall samples from excavation DP-07-05. TPH was above the RRAL (100 mg/Kg) in the south sidewall sample (266.5 mg/Kg). On December 9, 2016, additional soil was excavated from the south sidewall followed by another confirmation sample on December 13, 2016. TPH was above the RRAL in the second confirmation sample. Additional soil was removed from the south sidewall followed by a third confirmation sample on December 13, 2016. TPH was led the method reporting limit (<29.4 mg/Kg) in the final confirmation soil sample. A 20 mil thickness polyethylene liner was placed in the bottom of the excavation at approximately 4 feet bgs and the excavation above the liner was filled with caliche.

Approximately 614 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-3874.



2RP-3874
Investigation Soil Sample Analytical Data Summary
XTO Energy, Inc., Nash Draw Tank Battery 19 and 34
Unit J (NE/4, SW/4), Section 12, Township 23 South, Range 29 East Eddy County, New Mexico

Location	Depth (Foot)	Collection	Status	C6 - C12	>C12 - C28	>C28 - C35	TPH (mg/Kg)
OCD RRAL:	(reel)	Date		(8) (8) (1)	(Sv/Siii)	(Su/Su)	100
DP-07-01	0-1	6/22/2016	Excavated	31	547	115	683
	1-2	6/22/2016	Excavated	1,970	21,400	3,060	26,500
	2-3	6/22/2016	In-Situ	<27.2	<27.2	<27.2	<27.2
DP-07-02	0 - 1	6/22/2016	Excavated	<139	20,300	5,330	25,630
	1 - 2	6/22/2016	Excavated	39.2	286	71.2	396.4
	2 - 3	6/22/2016	In-Situ	72.5	31.7	<28.7	104.2
	3 - 4	6/22/2016	In-Situ	<29.8	<29.8	<29.8	<29.8
DP-07-03	0-1	6/22/2016	Excavated	<28.4	750	244	994
	1 - 2	6/22/2016	In-Situ	<28.7	<28.7	<28.7	<28.7
	2-3	6/22/2016	In-Situ	<29.8	<29.8	<29.8	<29.8
	3 - 4	6/22/2016	In-Situ	1	Ĭ	Ĭ	I
DP-07-04	0 - 1	6/22/2016	Excavated	<27.5	359	97.4	456.4
DP-07-05	0 - 1	6/22/2016	Excavated	216	5,530	1,560	7,306
	1 - 2	6/22/2016	Excavated	33.0	1,400	254	1,680
	2 - 3	6/22/2016	In-Situ	37.5	87.2	<28.1	124.7
DP-07-06	0 - 1	6/22/2016	In-Situ	<27.8	102	98.7	200.7

Unit J (NE/4, SW/4), Section 12, Township 23 South, Range 29 East XTO Energy, Inc., Nash Draw Tank Battery 19 and 34 Investigation Soil Sample Analytical Data Summary Eddy County, New Mexico 2RP-3874 Table 1

Location	Depth	Collection	Status	C6 - C12	>C12 - C28	>C28 - C35	ТРН
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:							100
4	1-2	6/22/2016	In-Situ	\(\sum_{\text{\tin}\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\texi}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\tint{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\tint{\text{\text{\texi}\text{\texi}\tint{\text{\texi}\text{\tex{\texi}\text{\texi}\text{\texit{\texi}\text{\texi}\text{\texi}\ti	(55)	ST-1	374
	2-3	6/22/2016	In-Situ	Ì	Ę	ï	1
	3 - 4	6/22/2016	In-Situ	Ê	ı	Ť	Ĭ
DP-07-07	0 - 1	6/22/2016	In-Situ	810	22,500	4,350	27,660
	1-2	6/22/2016	In-Situ	72.8	1,360	186	1,618.8
	2-3	6/22/2016	In-Situ	<28.1	75.6	<28.1	75.6
	3 - 4	6/22/2016	In-Situ	64.1	32.1	<30.1	96.2
DP-07-08	0-1	6/22/2016	In-Situ	994	15,400	3,470	19,864
	1-2	6/22/2016	In-Situ	36.2	408	72.6	516.8
	2-3	6/22/2016	In-Situ	<30.5	47.7	<30.5	47.7
	3 - 4	6/22/2016	In-Situ	<30.1	<30.1	<30.1	<30.1

Notes: laboratory analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 method 8015M (TPH) 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)

Bold and highlighted exceeds OCD recommended remediation action level (RRAL)

Table 2
2RP-3874
Confirmation Soil Sample Analytical Data Summary
XTO Energy, Inc., Nash Draw Tank Battery 19 and 34
Unit J (NE/4, SW/4), Section 12, Township 23 South, Range 29 East Eddy County, New Mexico

Location	Sidewall	Depth	Collection	Status	Benzene	BTEX	C6 - C12	>C12 - C28   >C28 - C35	>C28 - C35	ТРН
		(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
OCD RRAL:										100
Dp-07-05	North	2	12/7/2016	In situ	<0.00110	<0.0077	<27.5	<27.5	<27.5	<27.5
	East	2	12/7/2016	In situ	<0.00122	<0.00854	<30.5	<30.5	<30.5	<30.5
	South	2	12/7/2016	Excavated	<0.00118	<0.00824	<29.1	198	68.5	266.5
		2	12/9/2016	Excavated	1		<28.1	333	105	438
		2	12/13/2016	In situ		120	<29.4	<29.4	<29.4	<29.4
	West	2	12/9/2016	In situ	<0.0012	<0.00842	<30.1	<30.1	<30.1	<30.1

Notes: laboratory analysis performed by Permian Basin Environmental Lab, Midland, Texas, by EPA SW-846 method 8015M (TPH)

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)

Bold and highlighted exceeds OCD recommended remediation action level (RRAL)



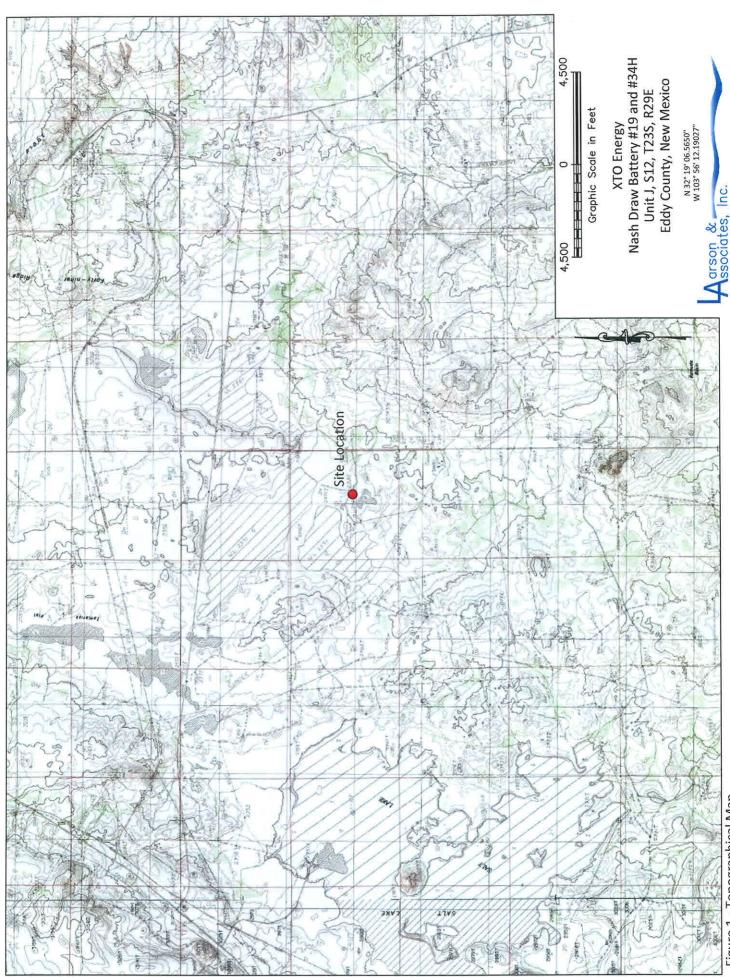


Figure 1 - Topographical Map



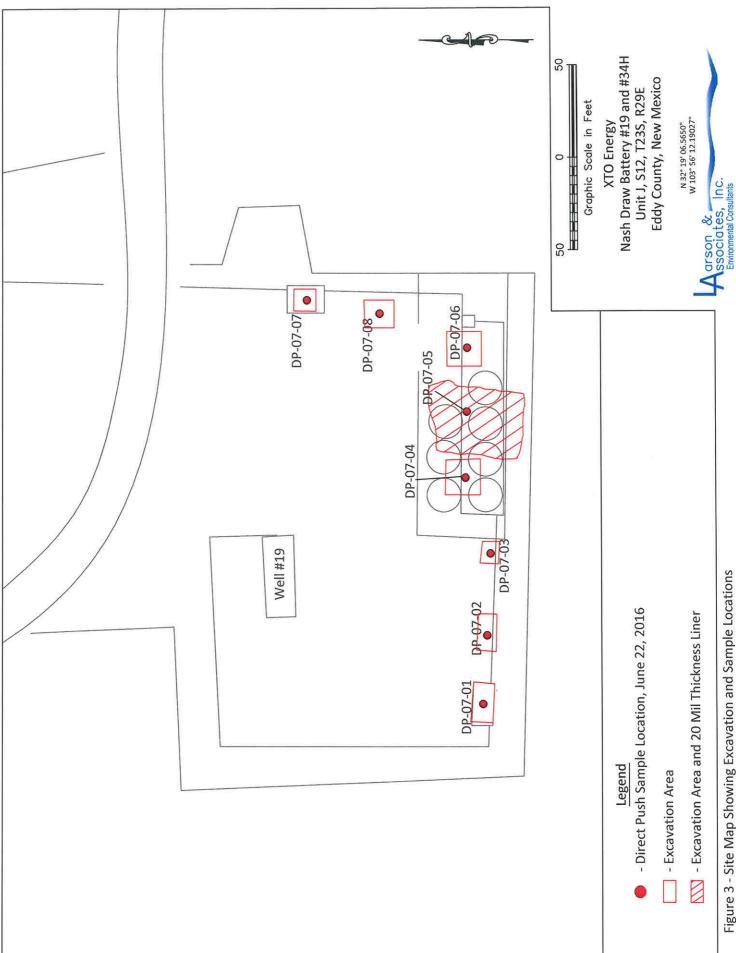


Figure 3 - Site Map Showing Excavation and Sample Locations

# Appendix A Remediation Plan Approval

From:

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

Sent:

Thursday, November 10, 2016 3:06 PM

To:

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

hprice@blm.gov

Cc:

McMinn, Dudley; Williams, Luke

Subject:

RE: 2RP-3874, Remediation Plan, Nash Draw Tank Battery #19 & #34,

November 2, 2016

RE: XTO \* Nash Draw Battery #19 and #34 \* 30-015-27590 \* 2RP-3874

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 6:38 PM

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

Cc: McMinn, Dudley; Williams, Luke

Subject: Re: 2RP-3874, Remediation Plan, Nash Draw Tank Battery #19 & #34, November 2, 2016

#### All,

Please find attached remediation plan for the Nash Draw Tank Battery #19 & #34. The plan was revised to include BTEX in excavation samples, where applicable. 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 19 & 34 Project Number: 16-0108-07 Location: New Mexico

Lab Order Number: 6L07006



NELAP/TCEQ # T104704156-13-3

Report Date: 12/08/16

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710

Project Number: 16-0108-07 Project Manager: Mark Larson Fax: (432) 687-0456

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-07-05-S2	6L07006-01	Soil	12/07/16 10:55	12-07-2016 15:25
DP-07-05-N2	6L07006-02	Soil	12/07/16 10:39	12-07-2016 15:25
DP-07-05-W2	6L07006-03	Soil	12/07/16 11:10	12-07-2016 15:25
DP-07-05-E2	6L07006-04	Soil	12/07/16 10:46	12-07-2016 15:25

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw 19 & 34

Project Number: 16-0108-07

Project Manager: Mark Larson

Fax: (432) 687-0456

#### DP-07-05-S2 6L07006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	iian Basin E	nvironmer	ıtal Lab, I	P.				
Organics by GC									
Benzene	ND	0.00116	mg/kg dry	ij	P6L0807	12/08/16	12/08/16	EPA 8021B	
Toluene	ND	0.00233	mg/kg dry	1,	P6L0807	12/08/16	12/08/16	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	Ţ	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	2 <b>1</b>	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	<u>-1</u>	P6L0807	12/08/16	12/08/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzenc		90.9 %	75-1	25	P6L0807	12/08/16	12/08/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	75-1	25	P6L0807	12/08/16	12/08/16	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ls				**********			
% Moisture	14.0	0.1	%	T	P6L0805	12/08/16	12/08/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	by EPA Method 8	)15M							
C6-C12	ND	29.1	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
>C12-C28	198	29.1	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
>C28-C35	68.5	29.1	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane		89.9 %	70-1	30	P6L0804	12/07/16	12/08/16	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	P6L0804	12/07/16	12/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	266	29.1	mg/kg dry	t.	[CALC]	12/07/16	12/08/16	calc	

P.O. Box 50685 Midland TX, 79710 Project: Nash Draw 19 & 34

Project Number: 16-0108-07 Project Manager: Mark Larson

> DP-07-05-N2 6L07006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironmen	tal Lab, l	P.				
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P6L0807	12/08/16	12/08/16	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P6L0807	12/08/16	12/08/16	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	L	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	[1]	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P6L0807	12/08/16	12/08/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-12	5	P6L0807	12/08/16	12/08/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.3 %	75-12	15	P6L0807	12/08/16	12/08/16	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds		× · · · · · · · · · · · · · · · · · · ·				secucioniste de de 1953	MARIE AND A AND SERVICES
% Moisture	9.0	0.1	%	ì	P6L0805	12/08/16	12/08/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 8	015M							
C6-C12	ND	27.5	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	11	P6L0804	12/07/16	12/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane		87.3 %	70-13	0	P6L0804	12/07/16	12/08/16	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-13	0	P6L0804	12/07/16	12/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	(CALC)	12/07/16	12/08/16	calc	

Fax: (432) 687-0456

P.O. Box 50685

Midland TX, 79710

Project: Nash Draw 19 & 34

Project Number: 16-0108-07 Project Manager: Mark Larson Fax: (432) 687-0456

#### DP-07-05-W2 6L07006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environme	ıtal Lab, l	Ĺ <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00120	mg/kg dry	1	P6L0807	12/08/16	12/08/16	EPA 8021B	
Toluene	ND	0.00241	mg/kg dry	4	P6L0807	12/08/16	12/08/16	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	5 <b>9</b> 2	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	jj	P6L0807	12/08/16	12/08/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.0 %	75-1	25	P6L0807	12/08/16	12/08/16	EPA 8021B	eersenaan minaa
Surrogate: 1,4-Difluorobenzene		96.5 %	75-1	25	P6L0807	12/08/16	12/08/16	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ds							
% Moisture	17.0	0.1	%	:1	P6L0805	12/08/16	12/08/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	30,1	mg/kg dry	Ü.	P6L0804	12/07/16	12/08/16	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	[1]	P6L0804	12/07/16	12/08/16	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane	100000000000000000000000000000000000000	89.1 %	70-1	30	P6L0804	12/07/16	12/08/16	TPH 8015M	our successor descri
Surrogate: o-Terphenyl		106 %	70-1	30	P6L0804	12/07/16	12/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	12/07/16	12/08/16	calc	

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-07 Project Manager: Mark Larson Fax: (432) 687-0456

#### DP-07-05-E2 6L07006-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironment	al Lab, l	Р.				
Organics by GC				de absolu		nii eta aan eta mandan		VO WELLEND	
Benzene	ND	0.00122	mg/kg dry	9	P6L0807	12/08/16	12/08/16	EPA 8021B	
Toluene	ND	0.00244	mg/kg dry	1	P6L0807	12/08/16	12/08/16	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1.	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P6L0807	12/08/16	12/08/16	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1.	P6L0807	12/08/16	12/08/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-12	5	P6L0807	12/08/16	12/08/16	EPA 8021B	~
Surrogate: 4-Bromofluorobenzene		85.4 %	75-12	5	P6L0807	12/08/16	12/08/16	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
% Moisture	18.0	0.1	%	1	P6L0805	12/08/16	12/08/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M	HY: 17					1/41/3/3/3/3/3/3/22 1/4/3/3/3/	
C6-C12	ND	30.5	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	milylasi aliani
>C12-C28	ND	30.5	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P6L0804	12/07/16	12/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane	AMERICAN AT THE	90.7 %	70-13	0	P6L0804	12/07/16	12/08/16	TPH 8015M	100000000000000000000000000000000000000
Surrogate: o-Terphenyl		107 %	70-13	0	P6L0804	12/07/16	12/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	12/07/16	12/08/16	calc	

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710

Project Number: 16-0108-07 Project Manager: Mark Larson Fax: (432) 687-0456

### Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

E		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (P6L0807-BLK1)	ministe			Prepared & Analy	yzed: 12/08/16	
Benzene	ND	0.00100	mg/kg wet	111775 Million Williams Williams Co.		***************************************
Toluene	ND	0.00200	10			
Ethylbenzene	ND	0.00100	31			
Xylene (p/m)	ND	0.00200	31			
Xylene (o)	ND	0.00100	30	W.		
Surrogate: 1,4-Difluorobenzene	0.0563	and Advivorance that in	ø	0.0600	93,9	75-125
Surrogate: 4-Bromofluorobenzene	0.0623		(h)	0.0600	104	75-125
LCS (P6L0807-BS1)				Prepared & Anal	yzed: 12/08/16	
Benzene	0.0989	0.00100	mg/kg wet	0.100	98.9	70-130
Toluene	0.104	0.00200	н	0.100	104	70-130
Ethylbenzene	0.125	0.00100	500	0.100	125	70-130
Xylene (p/m)	0.216	0.00200	30	0.200	108	70-130
Xylone (o)	0.104	0.00100	(80)	0.100	104	70-130
Surrogate: 1,4-Difluorobenzene	0.0655		H	0.0600	109	75-125
Surrogate: 4-Bromofluorobenzene	0.0696		н	0.0600	116	75-125

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-07

Fax: (432) 687-0456

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 P6L0805 - *** DEFAULT PREP ***								1237.000.000		
Blank (P6L0805-BLK1)				Prepared &	¿ Analyzed:	12/08/16	te Asese see	294597453335533343		
% Moisture	ND	0.1	%					K4514		
Duplicate (P6L0805-DUP1)	Sou	rce: 6L06005-	11	Prepared &	k Analyzed:	12/08/16				
% Moisture	21.0	0.1	%		20.0			4.88	20	
Duplicate (P6L0805-DUP2)	Sou	rce: 6L06011-	02	Prepared &	& Analyzed:	12/08/16				
% Moisture	3.0	0.1	%	11.000.000.000.000.000.000.000.000.000	3.0	garante e a a timo e e il tragi molte, i a di tradici e il		0.00	20	
Duplicate (P6L0805-DUP3)	Sou	rce: 6L07005-	02	Prepared &	& Analyzed:	12/08/16				
% Moisture	23.0	0.1	%		22.0			4,44	20	

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-07

Fax: (432) 687-0456

Project Manager: Mark Larson

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

Analyte	Rosult	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6L0804 - TX 1005	3-73-73-73-73-73-73-73-73-73-73-73-73-73				3.					
Blank (P6L0804-BLK1)				Prepared &	Analyzed:	12/07/16				
C6-C12	ND	25.0	mg/kg wet					PERSONAL PROPERTOR		
>C12-C28	ND	25.0	SIE							
>C28-C35	ND	25.0	216							
Surrogate: 1-Chlorooctane	97.5		n	100		97.5	70-130			
Surrogate: o-Terphenyl	56.9		ü	50.0		114	70-130			
LCS (P6L0804-BS1)	wa yan ilika ukila ka kacama Wakata wa ka ka kata wa ka	- Some resultation surveined that resultation		Prepared &	: Analyzed:	12/07/16				
C6-C12	903	25.0	mg/kg wet	1000		90.3	75-125			
>C12-C28	1100	25.0	E.B.	1000		110	75-125			
Surrogate: 1-Chlorooctane	127		12	100	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	127	70-130			
Surrogate: o-Terphenyl	62.6		Ÿ.	50.0		125	70-130			
LCS Dup (P6L0804-BSD1)				Prepared &	: Analyzed:	12/07/16				
C6-C12	920	25.0	mg/kg wet	1000		92.0	75-125	1.92	20	
>C12-C28	1100	25.0	at.	1000		110	75-125	0.238	20	
Surrogate: 1-Chlorooctane	123	CONTRACTOR AND CONTRACTOR	11	100		123	70-130	NEEDER IS FOREST		***********
Surrogate: o-Terphenyl	60.6		H	50.0		121	70-130			

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710

Dup

Duplicate

Project Number: 16-0108-07 Project Manager: Mark Larson Fax: (432) 687-0456

#### **Notes and Definitions**

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

	TO THE WATER			
Report Approved By:	#2 12"	Date:	12/8/2016	

Brent Barron, Laboratory Director/Technical Director

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(alb)006

DP-07-05-N2 RELINQUISHED BY: (Signature TOTAL DP-07-05- E2 DP-07-05-WZ DP-07-05-51 RELINQUISHED BY:(Signature) RELINCUISHED BY:(Signature) Data Reported to: TIME ZONE: Time zone/State: Z 3 Yes X No TRRP report? Field Sample I.D. SSOCIATES, Inc. arson & W=WATER S=SOIL A=AIR Lab# 31/7/18 Date 12/7/2016 OT=OTHER SL=SLUDGE P=PAINT 11:10 10:39 10:55 94.0 DATE/TIME DATE/TIME DATE/TIME Matrix S RECEIVED BY: (Signature) RECEIVED BY: (Signature) RECEIVED BY; (Signature) 507 N. Marienfeld, Ste. 200 # of Containers Midland, TX 79701 PRESERVATION 432-687-0901 HNO<sub>3</sub> H₂SO₄ □ NaOH □ × × × × UNPRESERVED ANALYSES × × × × CASOLINE MOD SOLO PRINCIPALIDAS OF × × PO#: DATE: PROJECT LOCATION OR NAME: XTO NASH DRAW 19 4 34 LAI PROJECT # 16-0108-07 × × 12/7/2016 2 DAY 🖸 NORMAL 🖸 OTHER A 1 DAY TURN AROUND TIME RUSH LABORATORY USE ONLY: HAND DELIVERED CARRIER BILL# CUSTODY SEALS - BROKEN DINTACT DINOTUSED RECEIVING TEMP: LAB WORK ORDER #: CHAIN-OF-CUSTO COLLECTOR: PAGE SIS. FIELD NOTES Page 11 of 11

## 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 19 & 34
Project Number: 16-0108-07
Location: New Mexico

Lab Order Number: 6L12001



NELAP/TCEQ # T104704156-13-3

Report Date: 12/12/16

Project: Nash Draw 19 & 34

P.O. Box 50685

Midland TX, 79710

Project Number: 16-0108-07 Project Manager: Mark Larson Fax: (432) 687-0456

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-07-05-S2	6L12001-01	Soil	12/09/16 14:50	12-12-2016 09;41

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-07

Project Manager: Mark Larson

Fax: (432) 687-0456

#### DP-07-05-S2 6L12001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EP.	A / Standard Method	ls							
% Moisture	11.0	0.1	%	1	P6L1203	12/12/16	12/12/16	% calculation	Consider Available
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	)15M	2000					27000 - 27	
C6-C12	ND	28.1	mg/kg dry	1	P6L1205	12/12/16	12/12/16	TPH 8015M	
>C12-C28	333	28.1	mg/kg dry	1	P6L1205	12/12/16	12/12/16	TPH 8015M	
>C28-C35	105	28.1	mg/kg dry	1	P6L1205	12/12/16	12/12/16	TPH 8015M	
Surrogate: 1-Chlorooctane		59.5 %	70-1.	30	P6L1205	12/12/16	12/12/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		71.0 %	70-1.	30	P6L1205	12/12/16	12/12/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	438	28.1	mg/kg dry	3	[CALC]	12/12/16	12/12/16	calc	

Project: Nash Draw 19 & 34

P.O. Box 50685

Project Number: 16-0108-07

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.

Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
10.177	CONTRACTOR SELV		10 Sec. 100 P. W. 10 P.					27100-2020	
			Prepared &	Analyzed:	12/12/16				
ND	0.1	%	The second second			Albandiraanni ito pala			
Sour	ce: 6L12001-	01	Prepared &	Analyzed:	12/12/16				
10.0	0.1	%		11,0			9.52	20	
	ND Sour	Result Limit  ND 0.1  Source: 6L12001-	Result         Limit         Units           ND         0.1         %           Source: 6L12001-01	Prepared &   ND   0.1 %     Prepared &   Source: 6L12001-01   Prepared &	Result Limit Units Level Result  Prepared & Analyzed:  ND 0.1 %  Source: 6L12001-01 Prepared & Analyzed:	Result         Limit         Units         Level         Result         %REC           ND         Source: 6L12001-01         Prepared & Analyzed: 12/12/16	Result         Limit         Units         Level         Result         %REC         Limits           Prepared & Analyzed: 12/12/16           ND         0.1         %           Source: 6L12001-01         Prepared & Analyzed: 12/12/16	Result         Limit         Units         Level         Result         %REC         Limits         RPD           Prepared & Analyzed: 12/12/16           ND         0.1         %           Source: 6L12001-01         Prepared & Analyzed; 12/12/16	Prepared & Analyzed: 12/12/16     ND   0.1 %     Prepared & Analyzed: 12/12/16     Source: 6L12001-01   Prepared & Analyzed: 12/12/16

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-07 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.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (P6L1205-BLK1)				Prepared & Ana	lyzed: 12/12/16				
C6-C12	ND	25.0	mg/kg wet						***************************************
>C12-C28	ND	25.0	.0						
>C28-C35	ND	25.0	±0:						
Surrogate: 1-Chlorooctane	51.5	anna a gaireann ann a gaire agus agus agus agus	, i	50.0	103	70-130			(Pant) (Samurayan)
Surrogate: o-Terphenyl	29.5		ū	25.0	118	70-130			
LCS (P6L1205-BS1)				Prepared & Ana	lyzed: 12/12/16				
C6-C12	1080	25.0	mg/kg wet	1000	108	75-125		.01100000000000000000000000000000000000	(00000000000000000000000000000000000000
>C12-C28	958	25.0	ü	1000	95.8	75-125			
Surrogate: 1-Chlorooctane	70.0	THE TRANSPORTER PROPERTY.	N. C.	100	70.0	70-130	ty to the deposit of the best of the best	//h///	
Surrogate: o-Terphenyl	31.6		Ħ	50.0	63.1	70-130			S-GC
LCS Dup (P6L1205-BSD1)				Prepared & Ana	lyzed: 12/12/16				
C6-C12	1100	25.0	mg/kg wet	1000	110	75-125	2.09	20	Name And in Francis II Indian
>C12-C28	963	25.0	'n	1000	96.3	75-125	0.564	20	
Surrogate: 1-Chloroactane	77,9	***************************************	"	100	77.9	70-130	ACAUST CENTRAL UTO		helifores avances
Surrogate: o-Terphenyl	35.0		<b>a</b> .	50.0	69.9	70-130			S-GC

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-07

Fax: (432) 687-0456

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

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

LCS Laboratory Control Spike

MS Matrix Spike Duplicate Dup

	Entitle on		
Report Approved By:	22.000°	Date:	12/12/2016

Brent Barron, Laboratory Director/Technical Director

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

07 N. Marienfeld, Ste. 200 Midland, TX 79701  432-687-0901  DATE: 12/12/2016  PO #: LAB WC PROJECT LOCATION OR NAME: X10 1	CHAIN-OF-CUSTOI  OCHAIN-OF-CUSTOI  PAGE 1 OF  PAGE 1 OF  PAGE 1 OF  LAB WORK ORDER #  A32-687-0901  PROJECT LOCATION OR NAME: XTO NASH DAM SATTERY #19 * 34  CONSUltrants	CALTACOUNCE H. IS COLOR-CO.	Data Reported to:
PAGE 1 OF	CHAIN-OF-CUSTOI  OCHAIN-OF-CUSTOI  PAGE 1 OF  PAGE 1 OF  LAB WORK ORDER #  Midland, TX 79701  PROJECT LOCATION OR NAME: XTO Nash Daw Sattery #19 - 34	COLLECTOR. IN	
507 N. Marienfeld, Ste. 200 PO #: LAB WORK ORDER	(0 ( ) - U ) CHAIN-OF-CUSTOI  507 N. Marienfeld, Ste. 200 Po #: LAB WORK ORDER #: LA	PROJECT LOCATION OR NAME: XTO NASH DRAW SATTERY #19 + 34	
DATE: 12/12/2016 PAGE 1 OF	CHAIN-OF-CUSTOI	PO #: LAB WORK ORDER #: ag	
		PAGE 1 OF	000 TJ
		CHAIN-OF-COOLOG7	WC1900

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CARRIER BILL#	OTHER M		RECEIVED BY: (Signature)	<u>و</u> د	DATE/TIME	mature)	RELINQUISHED BY:(Signature)
CUSTODY SEALS - D BROKEN MINTACT O NOT USED	1 DAY LI	***************************************				,	1
RECEIVING TEMP: 18. U THERM #:	NORMAL (1)		RECEIVED BY: (Signature)	RECEIVE	DATETIME	mature)	RELINOUISHED BY:(Signature)
LABORATORY USE ONLY:	TURN AROUND TIME		RECEIVED BY: (Signature)	RECEIV	DATE/TIME	nature)	RELINCUISHED BY:(Signature)
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SOLO LO LO LO LO LO LO LO LO LO PIELD NOTES	920 90 1920 48		ICE UNPR	Matrix # of Co	Time N	Lab# Date	Field Sample I.D.
1			ESE	ontai		<b>3</b> .0	
8 3	3000			iners			TIME ZONE: Time zone/State:
(X)	(1)		<b>3</b>		OT=OTHER		Yes \(\frac{1}{2}\)No
(Q)			PRESERVATION		P=PAINT	S=SOIL P=PAINT	
1							

## 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 19 & 34 Project Number: 16-0108-07 Location: New Mexico

Lab Order Number: 6L13012



NELAP/TCEQ # T104704156-13-3

Report Date: 12/14/16

P.O. Box 50685

Midland TX, 79710

Project: Nash Draw 19 & 34

Project Number: 16-0108-07
Project Manager: Mark Larson

Fax: (432) 687-0456

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-07-05-S2	6L13012-01	Soil	12/13/16 13:30	12-13-2016 16:52

Larson & Associates, Inc.

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710

Fax: (432) 687-0456

Project Number: 16-0108-07 Project Manager: Mark Larson

> DP-07-05-S2 6L13012-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	ian Basin F	Invironmen	tal Lab, l	L.P.				
General Chemistry Parameters by EPA	Standard Method	s	ACCOMPANY				Nether College		*******
% Moisture	15.0	0.1	%	1	P6L1401	12/14/16	12/14/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	29.4	mg/kg dry	1	P6L1403	12/14/16	12/14/16	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P6L1403	12/14/16	12/14/16	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P6L1403	12/14/16	12/14/16	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-1	30	P6L1403	12/14/16	12/14/16	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-1	30	P6L1403	12/14/16	12/14/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	12/14/16	12/14/16	cale	

Larson & Associates, Inc.

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710 Project Number: 16-0108-07

Fax: (432) 687-0456

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 P6L1401 - *** DEFAULT PREP ***						25. 25.	16 16000	VACO NOTICE CONTRACTOR		
Blank (P6L1401-BLK1)				Prepared &	k Analyzed	12/14/16				
% Moisture	ND	0.1	%	1000 mm (mm mmm) a mmm) a demokracja (mm)						*******************************
Duplicate (P6L1401-DUP1)	Sou	rce: 6L13012-	01	Prepared &	& Analyzed	: 12/14/16				
% Moisture	15.0	0.1	%		15.0		/:::/::::	0.00	20	200

Larson & Associates, Inc.

Project: Nash Draw 19 & 34

P.O. Box 50685 Midland TX, 79710

Fax: (432) 687-0456

Project Number: 16-0108-07 Project Manager: Mark Larson

### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - 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 P6L1403 - TX 1005	Victoria de la constitución de l		4504							
Blank (P6L1403-BLK1)				Prepared &	Analyzed:	12/14/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	9							
>C28-C35	ND	25.0	11							
Surrogate: 1-Chlorooctane	116		, H	100		116	70-130			Are specified animous (1790).
Surrogate: o-Terphenyl	57.9			50.0		116	70-130			
LCS (P6L1403-BS1)				Prepared &	Analyzed:	12/14/16				
C6-C12	1090	25.0	mg/kg wet	1000		109	75-125			
>C12-C28	1170	25.0	я	1000		117	75-125			
Surrogate: 1-Chlorooctane	107		es	100		107	70-130			#11.45.65 * 1.45.05 * 1.45.05 * 1
Surrogate: o-Terphenyl	51.0		(3)	50.0		102	70-130			
LCS Dup (P6L1403-BSD1)				Prepared &	Analyzed:	12/14/16				
C6-C12	990	25.0	mg/kg wet	1000		99.0	75-125	9.61	20	
>C12-C28	1200	25.0	111	1000		120	75-125	2.52	20	
Surrogate: 1-Chlorooctane	116		N	100		116	70-130	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Surrogate: o-Terphenyl	55.4		ø	50.0		111	70-130			

Larson & Associates, Inc. Project: Nash Draw 19 & 34 Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710

Project Number: 16-0108-07 Project Manager: Mark Larson

#### **Notes and Definitions**

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

		June De Verla	n "y Ag			
Report Approved By:	eccess	***************************************		Date:	12/14/2016	

Brent Barron, Laboratory Director/Technical Director

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CARRIER BILL#	OTHER CI	***************************************			15:01 01-61-6	2-13-16		
COSTODI SEALS - CI BRONEN PRINTACI CI NO CORD	2 DAY 🖸	According (a) Houseward	RECEIVED BY: (Signature)	RECEIVED	DATE/TIME	5	(Signature)	REI INOLUSHED BY: (Signature)
RECEIVING TENEY 12. 2 THEXN #:	1 DAY		RECEIVED BY: (Signature)	RECEIVED	DATE/TIME	A STATE OF THE STA	:(Signature)	RELINQUISHED BY:(Signature)
LABORATORY USE ONLY:	TURN AROUND TIME		RECEIVED BY: (Signature)	RECEIVED	12/13/12 4:50	12/13/	:(Signature)	RELINOUISMED AY: (Signature)
								TOTAL
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(C)	PRO NO DE	*	PRESERVATION		T JDGE HER	P=PAINT R SL=SLUDGE OT=OTHER	S=SOIL W=WATER A=AIR	TRRP report?  ☐ Yes ■ No
3		5						Data Reported to:
COLLECTOR: MG		1 A1 DB	432-687-0901	432		ants	tal Cónsulta	Environmen
ATTERY \$10 + \$34	BBO JECT I OCATION OR NAI		Midland, TX 79701	Midla		ပ်	tes, Inc	ssociates, Inc.
LAB WORK ORDER #:	DO #:		507 N. Marienfeld, Ste. 200	507 N. Ma			8	
7.400	2/2/2016							

Appendix C

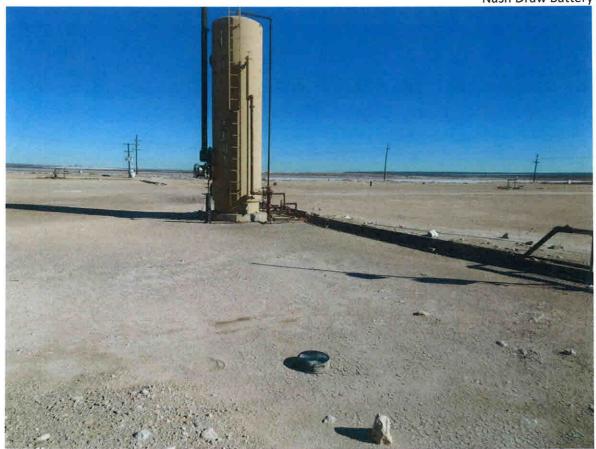
Photographs



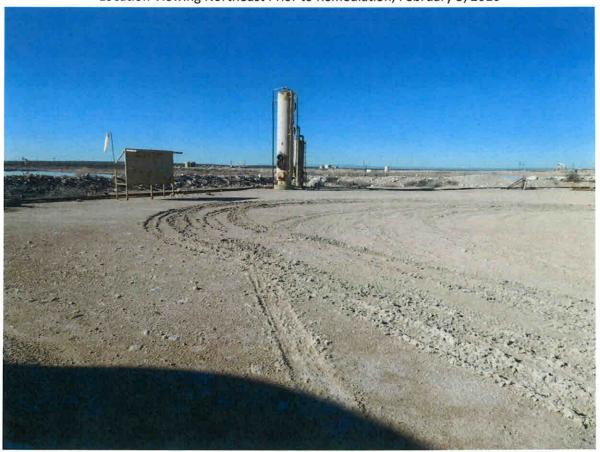
Location Sign



Location Viewing Southeast Prior to Remediation, February 3, 2016



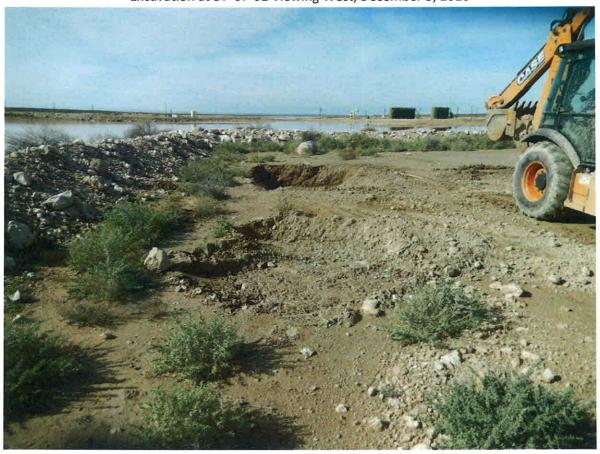
Location Viewing Northeast Prior to Remediation, February 3, 2016



Location Viewing Southwest Prior to Remediation, February 3, 2016



Excavation at DP-07-01 Viewing West, December 5, 2016



Excavation at DP-07-02 Viewing West, December 5, 2016



Excavation at DP-07-03 Viewing East, December 5, 2016



Initial Excavation at DP-07-03 and DP-07-05 Viewing East, December 5, 2016







Excavation at DP-07-06 Viewing West, December 9, 2016



Excavation at DP-07-08 Viewing South, December 9, 2016



Excavation at DP-07-07 Viewing South, December 9, 2016



Liner Installed in Excavation (4 feet) Viewing South, December 15, 2016



Completed Remediation Viewing Southwest, December 16, 2016



Completed Remediation Viewing East, December 16, 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	116407 1. PAGE_OF_ 2. TRAILER NO.						
G	3. COMPANY NAME	4. ADD	RESS			5. PI	CK-UP DATE	YI.	ren alla	
9	PHONE NO.	CITY		STATE	7	(IP 6. T)	NRCC LD. NO	Ta Carlo		
E										
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8, CONT No.	AINERS Type	9, TOTAL QUANTITY	10, UNIT Wt/Vol.	11. TEXAS WASTE ID#	
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	48 (180									
Е	c.	i tri		Mark Barrier			F9" }			
R	d. 6010 - 1156	0	7	ST)		11-1				
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		Maria S				13. WASTE P	ROFILE N	O,	
A										
	14. IN CA	SE OF		GENCY OR SPIL	L, CON	TACT	24-HOUR	EMERGE	NCY NO	
T			k;   ii 43				2111001			
o	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	and are in	ill respects in proper co	ondition for	transport	by highway acc	cording to a	pplicable	
R	PRINTED/TYPED NAME			SIGNATURE					DATE	
T R	16. TRANSPORTER (1)			17.	TR	ANSPO	RTER (2)			
A	NAME:			NAME:						
N S	TEXAS I.D. NO.			TEXAS I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:  EMERGENCY PHONE:			IN CASE OF EMP		CONTAC	Т:			
R	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPO		2): Ackno	wledgment of	receipt of n	naterial	
E R	PRINTED/TYPED NAME		Alers .	PRINTED/TYPEI	NAME_	N. S. Call			( Parent	
S	SIGNATURE	DATE		SIGNATURE	park.			DATE		
	Loo Lond II.C	ADD	RESS:	16 1 24 11	0.11	60/10	PHONE:		27 4040	
D F	Lea Land, LLC			e Marker 64, U. Miles East of C			0,	5/5-8i	37-4048	
I A S C P I O L	PERMIT NO. WM-01-035 - New Mex	ico		20. COMMENTS						
S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION vastes.	N: I Hereby	certify that the above of	described v	vastes were	e delivered to	his facility,	that the	
LY	AUTHORIZED SIGNATURE	1072		CELL NO.	71.77	DATE	idikois.	T	IME //Q	

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

### LEA LAND, LLC

NO	N-HAZARDOUS WASTE MANIF	EST	NO	116408	1. PAC	DE_OF_	2. TRAIL	2. TRAILER NO.			
	3. COMPANY NAME	4. ADDI	RESS		1	5. P	ICK-UP DATE				
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	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO				
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D	ALC: N		8. CON	TAINERS	9. TOTAL	10. UNIT	11. TEXAS		
		ъ.			No.	Туре	QUANTITY	Wt/Vol.	WASTE ID#		
N	and a few they have the										
	b. (2.1) (7)										
E	c.										
	d.										
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	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	KOFILE N	Melica		
A	CONTRACTOR OF THE PARTY OF THE		100		5714	Pass					
	NAME IN CA	SE OF		ENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO		
T							23.11001				
	15.GENERATOR'S CERTIFICATION:	I Hereby	declare that	the contents of this co	nsignmer	nt are fully	and accurately	described a	bove by proper		
0	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, cluding a	and are in a pplicable sta	Il respects in proper co te regulations, and are	ndition for the same	r transport materials	by highway accordingly	cording to a oved by LE	pplicable A LAND, LLC		
ь	PRINTED/TYPED NAME			SIGNATURE					DATE		
R											
Т	16. TRANSPORTER (1)		12.96	17.	TF	RANSPO	RTER (2)	7	September 1		
R	NAME:			NAME:					and the same		
N	TEXAS LD, NO.			TEXAS I.D. NO.							
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0	EMERGENCY PHONE:			EMERGENCY PH		COMI					
R	18. TRANSPORTER (1): Acknowledgment	of receipt	of material	19. TRANSPO		(2): Ackno	owledgment of	receipt of n	naterial		
E	PRINTED/TYPED NAME		Ja W.	PRINTED/TYPE	NAME						
R			A PLANT	ALEXANDER OF THE				Mar II			
	SIGNATURE	DATE		SIGNATURE				DATE			
	Las Land LLC	ADD	RESS:	A.C. CA TI	C II	60/15	PHONE:		7 4040		
D F	Lea Land, LLC			e Marker 64, U. Miles East of C		The second second second	0,	3/3-88	37-4048		
I A S C	PERMIT NO.		30 I	20. COMMENTS	arisbac	I, INIVI	0 0000	ulasty?			
PI	WM-01-035 - New Mex	ico									
O L S I	21.DISPOSAL FACILITY'S CERTIFIC	ATION	N: I Hereby	certify that the above of	lescribed	wastes wei	e delivered to	this facility,	that the		
A T	facility is authorized and permitted to receive such v	vastes.									
L Y	AUTHORIZED SIGNATURE	107		CELL NO.	417.18	DAT	E	_ T)	IME		
	Markov Z. Torica								1		

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

### LEA LAND, LLC

NOI	N-HAZARDOUS WASTE MANIF	EST	NO	116409	1. PA	GEOF_	2, TRAIL	2, TRAILER NO.		
G	3. COMPANY NAME	4. ADD	RESS	A STATE OF THE REAL PROPERTY.	Rivi	5. P	ICK-UP DATE		SEA POR	
6	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO		A VIII	
E										
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:	HUH		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
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	b. 4-7 447									
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	d. // \ // \	7.0	T I							
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:			41)			13. WASTE P	ROFILE N	0	
A							is madici	NOTIEE IN		
	14. IN CA	SE OF	EMERG	ENCY OR SPIL	L. COI	NTACT				
T	NAME	PHON					24-HOUR	EMERGE	NCY NO.	
	15.GENERATOR'S CERTIFICATION:	I Haraba	dealow that	the contents of this is		or trans all the		described a	Lance Consequence	
0	shipping name and are classified, packed, marked, and international and national government regulations, in-	d labeled.	and are in a	Il respects in proper con	ndition fe	or transport	by highway acc	cording to a	onlicable	
R	PRINTED/TYPED NAME			SIGNATURE			ALVA S		DATE	
T R	16. TRANSPORTER (1)		No.	17.	TF	RANSPO	RTER (2)			
A	NAME:			NAME:					10.43	
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					10.40	
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTAC	T:		Salar M	
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	f receipt	of material	EMERGENCY PH		(2) Ackno	avledgment of	receipt of p	atorial	
T E	PRINTED/TYPED NAME	. receipt	or material			- William			delation	
R S		TAKE .		PRINTED/TYPED	NAME					
	SIGNATURE/	DATE		SIGNATURE		friday.	I	DATE		
	Lea Land, LLC	ADDI		Monkon 64 TI	C II.	62/10	PHONE:		7-4048	
DF	Dea Band, DDC			Marker 64, U. Miles East of Ca			0,	3/3-00	7-4040	
I A S C	PERMIT NO.		SUL SU	20. COMMENTS	Circun				Element 1	
P I O L	WM-01-035 - New Mexi									
S I A T	21.DISPOSAL FACILITY'S CERTIFICATION facility is authorized and permitted to receive such was	ATION astes.	: I Hereby o	ertify that the above d	escribed	wastes wer	e delivered to t	his facility,	that the	
L Y	AUTHORIZED SIGNATURE	714	hercie	CELL NO.		DATI		TI	ME	
	Albahas Volen			Tan I						

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

### LEA LAND, LLC

NOI	N-HAZARDOUS WASTE MANIF	EST	NO .	16410		1. PA	GEOF	2. TR	AILER N	NO.	
G	3. COMPANY NAME	4. ADD	RESS				5.	PICK-UP D	CTE		wer i
E	PHONE NO.	CITY		STATE			ZIP 6.	TNRCC LD	NO.		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8	8. CON No.	TAINERS Type	9. TOTA QUANTI	ACCUSE THE RESERVE	UNIT /Vol.	11. TEXAS WASTE ID #
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R	a. 41380	n	411	Mo							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:							13. WAS	E PROF	ILE NO	Ď.
A											
	14. IN CA	SE OF		ENCY OR SI	PILL	, COI	NTACT	24-14	HR FM	FRGE	NCY NO.
T		11101						24-11	OKTAN	LKOL	ic i No.
o	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled.	and are in all	respects in prope	er cond	dition fo	er transpor	t by highwa	accordin	ng to ap	oplicable
R	PRINTED/TYPED NAME			SIGNATURE DAT							DATE
T	16. TRANSPORTER (1)	- 11		17.	Y	TI	RANSP	ORTER (	2)	Wal.	
R A	NAME:			NAME:							A STATE OF
N S	TEXAS I.D. NO.			TEXAS I.D. N	10.						
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R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	f racaint	of material	EMERGENCY 19. TRANS			(2): Ank	youladamen	of recei	nt of m	ratorial
T E	PRINTED/TYPED NAME	a receipt	or material				(2). Hen	lowledgine	UI ICCCI	in or it	atora:
R S				PRINTED/TY	PED	NAME			T FA		
	SIGNATURE	DATE		SIGNATURE					DATI		
	Lea Land, LLC	ADD	RESS: Mile	Marker 64	US	Hw	v 62/1	80 PHC		5-88	7-4048
D F I A				files East of				00,			10.10
S C P I O L	PERMIT NO.  WM-01-035 - New Mex	ico		20. COMMENT	S						
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION astes.	: I Hereby co	ertify that the abo	ove de	scribed	wastes w	ere delivered	to this f	acility,	that the
LY	AUTHORIZED SIGNATURE	146		CELL NO.		THE S	DA	TE .		TI	ME
							S MILL				

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

### LEA LAND, LLC

NO	N-HAZARDOUS WASTE MANIF	EST N	О	116415	I. PA	GE_OF_	2. TRAIL	ER NO.	
G	3. COMPANY NAME	4. ADDRES	SS			5. P	ICK-UP DATE		
G	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC I.D. NO		
E				JANE STATE		211 0. 1	NRCC I.B. NO		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		Bayesia	8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
N	a Lade House Adams and the		TO S			1370	2000		
	ь.								
E	c.								
R	d.								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	O.
A									
	14. IN CA	SE OF E	MERG	ENCY OR SPIL	L, CO	NTACT	MARKET		
T	NAME	PHONE N	(0)				24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION:	I Hereby dec	lare that	the contents of this co	nsignmer	it are fully	and accurately	described a	bove by proper
	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and cluding appli	cable sta	it respects in proper co te regulations, and are	the same	r transport materials	by highway acc previously appro	ording to a oved by LE	A LAND, LLC
R	PRINTED/TYPED NAME			SIGNATURE		7			DATE
T	16. TRANSPORTER (1)					V * * * * * * * * * * * * * * * * * * *			
R	16. TRANSPORTER (1) NAME:			17.	11	CANSPO	ORTER (2)		
A N	TEXAS I.D. NO.			NAME: TEXAS I.D. NO.					
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O R	EMERGENCY PHONE:	en will di		EMERGENCY PH					Tab Miles
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D F	Lea Land, LLC			e Marker 64, U. Miles East of Ca			30,	575-88	37-4048
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P I O L	WM-01-035 - New Mex								
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: I	Hereby (	ertify that the above d	escribed	wastes wer	e delivered to t	his facility,	that the
L Y	AUTHORIZED SIGNATURE	WHIT		CELL NO.		DAT	Е	TI	ME
	ASSETTING TO SEE						Day u. 2.		

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

### LEA LAND, LLC

G PHONE NO. CITY STATE ZIP 6. TNRCC LE	). NO.
PHONE NO. CITY STATE ZIP 6. TNRCC I.E.	
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	. La ravel a service
7. NAME OR DESCRIPTION OF WASTE SHIPPED: 8. CONTAINERS 9. TOTA	AL 10. UNIT 11. TEXAS
No. Type QUANT	ITY Wt/Vol. WASTE ID#
E b.	
R d.	
	STE PROFILE NO.
A CONTRACTOR OF THE CONTRACTOR	
14. IN CASE OF EMERGENCY OR SPILL, CONTACT	
	IOUR EMERGENCY NO.
O  15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accur shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highways the contents of this consignment are fully and accur shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highways the contents of this consignment are fully and accur shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highways the contents of this consignment are fully and accur shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highways.	ay according to applicable
international and national government regulations, including applicable state regulations, and are the same materials previously	approved by LEA LAND, LLC
R PRINTED/TYPED NAME SIGNATURE	DATE
T 16. TRANSPORTER (1) 17. TRANSPORTER	(2)
R	(2)
A NAME: NAME: N TEXAS LD NO. TEXAS LD NO.	
S IDAAS I.D. NO.	
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R EMERGENCY PHONE: EMERGENCY PHONE:	nt of receipt of material
R PRINTED TYPED NAME	
S SIGNATURE SIGNATURE	DATE
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D F Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180,	575-887-4048
I A S C PERMIT NO. 20. COMMENTS	
P I WM-01-035 - New Mexico	
O L S I 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivere	ed to this facility, that the
A T facility is authorized and permitted to receive such wastes.	
L Y AUTHORIZED SIGNATURE CELL NO. DATE	TIME

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

### LEA LAND, LLC

NO	N-HAZARDOUS WASTE MANIF	118441	I. PA	GEOF	2. TRAILER NO. / ) / J							
C	3. COMPANY NAME	4. ADD	RESS			5.1	PICK-UP DATE		10			
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Е		with the		STALL		2.11	INKCC ID. IAC		K III			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D;			STATE OF THE PARTY	TAINERS		10. UNIT Wt/Vol.	11. TEXAS WASTE ID#			
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R	ALILLO 460	00					Pit 1	1.00				
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE I	ROFILE N	O.			
A												
	T IN CASE OF EMERGENCY OR SPILL, CONTACT PHONE NO 24-HOUR EMERGENCY NO.											
1												
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by p shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable											
	international and national government regulations, in	cluding r	tate regulations, and are	the same	materials	previously appr	oved by LE	A LAND, LLC				
R	PRINTED/TYPED NAME			SIGNATURE					DATE			
T R	16. TRANSPORTER (1)			17.	TI	RANSPO	ORTER (2)					
A	NAME:			NAME:								
N S	TEXAS I.D. NO,			TEXAS I.D. NO.	TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMP	ERGENC	Y CONTA	CT:					
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	of receipt	of materia	EMERGENCY PH		(2): Ackr	owledgment of	receipt of n	naterial			
T E	PRINTED/TYPED NAME			PRINTED/TYPEI								
R				PRINTED/TYPEL	NAME							
	SIGNATURE	DATE	2000	SIGNATURE		Actual of		DATE				
	Lea Land, LLC	ADD	RESS:	la Markar 64 III	C II.	62/1	PHONE		87-4048			
D F	Dea Earld, EEC			le Marker 64, U. Miles East of Co			50,	373-00	37-4040			
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P I O L	WM-01-035 - New Mex	ico										
S I A T	21 DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION astes.	N: I Hereb	v certify that the above of	described	wastes we	re delivered to	this facility,	that the			
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12	1 and I live some	Vez					12,000	2) 1				

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

### LEA LAND, LLC

NOI	N-HAZARDOUS WASTE MANIF	0	116442	1. PAC	E_OF	_ 2. TRAIL	ER NO.	NO.  Jabove by proper applicable				
6	3. COMPANY NAME	4. ADDRES	S	the state of the s		5. P	ICK-UP DATE					
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	THONE NO.	CITY		STATE	PI-S	ZIP 6. T	NRCC I.D. NO		Division 10			
Е	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. CON	TAINERS Type	9. TOTAL QUANTITY	10, UNIT Wt/Vol.				
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T	NAME PHONE NO 24-HOUR EMERGENCY NO.											
	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable											
0												
	international and national government regulations, in	cluding applic	cable sta	ate regulations, and are the same materials previously approved by LEA LAND, LLC								
R	PRINTED/TYPED NAME		SIGNATURE					DATE				
m						1111						
T R	16. TRANSPORTER (1)			17.	TI	RANSPO	ORTER (2)					
A N	NAME:			NAME:								
S	TEXAS I.D. NO.			TEXAS I.D. 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

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6	3. COMPANY NAME	4. ADD	RESS			5. P	ICK-UP DATE					
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Т												
	and a comment	Jacobbod a	books the Secretary									
O	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LANI											
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D F	Lea Land, LLC			Marker 64, U. Miles East of Ca			0,	5/5-88	57-4048			
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L Y	AUTHORIZED SIGNATURE			CELL NO.	in the	DATI		TI	887-4048 ity, that the			
	LOTTER LANGE	.0					STATE OF					

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

### LEA LAND, LLC

NOI	N-HAZARDOUS WASTE MANIF	NO	116458	1. PAG	GEOF_	2, TRAIL						
C	3. COMPANY NAME	4. ADDRE	SS			5. P	PICK-UP DATE	TY EST	Te Night Si			
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E		CITY TO		STATE		ZIP 6. T	NRCC I.D. NO					
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	b.											
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	12. COMMENTS OR SPECIAL INSTRUCTIONS:			400		13. WASTE P	ROFILE N	О,				
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TT.	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO.											
T												
o	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC											
R	PRINTED/TYPED NAME	ME SIGN/							DATE			
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D F	Lea Land, LLC			Marker 64, U. files East of Ca			50,	3/3-88	37-4048			
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MILE MARKER #64 US HWY 62/180 \* 30 MILES EAST OF CARLSBAD, NM \* PHONE (575) 887-4048

### LEA LAND, LLC

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	PHONE NO.	CITY		STATE		ZIP 6. T	NRCC LD, NO					
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ID:	-		8 CON	TAINERS	9. TOTAL	10. UNIT	11. TEXAS			
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

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15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately describe shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according												
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

### LEA LAND, LLC

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# Appendix E Initial and Final C-141

#### NM OIL CONSERVATION

ARTESIA DISTRICT

District I 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 Fc, NM 87505

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. Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

RECEIVED

	a re, NM 8/303					
	ion and Corrective Action					
NAB 1625 328 642	OPERATOR Initial Report Final Report					
Name of Company: XTO Energy, Inc. 5380	Contact: Dudley McMinn					
Address: 500 W. Illinois Ave., Suite 100, Midland, TX 70701 Facility Name: Nash Draw Unit Battery #19 & #34	Telephone No.: (432) 682-8873 Facility Type: Tank Battery (Equipment Removed)					
Surface Owner: Federal Mineral Own	er: Federal API No. 30-015-27590					
LOCAT	ION OF RELEASE					
	orth/South Line   Feet from the   East/West Line   County: Eddy   South   2201   East					
	944 Longitude -103.936667					
	RE OF RELEASE					
Type of Release: Crude Oil	Valume of Release: Unknown Volume Recovered: None					
Source of Release: Spills	Date and Hour of Occurrence Date and Hour of Discovery Unknown 07-09-2016					
Was Immediate Notice Given?  ☐ Yes ☐ No ☒ Not Requi	If YES, To Whom?					
By William?	Date and Hour					
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.					
Describe Cause of Problem and Remedial Action Taken. * Hydrocarb following removal of tanks and equipment. Will remediate to OCD a	ions in soil due to historic use of tank battery reported in soil samples by laboratory and BLM requirements.					
2	Site at OCD approved facility. Refer to attached analytical data summary.					
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report is should their operations have failed to adequately investigate and remove	to the best of my knowledge and understand that pursuant to NMOCD rules and ase notifications and perform corrective actions for releases which may endanger by the NMOCD marked as "Final Report" does not relieve the operator of liability ediate contamination that pose a threat to ground water, surface water, human health out does not relieve the operator of responsibility for compliance with any other					
Signature; J.J.C.  Printed Name: Luke Williams	OIL CONSERVATION DIVISION  Approved by Environmental Specialist:					
Title: EH&S Coordinator	Approval Date: 9   8   16   Expiration Date: NIA					
E-mail Address: Luke Williams@xtoenergy.com	Conditions of Approval of C. D. Rules & Guidelines.					
Date: 09-07-2016 Phone: (432) 683-8873	SUBMIT REMEDIATION PROPOSAL NO					
Attach Additional Sheets If Necessary	LATER THAN: 1014/10 28P-3874					

#### Patterson, Heather, EMNRD

From:

Mark Larson < Mark@laenvironmental.com>

Sent:

Wednesday, September 07, 2016 4:54 PM

To:

Patterson, Heather, EMNRD

Cc:

McMinn, Dudley; Williams, Luke

Subject:

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

New Mexico

**Attachments:** 

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



www.LAEnvironmental.com

"Serving the Permian Basin Since 2000"

District I 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

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

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

**Release Notification and Corrective Action** 

Form C-141 Revised August 8, 2011

		o Toronomo della reprinta			PERA I			Initia	l Report	$\boxtimes$	Final Report
Name of Company: X'	ΓΟ Energy,	Inc.	200141001201411200000000000000000000000	Coi	Contact: Dudley McMinn						
Address: 500 W. Illino			Aidland, TX 707		Telephone No.: (432) 682-8873						
Facility Name: Nash D						e: Tank Battery		ment Rer	noved)		
	oren area esperante de la companya del companya de la companya del companya de la			-00	10 500		10	1		<b>*</b> • • •	
Surface Owner: Federa	al		Mineral O	wner: Fed	deral	10.10.20.00.00.00	.0	API No	. 30-015-27	590	_«
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	211		CONSTRUCTION OF STREET	URE O	F RELI				tecovered: N	Augusta (	
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Was a Watercourse Reached? ☐ Yes ☒ No					f YES, Vo	lume Impacting t	the Wate	rcourse.			
If a Watercourse was Imp	acted Descri	he Fully *	•					26/1945-195-194-19-19-19-19-19-19-19-19-19-19-19-19-19-	000 000 000 000		789 (
	Describe Cause of Problem and Remedial Action Taken.* Hydrocarbons in soil due to historic use of tank battery reported in soil samples by laboratory following removal of tanks and equipment. Will remediate to OCD and BLM requirements.										
Describe Area Affected a approximately 10 x 10 f approximately 2 feet bgs approximately 4 feet bgs excavation sidewalls conf 07-05 at about 4 feet bgs Landfill, LLC.	feet (DP-07-1 over areas n is from the a irmed BTEX . All excava	03) and 2 neasuring rea aroun and TPH tions were	0 x 20 feet (DP- about 10 x 20 fee d DP-07-05 meas below the RRAL: e backfilled with c	07-04 and of (DP-07-0 suring about A 20-micheller A)	DP-07-00 01, 10 x 10 ut 35 x 4 il thicknes pproximat	<ol> <li>Soil was exe</li> <li>feet (DP-07-07)</li> <li>feet. Laborate</li> <li>s liner poly line</li> <li>ely 614 cubic yas</li> </ol>	cavated ) and 15 ory result r was pla rds of co	at DP-07-1 x 15 feet its of conf aced in the ontaminated	02, DP-07-0 (DP-08). So irmation soi bottom of th d soil was di	7 and il was I samp e excar sposed	DP-07-08 to excavated to oles from the vation at DP- l at Lea Land
I hereby certify that the in regulations all operators a public health or the environ should their operations hat or the environment. In ad- federal, state, or local law	re required to conment. The eve failed to a dition, NMC	report ar acceptance dequately CD accep	nd/or file certain re ce of a C-141 reporting and re	elease notif of by the N emediate co	fications a MOCD m ontaminati	nd perform correct arked as "Final R on that pose a thr	ctive acti teport" d reat to gr	ons for rel oes not rel ound wate	eases which ieve the oper r, surface wa	may en ator of ter, hui	idanger `liability man health
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Signature:	Ans	proved by	Environmental S	Inacialist	Brace	Mard	BiW	linas.			
Printed Name: Luke Willi	<i>(</i> 5)	pro red by	ion ricinitional of		·······································	0 000					
Title: EH&S Coordinator	1	** 60.000 DDDDDDDDD	en e	Ap	proval Da	le: 11/19/201	9 1	Expiration	Date:		2
E-mail Address: Luke_W	illiams@xtoo	energy.com	n	Coi	nditions o	f Approval:			Attached	Attached	
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