

2RP-3874
REMEDIATION PLAN
Nash Draw Tank Battery #19 & #34
Eddy County, New Mexico

LAI Project No. 16-0108-07

November 2, 2016

Prepared for:

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

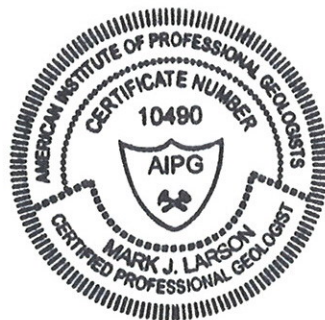
Prepared by:

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Mark J. Larson, P.G.

Certified Professional Geologist #10490



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1.0 INTRODUCTION

This document is prepared by Larson & Associates, Inc. (LAI) on behalf of XTO Energy, Inc. (XTO) for submittal to the New Mexico Oil Conservation Division (OCD) District 2 and U.S. Bureau of Land Management (BLM) to present the investigation results and remediation plan for contamination at the Nash Draw Unit tank battery #19 & #34 (Site). XTO consolidated production from several tank batteries into a three (3) tank batteries therefore the tank battery is no longer needed and is being remediated

. Equipment was removed from the Site in early 2016 to allow for the soil investigation and remediation. On September 7, 2016, XTO submitted the initial C-141 to OCD District 2 and the Site was assigned remediation permit number 2RP-3874. 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 32.316944° and West -103.936667°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Setting

The setting is as follows:

- Elevation is approximately 3,000 feet above mean sea level (AMSL);
- Topography slopes north and south towards a playa lake (Salt Lake);
- The nearest surface water feature is 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 New Mexico Office of the State Engineer (NMOSE) records a well is located about 2.00 miles south in Unit J, Section 24, Township 23 South, Range 29 East, with groundwater reported at about 54 feet below ground surface (bgs).

1.2 Remediation Action Levels

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

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

1.3 Investigation Soil Samples

Investigation soil samples were collected 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) between ground surface and approximately four (4) feet bgs. No background sample was collected or chloride analysis performed due to close proximity of the playa lake. The samples were tested for headspace vapors with a calibrated photoionization detector (PID) and all were less than 100 parts per million (ppm). Permian Basin Environmental Lab (PBEL) located in Midland, Texas, analyzed the samples for total petroleum hydrocarbons (TPH) including gasoline (GRO), diesel (DRO) and oil (ORO) range organics by EPA SW-846 Method 8015. Table 1 presents the investigation sample laboratory analytical data summary. Figure 3 presents a Site drawing and sample locations. Appendix A presents the laboratory reports.

Referring to Table 1, the RRAL for TPH was exceeded in samples from locations DP-07-01 through DP-07-08.

2.0 REMEDIATION PLAN

XTO proposes to excavate soil from the area approximately 10 x 20 feet based on field observations, around DP-07-01 and DP-07-02 to approximately 2 feet bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavations will be filled to surface with clean soil.

Soil will be excavated from the area approximately 10 x 10 feet based on field observations, around DP-07-03 to about 1 foot bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavations will be filled to surface with clean soil.

Soil will be excavated from the area approximately 20 x 20 feet based on field observations, around DP-07-04 and DP-07-06 to approximately 1 foot bgs

. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavations will be filled to surface with clean soil.

Soil will be excavated from the area approximately 30 x 30 feet based on field observations, around DP-07-05 to about 4 feet bgs. Samples will be collected from the excavation sidewalls for laboratory analysis (BTEX and TPH) to determine if concentrations are below the RRAL. Additional soil will be removed as necessary to achieve the RRAL. A 20 mil thickness liner will be placed in the bottom of the excavation and filled to surface with clean soil.

Soil will be excavated from the area approximately 10 x 10 feet based on field observations, around DP-07-07 to approximately 2 feet bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavations will be filled to surface with clean soil.

Soil will be excavated from the area approximately 15 x 15 feet based on field observations, around DP-07-08 to approximately 2 feet bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavations will be filled to surface with clean soil.

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

Tables

Table 1

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
N32.316944° W-103.936667°

Location	Depth (Feet)	Collection Date	Status	C6 - C12 (mg/Kg)	>C12 - C28 (mg/Kg)	>C28 - C35 (mg/Kg)	TPH (mg/Kg)
OCD RRAL:							100
DP-07-07	1 - 2	6/22/2016	In-Situ	--	--	--	--
	2 - 3	6/22/2016	In-Situ	--	--	--	--
	3 - 4	6/22/2016	In-Situ	--	--	--	--
	0 - 1	6/22/2016	In-Situ	810	22,500	4,350	27,660
DP-07-08	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
	0 - 1	6/22/2016	In-Situ	994	15,400	3,470	19,864
DP-07-08	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 guidance document (August 13, 1993)

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

FIGURES

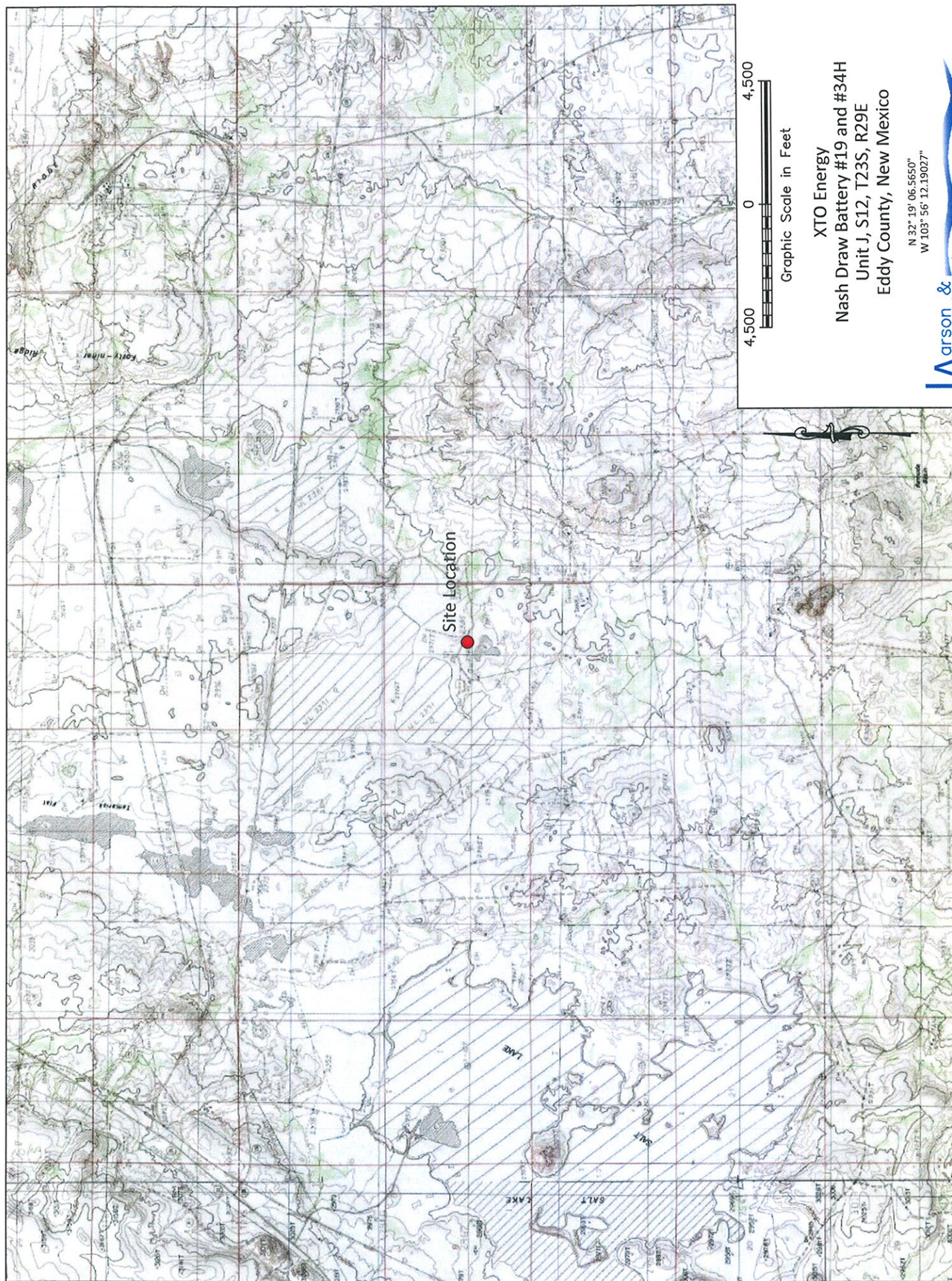


Figure 1 - Topographical Map

XTO Energy
Nash Draw Battery #19 and #34H
Unit J, S12, T23S, R29E
Eddy County, New Mexico

N 32° 19' 06.5650"
W 103° 56' 12.19027"

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Environmental Consultants



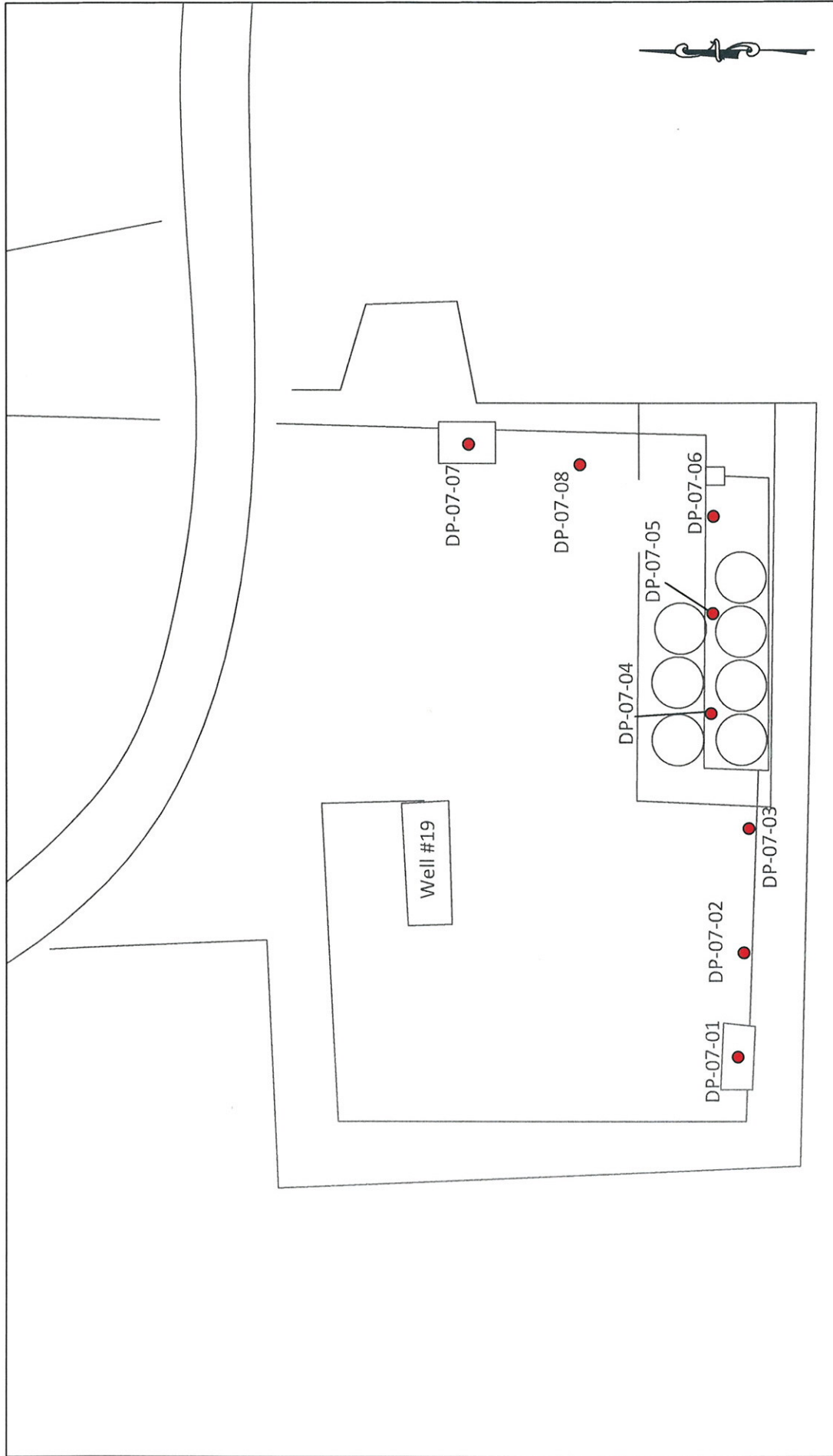
100 0 100
Graphic Scale in Feet

XTO Energy
Nash Draw Battery #19 and #34H
Unit J, S12, T23S, R29E
Eddy County, New Mexico

N 32° 19' 06.5650"
W 103° 56' 12.19027"

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Environmental Consultants

Figure 2 - Aerial Map



50 0 50
Graphic Scale in Feet

XTO Energy
Nash Draw Battery #19 and #34H
Unit J, S12, T23S, R29E
Eddy County, New Mexico

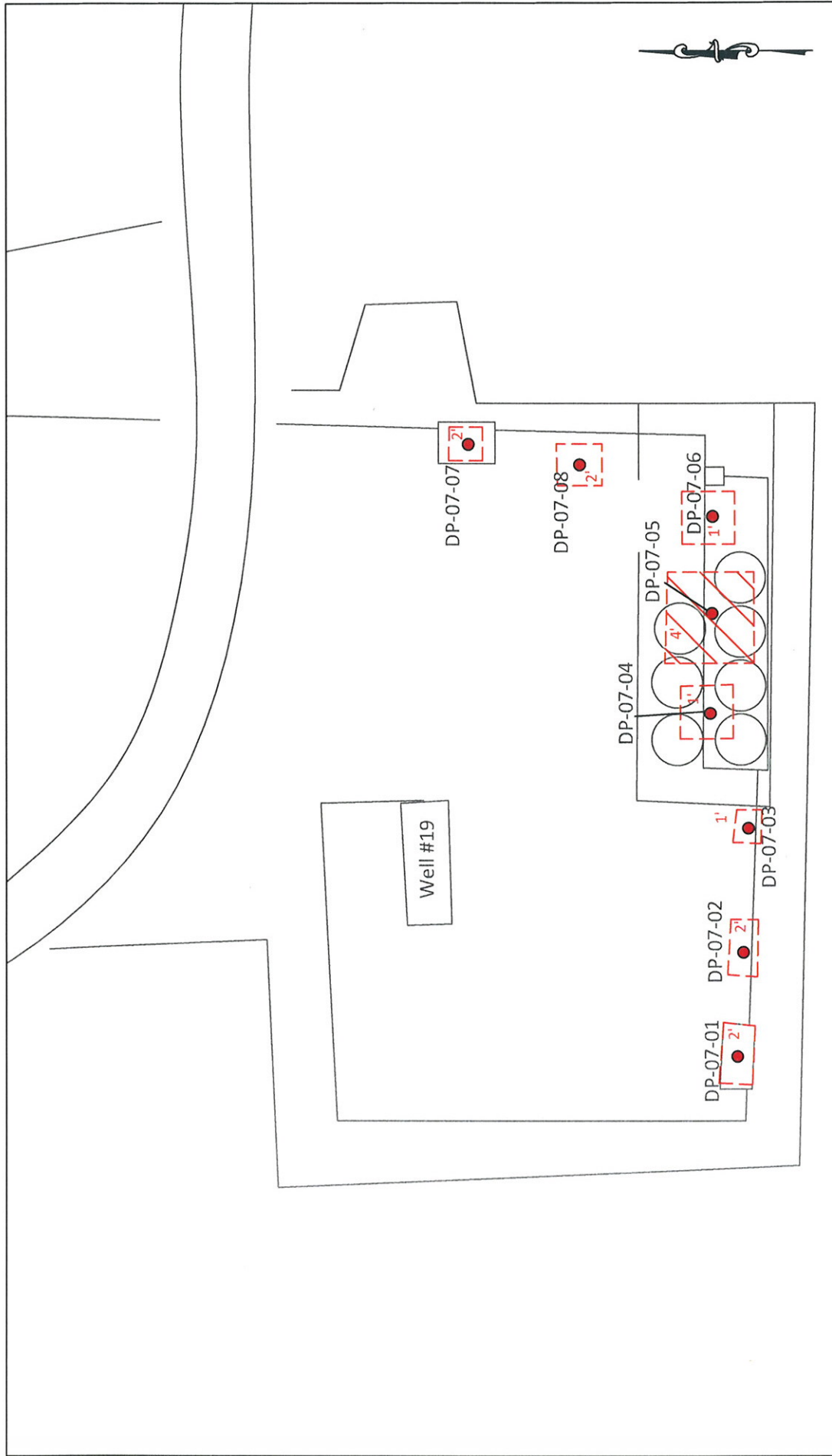
N 32° 19' 06.5650"
W 103° 56' 12.19027"

Larson & Associates, Inc.
Environmental Consultants

Legend

DP-07-01 ● - Soil Sample Location

Figure 3 - Site Map Showing Soil Sample Locations



50 0 50
Graphic Scale in Feet

XTO Energy
Nash Draw Battery #19 and #34H
Unit J, S12, T23S, R29E
Eddy County, New Mexico

N 32° 19' 06.5650"
W 103° 56' 12.19027"

Larson & Associates, Inc.
Environmental Consultants

Legend

 - Proposed Excavation (Approximate) with Polyethylene Liner (20 mil) and Depth, feet bgs

 - Proposed Excavation and Depth, feet bgs

 - Soil Sample Location

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

APPENDIX A

Laboratory Reports

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



Analytical Report

Prepared for:

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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: 6F26009



NELAP/TCEQ # T104704156-13-3

Report Date: 07/09/16

Larson & Associates, Inc.
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-07-01 (0-1)	6F26009-01	Soil	06/24/16 12:40	06-24-2016 16:30
DP-07-01 (1-2)	6F26009-02	Soil	06/24/16 12:40	06-24-2016 16:30
DP-07-01 (2-3)	6F26009-03	Soil	06/24/16 12:40	06-24-2016 16:30
DP-07-02 (0-1)	6F26009-04	Soil	06/24/16 12:45	06-24-2016 16:30
DP-07-02 (1-2)	6F26009-05	Soil	06/24/16 12:45	06-24-2016 16:30
DP-07-02 (2-3)	6F26009-06	Soil	06/24/16 12:45	06-24-2016 16:30
DP-07-02 (3-4)	6F26009-07	Soil	06/24/16 12:45	06-24-2016 16:30
DP-07-03 (0-1)	6F26009-08	Soil	06/24/16 12:55	06-24-2016 16:30
DP-07-03 (1-2)	6F26009-09	Soil	06/24/16 12:55	06-24-2016 16:30
DP-07-03 (2-3)	6F26009-10	Soil	06/24/16 12:55	06-24-2016 16:30
DP-07-04 (0-1)	6F26009-12	Soil	06/24/16 13:00	06-24-2016 16:30
DP-07-05 (0-1)	6F26009-13	Soil	06/24/16 13:10	06-24-2016 16:30
DP-07-05 (1-2)	6F26009-14	Soil	06/24/16 13:10	06-24-2016 16:30
DP-07-05 (2-3)	6F26009-15	Soil	06/24/16 13:10	06-24-2016 16:30
DP-07-06 (0-1)	6F26009-16	Soil	06/24/16 13:15	06-24-2016 16:30
DP-07-07 (0-1)	6F26009-20	Soil	06/24/16 13:20	06-24-2016 16:30
DP-07-07 (1-2)	6F26009-21	Soil	06/24/16 13:20	06-24-2016 16:30
DP-07-07 (2-3)	6F26009-22	Soil	06/24/16 13:20	06-24-2016 16:30
DP-07-07 (3-4)	6F26009-23	Soil	06/24/16 13:20	06-24-2016 16:30
DP-07-08 (0-1)	6F26009-24	Soil	06/24/16 13:25	06-24-2016 16:30
DP-07-08 (1-2)	6F26009-25	Soil	06/24/16 13:25	06-24-2016 16:30
DP-07-08 (2-3)	6F26009-26	Soil	06/24/16 13:25	06-24-2016 16:30
DP-07-08 (3-4)	6F26009-27	Soil	06/24/16 13:25	06-24-2016 16:30
DP-07-BG (0-1)	6F26009-28	Soil	06/24/16 13:30	06-24-2016 16:30

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Midland TX, 79710

Project: Nash Draw 19 & 34
Project Number: 16-0108-07
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-07-01 (0-1)

6F26009-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	977	5.88	mg/kg dry	5	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	15.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	31.0	29.4	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C12-C28	547	29.4	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C28-C35	115	29.4	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		142 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	692	29.4	mg/kg dry	1	[CALC]	06/27/16	06/27/16	calc	

Larson & Associates, Inc.	Project: Nash Draw 19 & 34	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 16-0108-07	
Midland TX, 79710	Project Manager: Mark Larson	

DP-07-01 (1-2)

6F26009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1970	140	mg/kg dry	5	P6G0704	07/01/16	07/03/16	TPH 8015M	
>C12-C28	21400	140	mg/kg dry	5	P6G0704	07/01/16	07/03/16	TPH 8015M	
>C28-C35	3060	140	mg/kg dry	5	P6G0704	07/01/16	07/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-130		P6G0704	07/01/16	07/03/16	TPH 8015M	
Surrogate: o-Terphenyl		156 %	70-130		P6G0704	07/01/16	07/03/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	26500	140	mg/kg dry	5	[CALC]	07/01/16	07/03/16	calc	

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Midland TX, 79710

Project: Nash Draw 19 & 34
Project Number: 16-0108-07
Project Manager: Mark Larson

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DP-07-01 (2-3)

6F26009-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	8.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C12-C28	ND	27.2	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C28-C35	ND	27.2	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: 1-Chlorooctane		110 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: o-Terphenyl		121 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc

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Project Number: 16-0108-07
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DP-07-02 (0-1)

6F26009-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1520	27.8	mg/kg dry	25	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	139	mg/kg dry	5	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C12-C28	20300	139	mg/kg dry	5	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C28-C35	5330	139	mg/kg dry	5	P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	25600	139	mg/kg dry	5	[CALC]	06/27/16	06/27/16	calc	

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DP-07-02 (1-2)

6F26009-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	13.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	39.2	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C12-C28	286	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C28-C35	71.2	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: 1-Chlorooctane		111 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: o-Terphenyl		120 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	396	28.7	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc

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DP-07-02 (2-3)

6F26009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	13.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	72.5	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C12-C28	31.7	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C28-C35	ND	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: 1-Chlorooctane		109 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: o-Terphenyl		120 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	104	28.7	mg/kg dry	1	{CALC}	07/01/16	07/02/16	calc

Larson & Associates, Inc.
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Midland TX, 79710

Project: Nash Draw 19 & 34
Project Number: 16-0108-07
Project Manager: Mark Larson

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DP-07-02 (3-4)

6F26009-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	16.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		127 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		141 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc	

Larson & Associates, Inc.
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-07-03 (0-1)

6F26009-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	2000	28.4	mg/kg dry	25	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	12.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C12-C28	750	28.4	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C28-C35	244	28.4	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	994	28.4	mg/kg dry	1	[CALC]	06/27/16	06/27/16	calc	

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DP-07-03 (1-2)

6F26009-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	13.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc	

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DP-07-03 (2-3)
6F26009-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	16.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		130 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		147 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc	

Permian Basin Environmental Lab, L.P.

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DP-07-04 (0-1)

6F26009-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	703	11.0	mg/kg dry	10	P6F2914	06/29/16	06/29/16	EPA 300.0
% Moisture	9.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M
>C12-C28	359	27.5	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M
>C28-C35	97.4	27.5	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M
Surrogate: 1-Chlorooctane		109 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M
Surrogate: o-Terphenyl		124 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	456	27.5	mg/kg dry	1	[CALC]	06/27/16	06/27/16	calc

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DP-07-05 (0-1)
6F26009-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	36.2	10.8	mg/kg dry	10	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	7.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	216	26.9	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C12-C28	5530	26.9	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C28-C35	1560	26.9	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	7310	26.9	mg/kg dry	1	[CALC]	06/27/16	06/27/16	calc	

Permian Basin Environmental Lab, L.P.

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DP-07-05 (1-2)

6F26009-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	33.0	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C12-C28	1400	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C28-C35	254	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: 1-Chlorooctane		109 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: o-Terphenyl		121 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	1680	28.1	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc

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DP-07-05 (2-3)

6F26009-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	37.5	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C12-C28	87.2	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		128 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	125	28.1	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc	

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DP-07-06 (0-1)

6F26009-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	5090	55.6	mg/kg dry	50	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C12-C28	102	27.8	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C28-C35	98.7	27.8	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		134 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	200	27.8	mg/kg dry	1	[CALC]	06/27/16	06/27/16	calc	

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DP-07-07 (0-1)

6F26009-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	3250	27.5	mg/kg dry	25	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	810	275	mg/kg dry	10	P6F2811	06/27/16	06/28/16	TPH 8015M	
>C12-C28	22500	275	mg/kg dry	10	P6F2811	06/27/16	06/28/16	TPH 8015M	
>C28-C35	4350	275	mg/kg dry	10	P6F2811	06/27/16	06/28/16	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P6F2811	06/27/16	06/28/16	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P6F2811	06/27/16	06/28/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	27700	275	mg/kg dry	10	[CALC]	06/27/16	06/28/16	calc	

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DP-07-07 (1-2)

6F26009-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	72.8	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C12-C28	1360	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
>C28-C35	186	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: 1-Chlorooctane		119 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Surrogate: o-Terphenyl		129 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	1620	28.1	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc

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DP-07-07 (2-3)

6F26009-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C12-C28	75.6	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	75.6	28.1	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc	

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DP-07-07 (3-4)

6F26009-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	17.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	64.1	30.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C12-C28	32.1	30.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		129 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		149 %	70-130		P6G0707	07/01/16	07/02/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	96.2	30.1	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc	

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DP-07-08 (0-1)

6F26009-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	531	1.10	mg/kg dry	1	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	994	275	mg/kg dry	10	P6F2811	06/27/16	06/28/16	TPH 8015M	
>C12-C28	15400	275	mg/kg dry	10	P6F2811	06/27/16	06/28/16	TPH 8015M	
>C28-C35	3470	275	mg/kg dry	10	P6F2811	06/27/16	06/28/16	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P6F2811	06/27/16	06/28/16	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P6F2811	06/27/16	06/28/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	19800	275	mg/kg dry	10	[CALC]	06/27/16	06/28/16	calc	

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DP-07-08 (1-2)

6F26009-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	12.0	0.1	%	1	P6G0808	07/07/16	07/07/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	36.2	28.4	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C12-C28	408	28.4	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C28-C35	72.6	28.4	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: o-Terphenyl		144 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	517	28.4	mg/kg dry	1	[CALC]	07/01/16	07/05/16	calc	

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DP-07-08 (2-3)

6F26009-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	18.0	0.1	%	1	P6G0808	07/07/16	07/07/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C12-C28	47.7	30.5	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	47.7	30.5	mg/kg dry	1	[CALC]	07/01/16	07/05/16	calc	

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DP-07-08 (3-4)

6F26009-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	17.0	0.1	%	1	P6G0808	07/07/16	07/07/16	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: o-Terphenyl		149 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	07/01/16	07/05/16	calc	

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.
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-BG (0-1)

6F26009-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	237	1.04	mg/kg dry	1	P6F2914	06/29/16	06/29/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P6F2805	06/27/16	06/28/16	TPH 8015M	
>C12-C28	89.8	26.0	mg/kg dry	1	P6F2805	06/27/16	06/28/16	TPH 8015M	
>C28-C35	54.6	26.0	mg/kg dry	1	P6F2805	06/27/16	06/28/16	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P6F2805	06/27/16	06/28/16	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P6F2805	06/27/16	06/28/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	144	26.0	mg/kg dry	1	[CALC]	06/27/16	06/28/16	calc	

Larson & Associates, Inc.
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

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
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Batch P6F2901 - * DEFAULT PREP *****

Blank (P6F2901-BLK1)				Prepared & Analyzed: 06/29/16						
% Moisture	ND	0.1	%							
Duplicate (P6F2901-DUP1)				Source: 6F26010-37 Prepared & Analyzed: 06/29/16						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P6F2901-DUP2)				Source: 6F26008-08 Prepared & Analyzed: 06/29/16						
% Moisture	11.0	0.1	%		12.0			8.70	20	
Duplicate (P6F2901-DUP3)				Source: 6F26008-12 Prepared & Analyzed: 06/29/16						
% Moisture	7.0	0.1	%		7.0			0.00	20	

Batch P6F2914 - * DEFAULT PREP *****

Blank (P6F2914-BLK1)				Prepared & Analyzed: 06/29/16						
Chloride	ND	1.00	mg/kg wet							
LCS (P6F2914-BS1)				Prepared & Analyzed: 06/29/16						
Chloride	175	1.00	mg/kg wet	200		87.3	80-120			
LCS Dup (P6F2914-BSD1)				Prepared & Analyzed: 06/29/16						
Chloride	176	1.00	mg/kg wet	200		88.2	80-120	1.08	20	
Duplicate (P6F2914-DUP1)				Source: 6F26008-08 Prepared & Analyzed: 06/29/16						
Chloride	1640	28.4	mg/kg dry		1600			2.31	20	
Duplicate (P6F2914-DUP2)				Source: 6F26009-28 Prepared & Analyzed: 06/29/16						
Chloride	242	1.04	mg/kg dry		237			2.23	20	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.	Project: Nash Draw 19 & 34	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 16-0108-07	
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
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Batch P6F2914 - * DEFAULT PREP *****

Matrix Spike (P6F2914-MS1)	Source: 6F26008-08			Prepared & Analyzed: 06/29/16						
Chloride	13300	28.4	mg/kg dry	9090	1600	129	80-120			QM-07

Batch P6G0501 - * DEFAULT PREP *****

Blank (P6G0501-BLK1)	Prepared & Analyzed: 07/05/16									
% Moisture	ND	0.1	%							
Duplicate (P6G0501-DUP1)	Source: 6F26006-06			Prepared & Analyzed: 07/05/16						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P6G0501-DUP2)	Source: 6F26009-23			Prepared & Analyzed: 07/05/16						
% Moisture	14.0	0.1	%		17.0			19.4	20	
Duplicate (P6G0501-DUP3)	Source: 6G01003-01			Prepared & Analyzed: 07/05/16						
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P6G0501-DUP4)	Source: 6G01008-02			Prepared & Analyzed: 07/05/16						
% Moisture	13.0	0.1	%		12.0			8.00	20	

Batch P6G0808 - * DEFAULT PREP *****

Blank (P6G0808-BLK1)	Prepared & Analyzed: 07/07/16									
% Moisture	ND	0.1	%							
Duplicate (P6G0808-DUP1)	Source: 6F26009-27			Prepared & Analyzed: 07/07/16						
% Moisture	15.0	0.1	%		17.0			12.5	20	

Larson & Associates, Inc.
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

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
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Batch P6F2811 - TX 1005

Blank (P6F2811-BLK1)

Prepared & Analyzed: 06/27/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.1		"	100		89.1	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		99.0	70-130			

LCS (P6F2811-BS1)

Prepared & Analyzed: 06/27/16

C6-C12	872	25.0	mg/kg wet	1000		87.2	75-125			
>C12-C28	1150	25.0	"	1000		115	75-125			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.3	70-130			

LCS Dup (P6F2811-BSD1)

Prepared & Analyzed: 06/27/16

C6-C12	886	25.0	mg/kg wet	1000		88.6	75-125	1.55	20	
>C12-C28	1160	25.0	"	1000		116	75-125	0.768	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	45.8		"	50.0		91.5	70-130			

Batch P6G0704 - TX 1005

Blank (P6G0704-BLK1)

Prepared: 07/01/16 Analyzed: 07/02/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	87.6		"	100		87.6	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.2	70-130			

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Midland TX, 79710

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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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6G0704 - TX 1005

LCS (P6G0704-BS1)

Prepared: 07/01/16 Analyzed: 07/02/16

C6-C12	957	25.0	mg/kg wet	1000		95.7	75-125			
>C12-C28	1150	25.0	"	1000		115	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			

LCS Dup (P6G0704-BSD1)

Prepared: 07/01/16 Analyzed: 07/02/16

C6-C12	963	25.0	mg/kg wet	1000		96.3	75-125	0.642	20	
>C12-C28	1160	25.0	"	1000		116	75-125	0.479	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	53.5		"	50.0		107	70-130			

Matrix Spike (P6G0704-MS1)

Source: 6F26009-25

Prepared: 07/01/16 Analyzed: 07/05/16

C6-C12	1080	28.4	mg/kg dry	1140	36.2	91.5	75-125			
>C12-C28	1780	28.4	"	1140	408	121	75-125			
Surrogate: 1-Chlorooctane	157		"	136		115	70-130			
Surrogate: o-Terphenyl	80.9		"	68.2		119	70-130			

Matrix Spike Dup (P6G0704-MSD1)

Source: 6F26009-25

Prepared: 07/01/16 Analyzed: 07/05/16

C6-C12	1030	28.4	mg/kg dry	1140	36.2	87.8	75-125	4.14	20	
>C12-C28	1680	28.4	"	1140	408	112	75-125	7.73	20	
Surrogate: 1-Chlorooctane	153		"	114		135	70-130			S-GC
Surrogate: o-Terphenyl	74.0		"	56.8		130	70-130			

Batch P6G0707 - TX 1005

Blank (P6G0707-BLK1)

Prepared: 07/01/16 Analyzed: 07/02/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	99.2		"	100		99.2	70-130			
Surrogate: o-Terphenyl	51.6		"	50.0		103	70-130			

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.	Project: Nash Draw 19 & 34	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 16-0108-07	
Midland TX, 79710	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
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Batch P6G0707 - TX 1005

LCS (P6G0707-BS1)

Prepared: 07/01/16 Analyzed: 07/02/16

C6-C12	920	25.0	mg/kg wet	1000		92.0	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.2	70-130			

LCS Dup (P6G0707-BSD1)

Prepared: 07/01/16 Analyzed: 07/02/16

C6-C12	945	25.0	mg/kg wet	1000		94.5	75-125	2.61	20	
>C12-C28	1100	25.0	"	1000		110	75-125	3.25	20	
Surrogate: 1-Chlorooctane	131		"	100		131	70-130			S-GC
Surrogate: o-Terphenyl	57.8		"	50.0		116	70-130			

Larson & Associates, Inc.
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

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.

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

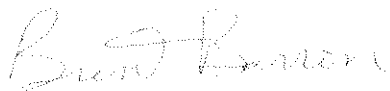
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/9/2016

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.

Aarson &
associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 6-24-16 PAGE 1 OF 2
PO #: LAB WORK ORDER # 6F260097
PROJECT LOCATION OR NAME: Nash Draw 19 3/3-1
LAI PROJECT #: 16-0103-07 COLLECTOR: TCU

Page 33 of 34

Data Reported to:

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE: Time Zone/State:		PRESERVATION		ANALYSES		TURN AROUND TIME		LABORATORY USE ONLY:	
☐ Yes ☒ No								HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED		BTEX ☐ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☒ CRO 805 ☒ DIESEL - MOD 8015 ☒ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RO ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PENTACHLORATE ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐		1 DAY ☐ 2 DAY ☐ OTHER ☒ 3 day		RECEIVING TEMP. ☐ THERM # ☐ CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # ☐ ☐ HAND DELIVERED	
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers										
DR-07-01 (0-1)	-01	6-22-16	12:40	S	1										
(1-2)	-02														
(2-3)	-03														
DR-07-02 (0-1)	-04		12:45												
(1-2)	-05														
(2-3)	-06														
(3-4)	-07														
DR-07-03 (0-1)	-08		12:55												
(1-2)	-09														
(2-3)	-10														
(3-4)	-11														
DR-07-04 (0-1)	-12		1:00												
DR-07-05 (0-1)	-13		1:10												
(1-2)	-14														
(2-3)	-15														
TOTAL															
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME															
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME															
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME															

Data Reported to:

DATE: 6-24-16 LAB WORK ORDER #: 6F26009
PO #: _____ PROJECT LOCATION OR NAME: Nash Dam 19, 34
LAI PROJECT #: 16-0108-07 COLLECTOR: TC

CHAIN-OF-CUSTODY

TRRP report?
☐ Yes ☒ No

TIME ZONE:
Time zone/State:
W/M

S=SOIL
W=WATER
A=AIR

P=PAINT
SL=SLUDGE
OT=OTHER

6F26009

PRESERVATION

HCl
HNO₃
H₂SO₄ ☐ NaOH ☐
ICE
UNPRESERVED

ANALYSES

BTEX ☐ MTBE ☐
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☒
VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐
8081 PESTICIDES ☐ 8151 HERBICIDES ☐
8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐
TCLP - PEST ☐ HERB ☐ Semi-VOC ☐
TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐
LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
pH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PECHLORATE ☐
CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐	NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
DP-07-06 (6-1)	-16	6-23-16	1:15	S	2							☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☒ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(1-2)	-17											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(2-3)	-18											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(3-4)	-19											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
DP-07-07 (6-1)	-20		1:20									☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(1-2)	-21											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(2-3)	-22											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(3-4)	-23											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
DP-07-08 (6-1)	-24		1:25									☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(1-2)	-25											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(2-3)	-26											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
(3-4)	-27											☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	
DP-07-36 (6-1)	-28		1:30									☒ BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBs ☐ TCLP - METALS (ROR) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (ROR) ☐ D.W. 200.8 ☐ TCLP ☐ LEAD - TOTAL ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	

TOTAL

RELINQUISHED BY: (Signature) TC DATE/TIME 1:30 6/24/16 RECEIVED BY: (Signature) _____

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____

RELINQUISHED BY: (Signature) _____ DATE/TIME 10:30 6/24/16 RECEIVED BY: (Signature) Marson Martin

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☒ 3 day

LABORATORY USE ONLY:
RECEIVING TEMP: 6-0 THERM #: _____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Larson & Associates, Inc.P.O. Box 50685
Midland TX, 79710
SAMPLED: 06/24/16
RECEIVED: 06-24-201

Project: Nash Draw 19 & 34

Project Number: 16-0108-07

Project Manager: Mark Larson

REPORTED: 06/29/16 19:53

LAB #		6F26009-01	6F26009-04	6F26009-08	6F26009-12	6F26009-13	6F26009-16
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE ID	Reporting Limit	DP-07-01 (0-1)	DP-07-02 (0-1)	DP-07-03 (0-1)	DP-07-04 (0-1)	DP-07-05 (0-1)	DP-07-06 (0-1)

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M (Soil)

>C12-C28	25.0 mg/kg dry	547	20300	750	359	5530	102
>C28-C35	25.0 mg/kg dry	115	5330	244	97.4	1560	98.7
1-Chlorooctane	130 [surr]	124%	100%	111%	109%	123%	117%
o-Terphenyl	130 [surr]	142% [2]	112%	124%	124%	137% [2]	134% [2]
Total Petroleum Hydrocarbon C6-C35	139 mg/kg dry	-	25600	-	-	-	-

General Chemistry Parameters by EPA / Standard Methods (Soil)

Chloride	1.00 mg/kg dry	977	1520	2000	703	36.2	5090
% Moisture	0.1 %	15.0	10.0	12.0	9.0	7.0	10.0

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M (Soil)

C6-C12	25.0 mg/kg dry	31.0	<139	<28.4	<27.5	216	<27.8
Total Petroleum Hydrocarbon C6-C35	26.9 mg/kg dry	-	-	-	-	7310	-
Total Petroleum Hydrocarbon C6-C35	27.5 mg/kg dry	-	-	-	456	-	-
Total Petroleum Hydrocarbon C6-C35	27.8 mg/kg dry	-	-	-	-	-	200
Total Petroleum Hydrocarbon C6-C35	28.4 mg/kg dry	-	-	994	-	-	-
Total Petroleum Hydrocarbon C6-C35	29.4 mg/kg dry	692	-	-	-	-	-

DRAFT REPORT**DRAFT REPORT**

DATA SUBJECT TO CHANGE

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.

Larson & Associates, Inc.

P.O. Box 50685

Midland TX, 79710

SAMPLED: 06/24/16**RECEIVED:** 06-24-201

Project: Nash Draw 19 & 34

Project Number: 16-0108-07

Project Manager: Mark Larson

REPORTED: 06/29/16 19:53

LAB #		6F26009-20	6F26009-24	6F26009-28	-	-	-
MATRIX	Minimum	Soil	Soil	Soil	-	-	-
SAMPLE ID	Reporting Limit	DP-07-07 (0-1)	DP-07-08 (0-1)	DP-07-BG (0-1)	-	-	-

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M (Soil)

>C12-C28	25.0 mg/kg dry	22500	15400	89.8	-	-	-
>C28-C35	25.0 mg/kg dry	4350	3470	54.6	-	-	-
1-Chlorooctane	130 [surr]	114%	120%	114%	-	-	-
o-Terphenyl	130 [surr]	110%	105%	114%	-	-	-

General Chemistry Parameters by EPA / Standard Methods (Soil)

Chloride	1.00 mg/kg dry	3250	531	237	-	-	-
% Moisture	0.1 %	9.0	9.0	4.0	-	-	-

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M (Soil)

C6-C12	25.0 mg/kg dry	810	994	<26.0	-	-	-
Total Petroleum Hydrocarbon C6-C35	26.0 mg/kg dry	-	-	144	-	-	-
Total Petroleum Hydrocarbon C6-C35	275 mg/kg dry	27700	19800	-	-	-	-

Special Notes

- = The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- = Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

DRAFT REPORT**DRAFT REPORT**

DATA SUBJECT TO CHANGE

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.

Aarson &
associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 6-24-16 PAGE 1 OF 2
PO #: _____ LAB WORK ORDER #: 6F26009
PROJECT LOCATION OR NAME: Nash Drive 19 1/2 3-1
PROJECT #: 16-0108-C7 COLLECTOR: TL

COLLECTOR: TW

TRRP report?		S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	PRESERVATION		ANALYSES		LABORATORY USE ONLY:			
☐ Yes	☒ No			HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☒ CRO 905 ☒ DIESEL - MOD 8015 ☒ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ VOC 8260 ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ R/C ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	TURN AROUND TIME ☒ NORMAL ☐ 1 DAY ☐ 2 DAY ☐ OTHER 3 day	RECEIVING TEMP: 60 CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # ☐ HAND DELIVERED
TIME ZONE: Time zone/State:	Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers			FIELD NOTES		
NWP	DR-07-01(0-1)	-01	6-22-16	12:40	S	1	X				
	(1-2)	-02									
	(2-3)	-03									
	DR-07-02(0-1)	-04		12:45							
	(1-2)	-05									
	(2-3)	-06									
	(3-4)	-07									
	DR-07-03(0-1)	-08		12:55							
	(1-2)	-09									
	(2-3)	-10									
	(3-4)	-11									
	DR-07-04(0-1)	-12		1:00							
	DR-07-05(0-1)	-13		1:10							
	(1-2)	-14									
	(2-3)	-15									
TOTAL											
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	TURN AROUND TIME							
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	LABORATORY USE ONLY:							
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED							
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	☐ CARRIER BILL #							
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	☐ HAND DELIVERED							

Varson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 6-24-16 PAGE 2 OF 2
PO #: _____ LAB WORK ORDER #: 6F26009
PROJECT LOCATION OR NAME: Nash Draw 19, 34
LAI PROJECT #: 16-0108-G7 COLLECTOR: TC

Data Reported to:

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE: Time zone/State:		PRESERVATION		ANALYSES		TURN AROUND TIME		LABORATORY USE ONLY:	
☐ Yes ☒ No						6F=26009		☐ HCl ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ ICE ☐ UNPRESERVED		BTEX ☐ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TCIP - METALS (RCRA) ☐ TQLP VOC ☐ TQLP - PEST ☐ HERB ☐ SEMI-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TQLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECTHLORATE ☐ CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐		1 DAY ☐ 2 DAY ☐ OTHER ☒ 3 day		RECEIVING TEMP: CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED CARRIER BILL # HAND DELIVERED ☐	
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers										
DP-07-06 (0-1)	-16	6-28-16	1:15	S	2										
(1-2)	-17														
(2-3)	-18														
(3-4)	-19														
DP-07-07 (0-1)	-20		1:20												
(1-2)	-21														
(2-3)	-22														
(3-4)	-23														
DP-07-08 (0-1)	-24		1:25												
(1-2)	-25														
(2-3)	-26														
(3-4)	-27														
DP-07-09 (0-1)	-28		1:30												
TOTAL															
REINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		THERM #:	
REINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		THERM #:	
REINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		THERM #:	
REINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		THERM #:	

APPENDIX B

Initial 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 Bruzos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

SEP 07 2016
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB 1625328642

OPERATOR

☒ Initial Report ☐ Final Report

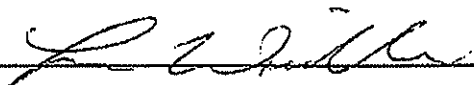
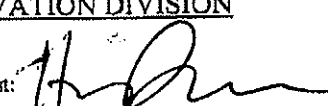
Name of Company: XTO Energy, Inc. 5380	Contact: Dudley McMinn
Address: 500 W. Illinois Ave., Suite 100, Midland, TX 70701	Telephone No.: (432) 682-8873
Facility Name: Nash Draw Unit Battery #19 & #34	Facility Type: Tank Battery (Equipment Removed)
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-27590	

LOCATION OF RELEASE

Unit Letter J	Section 12	Township 23S	Range 29E	Feet from the 2202	North/South Line South	Feet from the 2201	East/West Line East	County: Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	--------------

Latitude 32.316944 Longitude -103.936667

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Spills	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 07-09-2016
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Hydrocarbons in soil due to historic use of tank battery reported in soil samples by laboratory following removal of tanks and equipment. Will remediate to OCD and BLM requirements.		
Describe Area Affected and Cleanup Action Taken.* Affected soil to be excavated, treated onsite treatment or disposed offsite at OCD approved facility. Refer to attached analytical data summary.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Luke Williams	Approved by Environmental Specialist: 	
Title: EH&S Coordinator	Approval Date: 9/8/16	Expiration Date: N/A
E-mail Address: Luke.Williams@xtoenergy.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached ☐	
Date: 09-07-2016	SUBMIT REMEDIATION PROPOSAL NO. 1019116	
Phone: (432) 683-8873	LATER THAN: 10/19/16	

* Attach Additional Sheets If Necessary

2RP-3874