

2RP-3871
REMEDIATION PLAN
Nash Draw Tank Battery #36
Eddy County, New Mexico

LAI Project No. 16-0108-06

November 2, 2016

Prepared for:

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

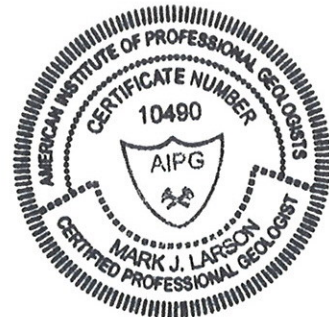
Prepared by:

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



Mark J. Larson, P.G.

Certified Professional Geologist #10490



This Page Intentionally Left Blank

Table of Contents

1.0	INTRODUCTION	1
1.1	<i>Setting</i>	1
1.2	<i>Recommended Remediation Action Levels</i>	1
1.3	<i>Initial Soil Samples</i>	2
2.0	REMEDICATION PLAN	2

Tables

Table 1	Investigation Soil Sample Analytical Data Summary
---------	---

Figures

Figure 1	Topographic Map
Figure 2	Aerial Map
Figure 3	Site Map Showing Initial Soil Sample Locations
Figure 4	Site Map Showing Proposed Excavations and Depths

Appendices

Appendix A	Laboratory Reports
Appendix B	Initial C-141

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 #36 (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-3871. The Site is located in Unit K (NE/4, SW/4), Section 12, Township 23 South, Range 29 East in Eddy County, New Mexico. The geodetic position is North 32.316944° and West -103.941667°. 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);
- Surface drainage is to the west towards Salt Lake located immediately north and west of the Site;
- The nearest surface water feature is a playa lake (Salt Lake) that is located adjacent to the west side 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 four (4) locations (DP-06-01 through DP-06-04) 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-06-01, DP-06-03 and DP-06-04.

2.0 REMEDIATION PLAN

XTO proposes to excavate soil from the area approximately 20 x 20 feet based on field observations, around DP-06-01 to approximately 1 foot bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavation will be filled to surface with clean soil.

Soil will be excavated from the area approximately 25 x 45 feet based on field observations, around DP-06-03 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-06-04 to approximately 1 foot bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavation will be filled to surface with clean soil.

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-3871

Investigation Soil Sample Analytical Data Summary

XTO Energy, Inc., Nash Draw Tank Battery 36

Unit K (NW/4, SW/4), Section 12, Township 23 South, Range 29 East

Eddy County, New Mexico

N32.316944° W-103.941667°

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-06-01	0 - 1	6/22/2016	In-Situ	40.3	203	31.6	273.9
DP-06-02	0 - 1	6/22/2016	In-Situ	40.2	<30.1	<30.1	40.2
	1 - 2	6/22/2016	In-Situ	--	--	--	--
DP-06-03	0 - 1	6/22/2016	In-Situ	693	2,360	367	3,420
	1 - 2	6/22/2016	In-Situ	41.8	71.7	113.5	227
	2 - 3	6/22/2016	In-Situ	306	883	125	1,310
	3 - 4	6/22/2016	In-Situ	--	--	--	--
DP-06-04	0 - 1	6/22/2016	In-Situ	171	4,300	893	5,364
	1 - 2	6/22/2016	In-Situ	<28.7	<28.7	<28.7	<28.7
	2 - 3	6/22/2016	In-Situ	<30.1	<30.1	<30.1	<30.1
	3 - 4	6/22/2016	In-Situ	--	--	--	--

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)

P: analysis pending

FIGURES

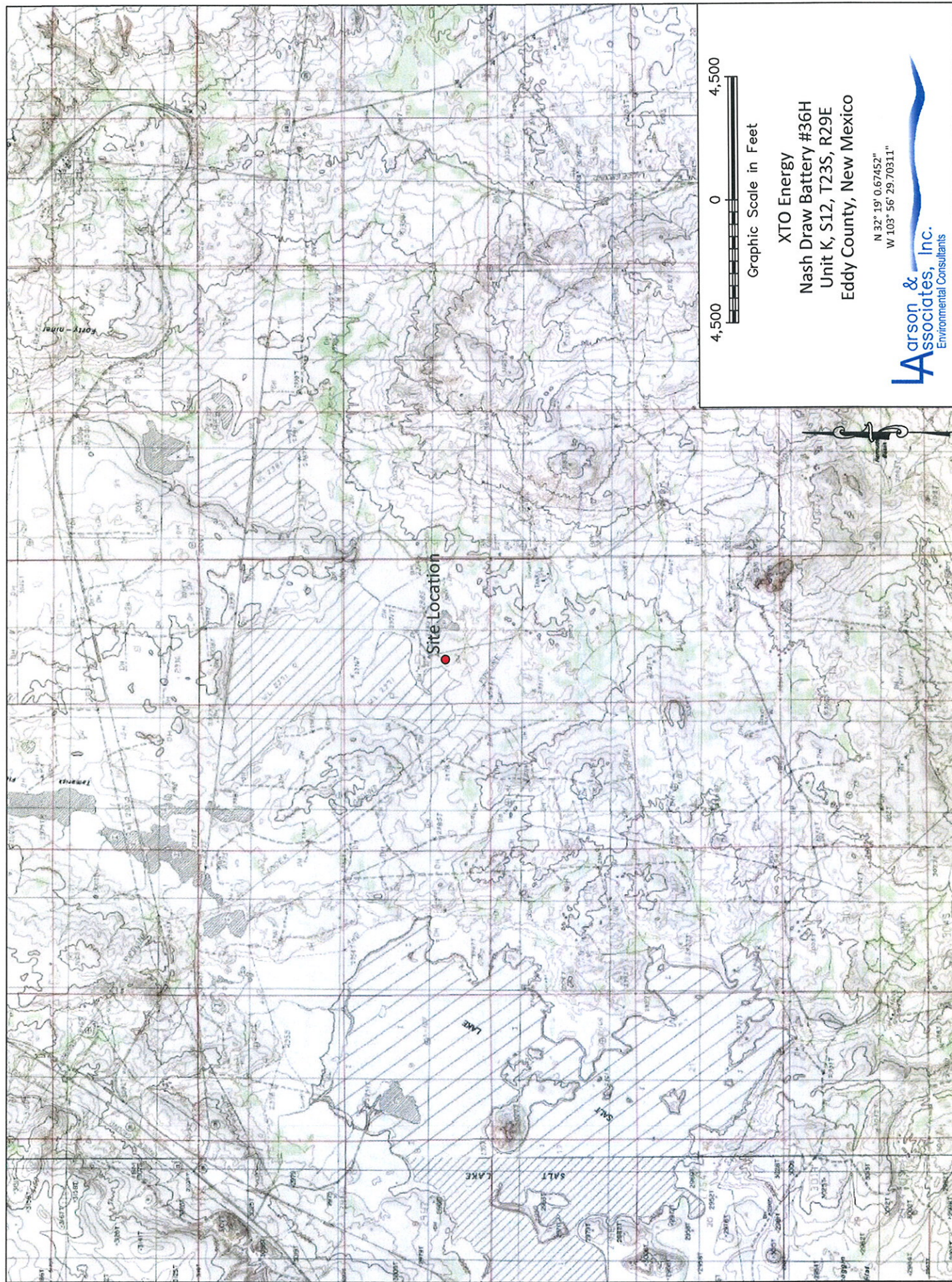


Figure 1 - Topographic Map



Figure 2 - Aerial Map

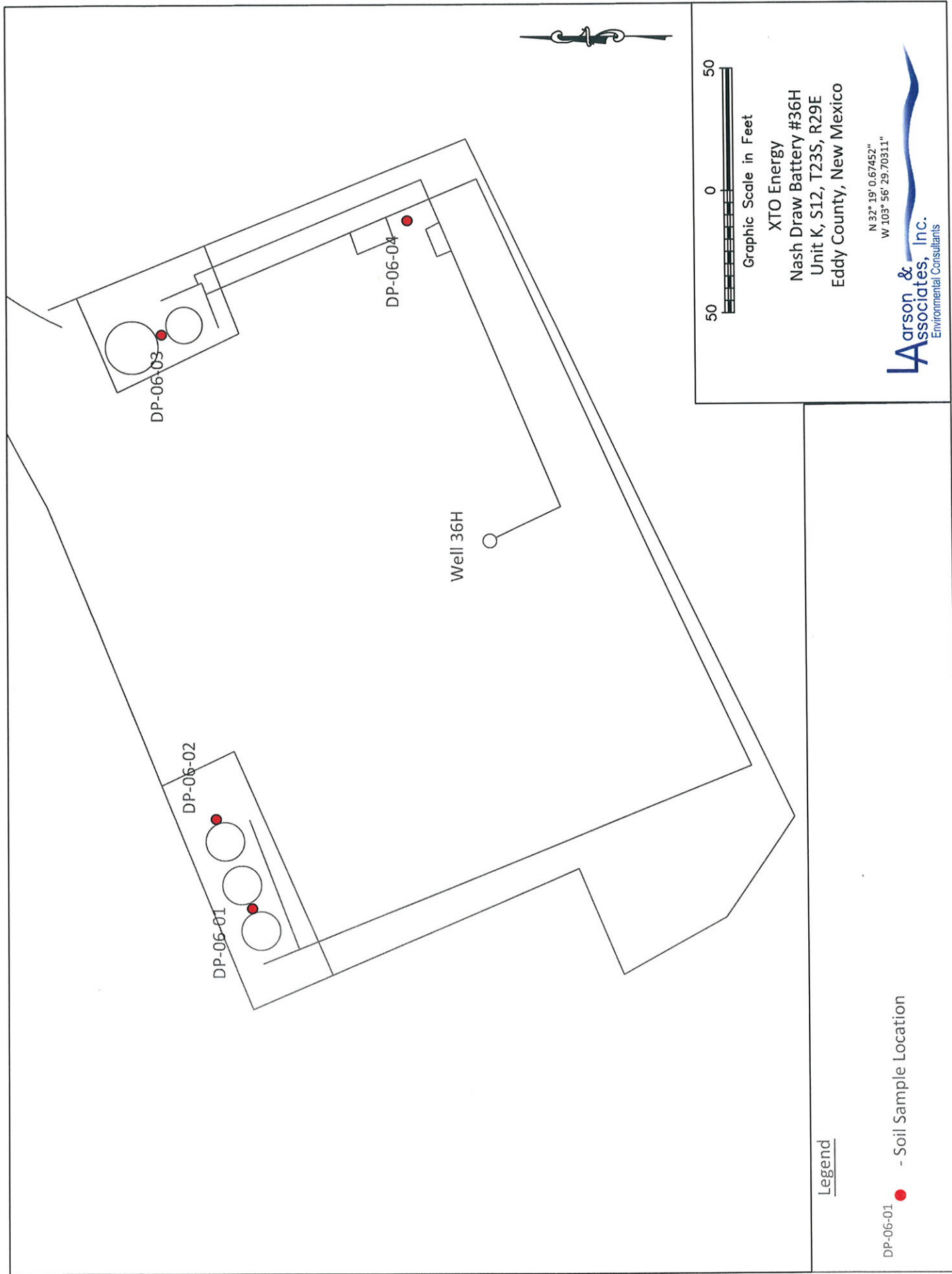


Figure 3 - Site Map Showing Soil Sample Locations

11" x 8.5"

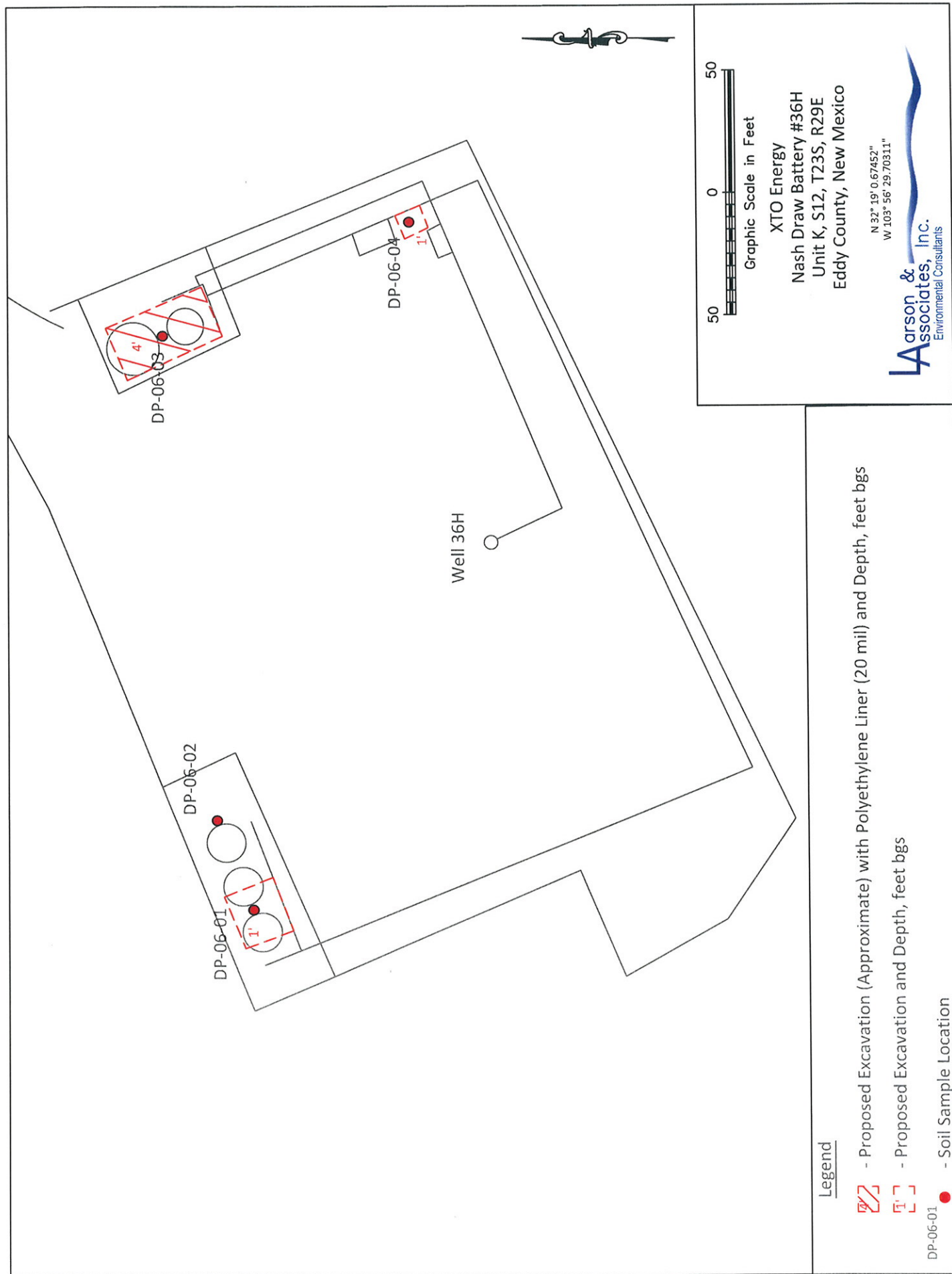


Figure 4 - Site Map Showing Soil Sample Locations, Proposed Excavation Area and Depth

APPENDIX A

Laboratory Reports

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



Analytical Report

Prepared for:

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

Project: Nash Draw #36
Project Number: 16-0108-06
Location: New Mexico
Lab Order Number: 6F26008



NELAP/TCEQ # T104704156-13-3

Report Date: 07/20/16

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-06-01 (0-1)	6F26008-01	Soil	06/22/16 11:45	06-24-2016 16:30
DP-06-02 (0-1)	6F26008-02	Soil	06/22/16 11:40	06-24-2016 16:30
DP-06-03 (0-1)	6F26008-04	Soil	06/22/16 11:20	06-24-2016 16:30
DP-06-03 (1-2)	6F26008-05	Soil	06/22/16 11:20	06-24-2016 16:30
DP-06-03 (2-3)	6F26008-06	Soil	06/22/16 11:20	06-24-2016 16:30
DP-06-03 (3-4)	6F26008-07	Soil	06/22/16 11:20	06-24-2016 16:30
DP-06-04 (0-1)	6F26008-08	Soil	06/22/16 11:30	06-24-2016 16:30
DP-06-04 (1-2)	6F26008-09	Soil	06/22/16 11:30	06-24-2016 16:30
DP-06-04 (2-3)	6F26008-10	Soil	06/22/16 11:30	06-24-2016 16:30
DP-06-BG (0-1)	6F26008-12	Soil	06/22/16 11:50	06-24-2016 16:30

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-01 (0-1)
6F26008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	32.4	1.12	mg/kg dry	1	P6F2913	06/28/16	06/28/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	40.3	28.1	mg/kg dry	1	P6F2907	06/26/16	06/27/16	TPH 8015M	
>C12-C28	203	28.1	mg/kg dry	1	P6F2907	06/26/16	06/27/16	TPH 8015M	
>C28-C35	31.6	28.1	mg/kg dry	1	P6F2907	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.8 %	70-130		P6F2907	06/26/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		95.6 %	70-130		P6F2907	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	275	28.1	mg/kg dry	1	[CALC]	06/26/16	06/27/16	calc	

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-02 (0-1)

6F26008-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	76.5	1.20	mg/kg dry	1	P6F2913	06/28/16	06/29/16	EPA 300.0	
% Moisture	17.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	40.2	30.1	mg/kg dry	1	P6F2907	06/26/16	06/27/16	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P6F2907	06/26/16	06/27/16	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P6F2907	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		91.5 %	70-130		P6F2907	06/26/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P6F2907	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	40.2	30.1	mg/kg dry	1	[CALC]	06/26/16	06/27/16	calc	

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-03 (0-1)

6F26008-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	145	1.12	mg/kg dry	1	P6F2913	06/28/16	06/29/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2901	06/29/16	06/29/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	693	140	mg/kg dry	5	P6F2907	06/26/16	06/27/16	TPH 8015M	
>C12-C28	2360	140	mg/kg dry	5	P6F2907	06/26/16	06/27/16	TPH 8015M	
>C28-C35	367	140	mg/kg dry	5	P6F2907	06/26/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P6F2907	06/26/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P6F2907	06/26/16	06/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3420	140	mg/kg dry	5	[CALC]	06/26/16	06/27/16	calc	

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-03 (1-2)
6F26008-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	12.0	0.1	%	1	P6G0501	07/05/16	07/05/16	% calculation
------------	------	-----	---	---	---------	----------	----------	---------------

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	41.8	28.4	mg/kg dry	1	P6G0705	07/01/16	07/02/16	TPH 8015M	
>C12-C28	71.7	28.4	mg/kg dry	1	P6G0705	07/01/16	07/02/16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P6G0705	07/01/16	07/02/16	TPH 8015M	
Surrogate: 1-Chlorooctane		130 %	70-130		P6G0705	07/01/16	07/02/16	TPH 8015M	
Surrogate: o-Terphenyl		146 %	70-130		P6G0705	07/01/16	07/02/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	114	28.4	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 #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-03 (2-3)
6F26008-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

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
------------	------	-----	---	---	---------	----------	----------	---------------

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	306	28.7	mg/kg dry	1	P6G0705	07/01/16	07/02/16	TPH 8015M
>C12-C28	883	28.7	mg/kg dry	1	P6G0705	07/01/16	07/02/16	TPH 8015M
>C28-C35	125	28.7	mg/kg dry	1	P6G0705	07/01/16	07/02/16	TPH 8015M
Surrogate: 1-Chlorooctane		97.4 %	70-130		P6G0705	07/01/16	07/02/16	TPH 8015M
Surrogate: o-Terphenyl		98.6 %	70-130		P6G0705	07/01/16	07/02/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	1310	28.7	mg/kg dry	1	[CALC]	07/01/16	07/02/16	calc

Larson & Associates, Inc.	Project: Nash Draw #36	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 16-0108-06	
Midland TX, 79710	Project Manager: Mark Larson	

DP-06-03 (3-4)

6F26008-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	175	1.14	mg/kg dry	1	P6G1406	07/15/16	07/15/16	EPA 300.0	
% Moisture	12.0	0.1	%	1	P6G1401	07/14/16	07/14/16	% calculation	

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-04 (0-1)

6F26008-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1600	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	171	142	mg/kg dry	5	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C12-C28	4300	142	mg/kg dry	5	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C28-C35	893	142	mg/kg dry	5	P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		144 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	5360	142	mg/kg dry	5	[CALC]	06/27/16	06/27/16	calc	

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-04 (1-2)

6F26008-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	13.0	0.1	%	1	P6G0808	07/07/16	07/07/16	% calculation
------------	------	-----	---	---	---------	----------	----------	---------------

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	07/01/16	07/05/16	calc	

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-04 (2-3)

6F26008-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

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
------------	------	-----	---	---	---------	----------	----------	---------------

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		117 %	70-130		P6G0704	07/01/16	07/05/16	TPH 8015M	
Surrogate: o-Terphenyl		138 %	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	

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-06-BG (0-1)

6F26008-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1160	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	ND	26.9	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C12-C28	34.7	26.9	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-130		P6F2811	06/27/16	06/27/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	34.7	26.9	mg/kg dry	1	[CALC]	06/27/16	06/27/16	calc	

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

Project: Nash Draw #36
Project Number: 16-0108-06
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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

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 P6F2913 - * DEFAULT PREP *****

Blank (P6F2913-BLK1)		Prepared & Analyzed: 06/28/16								
Chloride	ND	1.00	mg/kg wet							
LCS (P6F2913-BS1)		Prepared & Analyzed: 06/28/16								
Chloride	177	1.00	mg/kg wet	200		88.7	80-120			
LCS Dup (P6F2913-BSD1)		Prepared & Analyzed: 06/28/16								
Chloride	178	1.00	mg/kg wet	200		88.8	80-120	0.0789	20	
Duplicate (P6F2913-DUP1)		Source: 6F26005-05		Prepared & Analyzed: 06/28/16						
Chloride	569	29.8	mg/kg dry		554			2.65	20	
Duplicate (P6F2913-DUP2)		Source: 6F26006-21		Prepared & Analyzed: 06/28/16						
Chloride	1110	10.9	mg/kg dry		1110			0.548	20	

Permian Basin Environmental Lab, L.P.

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

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

Page 13 of 22

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

Project: Nash Draw #36
Project Number: 16-0108-06
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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P6F2913 - * DEFAULT PREP *****

Matrix Spike (P6F2913-MS1)

Source: 6F26005-05

Prepared & Analyzed: 06/28/16

Chloride	11000	29.8	mg/kg dry	9520	554	110	80-120			
----------	-------	------	-----------	------	-----	-----	--------	--	--	--

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	
----------	-----	------	-----------	--	-----	--	--	------	----	--

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	%							
------------	----	-----	---	--	--	--	--	--	--	--

Larson & Associates, Inc.	Project: Nash Draw #36	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 16-0108-06	
Midland TX, 79710	Project Manager: Mark Larson	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0501 - *** DEFAULT PREP ***										
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	
Batch P6G1401 - *** DEFAULT PREP ***										
Blank (P6G1401-BLK1)	Prepared & Analyzed: 07/14/16									
% Moisture	ND	0.1	%							
Duplicate (P6G1401-DUP1)	Source: 6G13010-02		Prepared & Analyzed: 07/14/16							
% Moisture	8.0	0.1	%		9.0			11.8	20	

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

Project: Nash Draw #36
Project Number: 16-0108-06
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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P6G1401 - *** DEFAULT PREP ***

Duplicate (P6G1401-DUP2) Source: 6G13015-01 Prepared & Analyzed: 07/14/16

% Moisture	2.0	0.1	%		2.0			0.00	20	
------------	-----	-----	---	--	-----	--	--	------	----	--

Batch P6G1406 - *** DEFAULT PREP ***

Blank (P6G1406-BLK1) Prepared & Analyzed: 07/15/16

Chloride	ND	1.00	mg/kg wet							
----------	----	------	-----------	--	--	--	--	--	--	--

LCS (P6G1406-BS1) Prepared & Analyzed: 07/15/16

Chloride	406	1.00	mg/kg wet	400		101	80-120			
----------	-----	------	-----------	-----	--	-----	--------	--	--	--

LCS Dup (P6G1406-BSD1) Prepared & Analyzed: 07/15/16

Chloride	395	1.00	mg/kg wet	400		98.7	80-120	2.73	20	
----------	-----	------	-----------	-----	--	------	--------	------	----	--

Duplicate (P6G1406-DUP2) Source: 6G07018-01 Prepared & Analyzed: 07/15/16

Chloride	3880	27.2	mg/kg dry		3880			0.0421	20	
----------	------	------	-----------	--	------	--	--	--------	----	--

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

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

Batch 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 P6F2907 - TX 1005

Blank (P6F2907-BLK1)

Prepared & Analyzed: 06/26/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

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

Batch P6F2907 - TX 1005

LCS (P6F2907-BS1)

Prepared & Analyzed: 06/26/16

C6-C12	882	25.0	mg/kg wet	1000		88.2	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		99.1	70-130			

LCS Dup (P6F2907-BSD1)

Prepared & Analyzed: 06/26/16

C6-C12	941	25.0	mg/kg wet	1000		94.1	75-125	6.44	20	
>C12-C28	1130	25.0	"	1000		113	75-125	6.88	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	53.0		"	50.0		106	70-130			

Matrix Spike (P6F2907-MS1)

Source: 6F26005-21

Prepared: 06/26/16 Analyzed: 06/27/16

C6-C12	891	26.0	mg/kg dry	1040	30.2	82.6	75-125			
>C12-C28	1090	26.0	"	1040	63.7	98.5	75-125			
Surrogate: 1-Chlorooctane	125		"	104		120	70-130			
Surrogate: o-Terphenyl	55.0		"	52.1		106	70-130			

Matrix Spike Dup (P6F2907-MSD1)

Source: 6F26005-21

Prepared: 06/26/16 Analyzed: 06/27/16

C6-C12	894	26.0	mg/kg dry	1040	30.2	82.9	75-125	0.399	20	
>C12-C28	1110	26.0	"	1040	63.7	100	75-125	1.61	20	
Surrogate: 1-Chlorooctane	123		"	104		118	70-130			
Surrogate: o-Terphenyl	47.9		"	52.1		92.0	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			

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

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

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

Batch 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-BS1)

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 P6G0705 - TX 1005

Blank (P6G0705-BLK1)

Prepared & Analyzed: 07/01/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	52.7		"	50.0		105	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Page 19 of 22

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

Project: Nash Draw #36
Project Number: 16-0108-06
Project Manager: Mark Larson

Fax: (432) 687-0456

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

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

Batch P6G0705 - TX 1005

LCS (P6G0705-BS1)

Prepared & Analyzed: 07/01/16

C6-C12	834	25.0	mg/kg wet	1000		83.4	75-125			
>C12-C28	965	25.0	"	1000		96.5	75-125			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.2	70-130			

LCS Dup (P6G0705-BSD1)

Prepared & Analyzed: 07/01/16

C6-C12	890	25.0	mg/kg wet	1000		89.0	75-125	6.60	20	
>C12-C28	1010	25.0	"	1000		101	75-125	4.68	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Duplicate (P6G0705-DUP1)

Source: 6F26005-03

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

C6-C12	32.4	30.5	mg/kg dry		47.3			37.2	20	
>C12-C28	386	30.5	"		271			35.1	20	
Surrogate: 1-Chlorooctane	167		"	183		91.5	70-130			
Surrogate: o-Terphenyl	92.8		"	91.5		102	70-130			

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Nash Draw #36
Project Number: 16-0108-06
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:

7/20/2016

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.

Varson & Associates, Inc.

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

Data Entered in:

TRRP report?		S-SOIL		P=PAINT		PRESERVATION		ANALYSES		FIELD NOTES											
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		W=SLUDGE A=SLURRY OT=OTHER		SL=SLUDGE OT=OTHER		<input type="checkbox"/> HCl <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> <input type="checkbox"/> ICE <input type="checkbox"/> UNPRESERVED		BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TPH 418.1 <input type="checkbox"/> TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> GASOLINE MOD 8015 <input type="checkbox"/> DIESEL - MOD 8015 <input type="checkbox"/> VOC 8260 <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/> 8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/> TCIP - METALS <input type="checkbox"/> TCIP - PEST <input type="checkbox"/> TCIP - FERT <input type="checkbox"/> TCIP - SEMI-VOC <input type="checkbox"/> TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/> LEAD - TOTAL <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> TCIP <input type="checkbox"/> RCI <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> PH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> PENTAVALENT CHROMIUM <input type="checkbox"/> CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/>		FIELD Sample I.D.		Lab #		Date		Time		Matrix		# of Containers	
TIME ZONE:		6F26008																			
TIME ZONE/State:																					
NM																					
DR-06-01 (G-1)		-01		6/22/16		11:45		S		2											
DR-06-02 (G-1)		-02				11:46															
DR-06-03 (G-1)		-03																			
DR-06-04 (G-1)		-04				11:20															
DR-06-05 (G-1)		-05																			
DR-06-06 (G-1)		-06																			
DR-06-07 (G-1)		-07																			
DR-06-08 (G-1)		-08				11:30															
DR-06-09 (G-1)		-09																			
DR-06-10 (G-1)		-10																			
DR-06-11 (G-1)		-11																			
DR-06-12 (G-1)		-12				11:50															
DR-06-13 (G-1)		-13																			
TOTAL																					
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)									
RELINQUISHED BY: (Signature)																					

APPENDIX B

Initial C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1009 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

NM OIL CONSERVATION

ARTESIA DISTRICT

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

NAB1625327393		5380		OPERATOR		<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report	
Name of Company: XTO Energy, Inc.				Contact: Dudley McMinn			
Address: 500 W. Illinois Ave., Suite 100, Midland, TX 70701				Telephone No.: (432) 682-8873			
Facility Name: Nash Draw Unit Battery #36				Facility Type: Tank Battery (Equipment Removed)			
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-30176			

LOCATION OF RELEASE

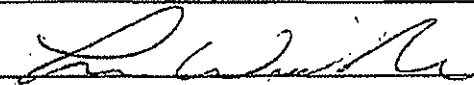

Unit Letter K	Section 12	Township 23S	Range 29E	Feet from the 1460	North/South Line South	Feet from the 1585	East/West Line West	County: Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	--------------

Latitude 32.316944 Longitude -103.941667

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 07-20-2016
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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 <input type="checkbox"/>	
Date: 09-07-2016 Phone: (432) 683-8873		SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 10/9/16	

* Attach Additional Sheets If Necessary

2RP-3871