

2RP-3870
REMEDIATION PLAN
Nash Draw Tank Battery #38
Eddy County, New Mexico

LAI Project No. 16-0108-08

November 2, 2016

Prepared for:

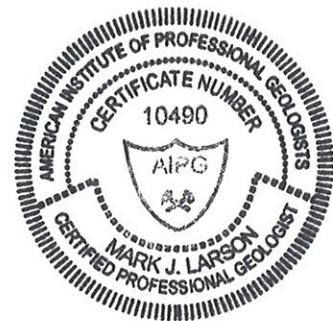
XTO Energy, Inc.
500 W. Illinois Ave., Suite 100
Midland, Texas 79707

Prepared by:

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



Mark J. Larson, P.G.



Certified Professional Geologist #10490

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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 #38 (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-3870. The Site is located in Unit N (SE/4, SW/4), Section 13, Township 23 South, Range 29 East in Eddy County, New Mexico. The geodetic position is North 32.298611° and West -103.938889°. 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 west - northwest;
- The nearest surface water feature is a playa lake (Salt Lake) located about 0.8 mile northwest 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 0.6 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 | >1,000 Horizontal Feet | 0 |

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

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

1.3 Investigation Soil Samples

Investigation soil samples were collected on June 22, 2016. LAI personnel used a Terraprobe® direct-push rig to collect soil samples at five (5) locations (DP-08-01 through DP-08-05) between ground surface and approximately four (4) feet bgs. A background sample (DP-08-BG) was collected at about 1 foot bgs about 50 feet west of the Site. Additional samples were collected with a backhoe (September 29, 2016) to define the vertical extent of impact. The samples were tested for headspace vapors with a calibrated photoionization detector (PID) and all were less than 100 parts per million (ppm). Permian Basin Environmental Lab (PBEL) located in Midland, Texas, analyzed the samples for total petroleum hydrocarbons (TPH) including gasoline (GRO), diesel (DRO) and oil (ORO) range organics by EPA SW-846 Method 8015 and chloride by method 300. The background sample was analyzed for chloride. Table 1 presents the investigation sample laboratory analytical data summary. Figure 3 presents a Site drawing and sample locations. Appendix A presents the laboratory reports.

Referring to Table 1, the RRAL for TPH was exceeded in samples from locations DP-08-02 and DP-08-03. Chloride was 542 mg/Kg in the deepest sample from boring DP-08-01 at 9 feet bgs. The background chloride concentration is 130 mg/Kg.

2.0 REMEDIATION PLAN

XTO proposes to excavate soil from the area approximately 20 x 25 feet based on field observations, around DP-08-01 to approximately 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 20 x 20 feet based on field observations, around DP-08-02 to approximately 2 feet bgs. Additional soil will be removed as necessary based on visual observations for hydrocarbon staining and odor. The excavation will be filled to surface with clean soil.

Soil will be excavated from the area approximately 20 x 20 feet based on field observations, around DP-08-03 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-3870

Investigation Soil Sample Analytical Data Summary

XTO Energy, Inc., Nash Draw Tank Battery 38

Unit N (SE/4, SW/4), Section 13, Township 23 South, Range 29 East

Eddy County, New Mexico

N32.298611° W-103.938889°

| Location | Depth (Feet) | Collection Date | Status | C6 - C12 (mg/Kg) | >C12 - C28 (mg/Kg) | >C28 - C35 (mg/Kg) | TPH (mg/Kg) | Chloride (mg/Kg) |
|------------------|--------------|-----------------|---------|------------------|--------------------|--------------------|---------------|------------------|
| OCD RRAL: | | | | | | | | |
| DP-08 -BG | 0 - 1 | 6/22/2016 | In-Situ | 41.7 | <26.3 | <26.3 | 1,000 41.7 | 130 |
| DP-08-01 | 0 - 1 | 6/22/2016 | In-Situ | 40.7 | <27.2 | <27.2 | <27.2 | 3,130 |
| | 1 - 2 | 6/22/2016 | In-Situ | -- | -- | -- | -- | 2,920 |
| | 2 - 3 | 6/22/2016 | In-Situ | -- | -- | -- | -- | 5,220 |
| | 3 - 4 | 6/22/2016 | In-Situ | -- | -- | -- | -- | 3,790 |
| | 6 | 9/29/2016 | In-Situ | -- | -- | -- | -- | 1,850 |
| DP-08-02 | 0 - 1 | 6/22/2016 | In-Situ | 402 | 7,000 | 1,300 | 8,702 | 120 |
| | 1 - 2 | 6/22/2016 | In-Situ | 237 | 5,020 | 954 | 6,220 | -- |
| | 2 - 3 | 6/22/2016 | In-Situ | 36.6 | 156 | 36.0 | 228.6 | -- |
| DP-08-03 | 0 - 1 | 6/22/2016 | In-Situ | <278 | 3,970 | 932 | 4,902 | 161 |
| | 1 - 2 | 6/22/2016 | In-Situ | 37.7 | 43.5 | <27.2 | 81.2 | -- |
| DP-08-04 | 0 - 1 | 6/22/2016 | In-Situ | 41 | 32.2 | <26.6 | 73.2 | 11.4 |
| DP-08-05 | 0 - 1 | 6/22/2016 | In-Situ | 39.2 | <27.2 | <27.2 | 39.2 | 14.2 |
| | 1 - 2 | 6/22/2016 | In-Situ | -- | -- | -- | -- | -- |
| | 2 - 3 | 6/22/2016 | In-Situ | -- | -- | -- | -- | -- |
| | 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) and 300.0 (chloride)
 Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

RRAL: Remediation action level calculated from OCD guidance document (August 13, 1993)

FIGURES

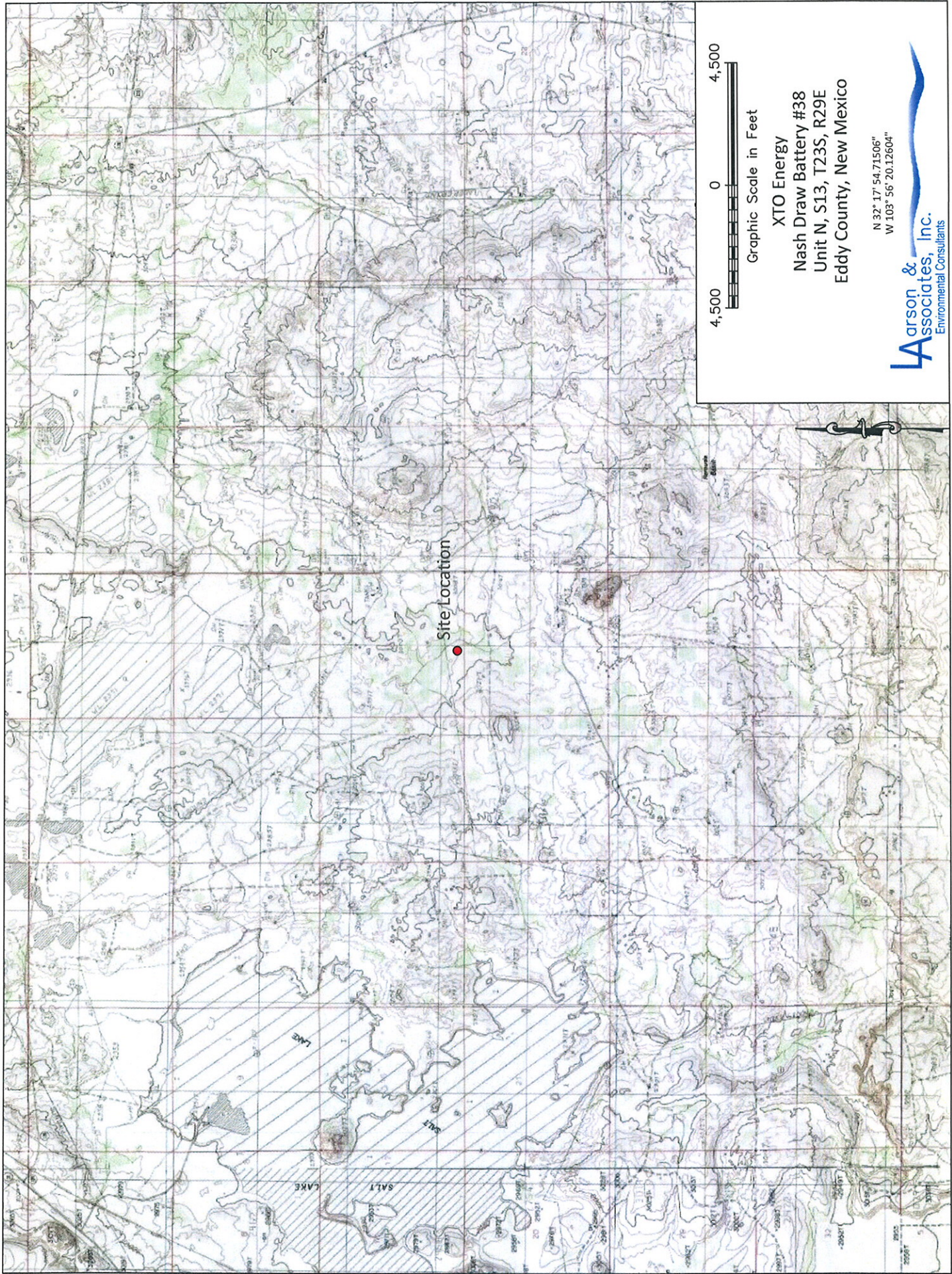
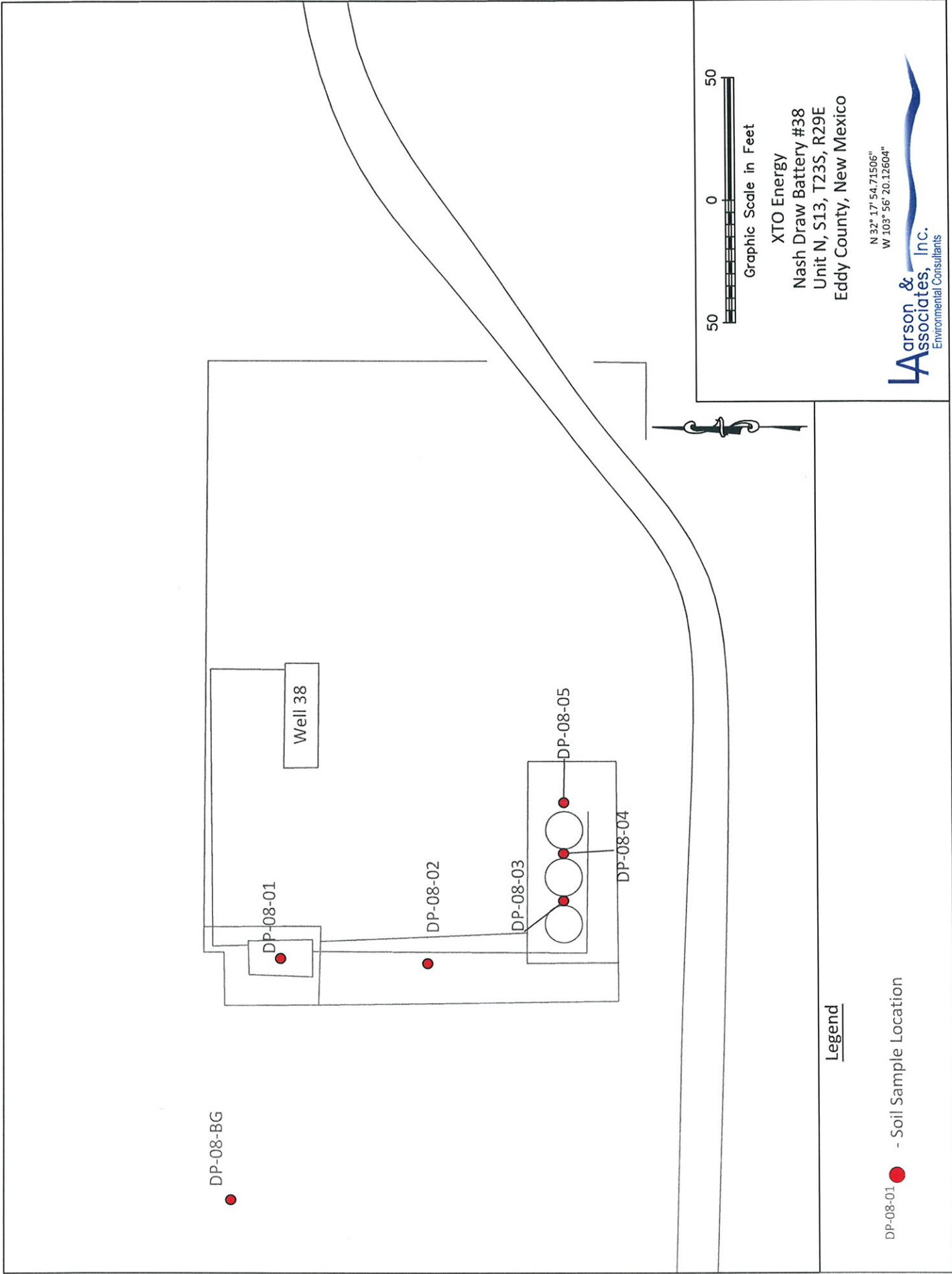


Figure 1 - Topographic Map



Figure 2 - Aerial Map

11" x 8.5"



XTO Energy
 Nash Draw Battery #38
 Unit N, S13, T23S, R29E
 Eddy County, New Mexico

N 32° 17' 54.71506"
 W 103° 56' 20.12604"

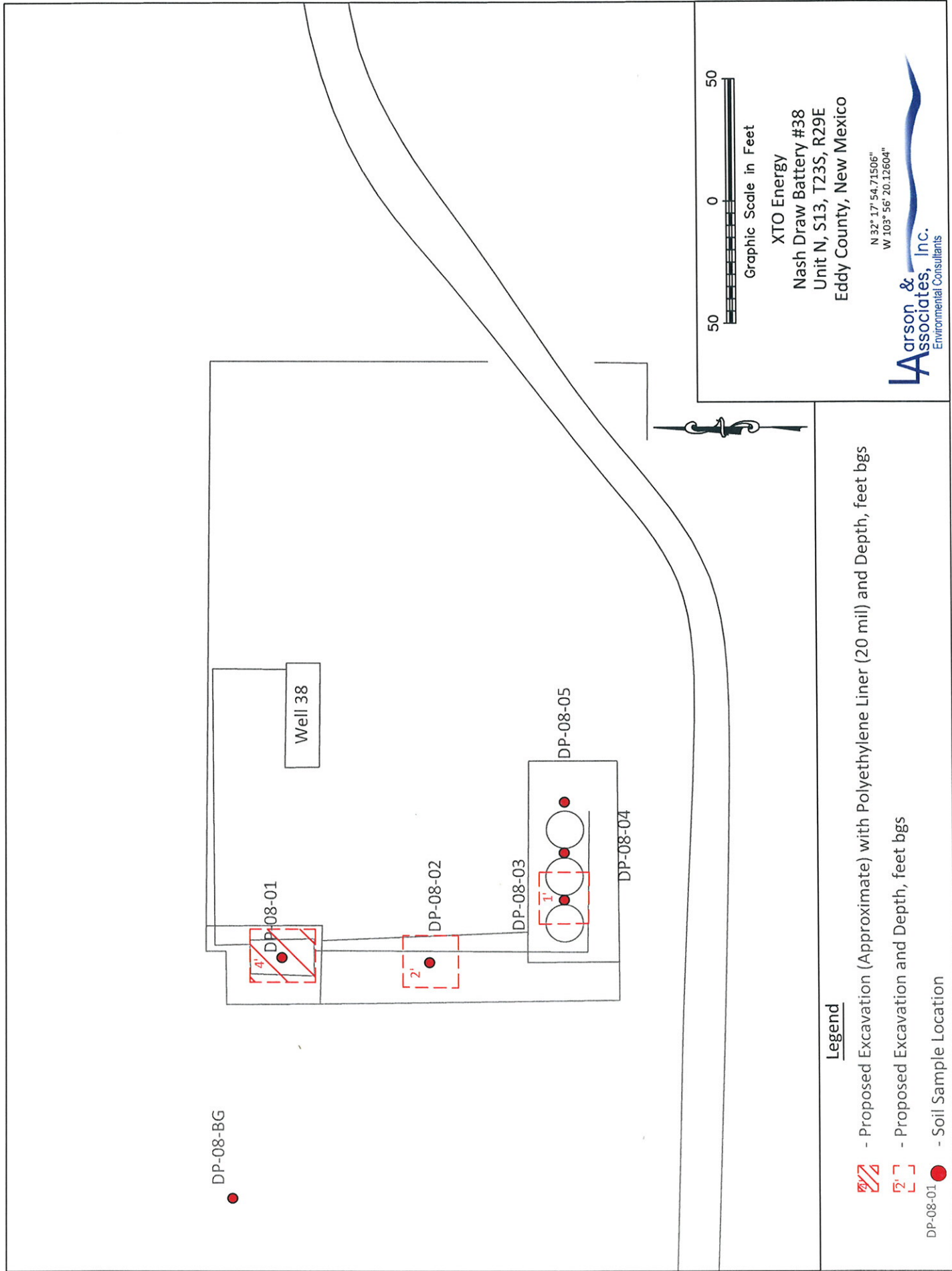


Legend

DP-08-01 ● - Soil Sample Location

11" x 8.5"

Figure 3 - Site Map Showing Soil Sample Locations



XTO Energy
 Nash Draw Battery #38
 Unit N, S13, T23S, R29E
 Eddy County, New Mexico

N 32° 17' 54.71506"
 W 103° 56' 20.12604"



11" x 8.5"

APPENDIX A
Laboratory Reports

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

PBELAB

Analytical Report

Prepared for:

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

Project: Nash Draw #38
Project Number: 16-0108-08
Location: New Mexico
Lab Order Number: 6F26007



NELAP/TCEQ # T104704156-13-3

Report Date: 07/09/16

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

Project: Nash Draw #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|----------------|------------------|
| DP-08-01 (0-1) | 6F26007-01 | Soil | 06/22/16 09:00 | 06-24-2016 16:30 |
| DP-8-02 (0-1) | 6F26007-05 | Soil | 06/22/16 09:15 | 06-24-2016 16:30 |
| DP-08-02 (1-2) | 6F26007-06 | Soil | 06/22/16 09:15 | 06-24-2016 16:30 |
| DP-08-02 (2-3) | 6F26007-07 | Soil | 06/22/16 09:15 | 06-24-2016 16:30 |
| DP-08-03 (0-1) | 6F26007-08 | Soil | 06/22/16 09:20 | 06-24-2016 16:30 |
| DP-08-03 (1-2) | 6F26007-09 | Soil | 06/22/16 09:20 | 06-24-2016 16:30 |
| DP-08-04 (0-1) | 6F26007-10 | Soil | 06/22/16 09:30 | 06-24-2016 16:30 |
| DP-08-05 (0-1) | 6F26007-11 | Soil | 06/22/16 09:35 | 06-24-2016 16:30 |
| DP-08-BG (0-1) | 6F26007-15 | Soil | 06/22/16 09:40 | 06-24-2016 16:30 |

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Project Number: 16-0108-08
Project Manager: Mark Larson

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DP-08-01 (0-1)
6F26007-01 (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 | 3130 | 27.2 | mg/kg dry | 25 | P6F2913 | 06/28/16 | 06/28/16 | EPA 300.0 | |
| % Moisture | 8.0 | 0.1 | % | 1 | P6F2901 | 06/29/16 | 06/29/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|-------------|-------------|------------------|----------|---------------|-----------------|-----------------|-------------|--|
| C6-C12 | 40.7 | 27.2 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C12-C28 | ND | 27.2 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C28-C35 | ND | 27.2 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | 98.2 % | 70-130 | | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 105 % | 70-130 | | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 40.7 | 27.2 | mg/kg dry | 1 | [CALC] | 06/26/16 | 06/27/16 | calc | |

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Nash Draw #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-8-02 (0-1)
6F26007-05 (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

| | | | | | | | | | |
|------------|-----|------|-----------|---|---------|----------|----------|---------------|--|
| Chloride | 120 | 1.10 | mg/kg dry | 1 | P6F2913 | 06/28/16 | 06/28/16 | 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 | 402 | 275 | mg/kg dry | 10 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C12-C28 | 7000 | 275 | mg/kg dry | 10 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C28-C35 | 1300 | 275 | mg/kg dry | 10 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 80.1 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 90.2 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 8710 | 275 | mg/kg dry | 10 | [CALC] | 06/26/16 | 06/27/16 | calc | |

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| | | |
|--|--|---------------------|
| Larson & Associates, Inc. P.O. Box 50685 Midland TX, 79710 | Project: Nash Draw #38 Project Number: 16-0108-08 Project Manager: Mark Larson | Fax: (432) 687-0456 |
|--|--|---------------------|

DP-08-02 (1-2)
6F26007-06 (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 | 11.0 | 0.1 | % | 1 | P6G0501 | 07/05/16 | 07/05/16 | % calculation | |
|------------|------|-----|---|---|---------|----------|----------|---------------|--|

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|-------------|------------|------------------|----------|---------------|-----------------|-----------------|-------------|------|
| C6-C12 | 237 | 140 | mg/kg dry | 5 | P6G0707 | 07/01/16 | 07/02/16 | TPH 8015M | |
| >C12-C28 | 5020 | 140 | mg/kg dry | 5 | P6G0707 | 07/01/16 | 07/02/16 | TPH 8015M | |
| >C28-C35 | 954 | 140 | mg/kg dry | 5 | P6G0707 | 07/01/16 | 07/02/16 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | 128 % | | 70-130 | P6G0707 | 07/01/16 | 07/02/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 142 % | | 70-130 | P6G0707 | 07/01/16 | 07/02/16 | TPH 8015M | S-GC |
| Total Petroleum Hydrocarbon C6-C35 | 6220 | 140 | mg/kg dry | 5 | [CALC] | 07/01/16 | 07/02/16 | calc | |

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Project Number: 16-0108-08
Project Manager: Mark Larson

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DP-08-02 (2-3)
6F26007-07 (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

| | | | | | | | | | |
|------------|------|-----|---|---|---------|----------|----------|---------------|--|
| % Moisture | 11.0 | 0.1 | % | 1 | P6G0501 | 07/05/16 | 07/05/16 | % calculation | |
|------------|------|-----|---|---|---------|----------|----------|---------------|--|

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|------------|--------|-----------|---|---------|----------|----------|-----------|--|
| C6-C12 | 36.6 | 28.1 | mg/kg dry | 1 | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| >C12-C28 | 156 | 28.1 | mg/kg dry | 1 | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| >C28-C35 | 36.0 | 28.1 | mg/kg dry | 1 | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | 94.0 % | 70-130 | | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 104 % | 70-130 | | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 228 | 28.1 | mg/kg dry | 1 | {CALC} | 07/01/16 | 07/02/16 | calc | |

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Project: Nash Draw #38
Project Number: 16-0108-08
Project Manager: Mark Larson

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DP-08-03 (0-1)

6F26007-08 (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 | 161 | 1.11 | mg/kg dry | 1 | P6F2913 | 06/28/16 | 06/28/16 | 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 | 278 | mg/kg dry | 10 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C12-C28 | 3970 | 278 | mg/kg dry | 10 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C28-C35 | 932 | 278 | mg/kg dry | 10 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 84.4 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 90.2 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 4900 | 278 | mg/kg dry | 10 | [CALC] | 06/26/16 | 06/27/16 | calc | |

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Nash Draw #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-08-03 (1-2)
6F26007-09 (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 | 8.0 | 0.1 | % | 1 | P6G0501 | 07/05/16 | 07/05/16 | % calculation | |
|------------|-----|-----|---|---|---------|----------|----------|---------------|--|

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|-------------|--------|-----------|---|---------|----------|----------|-----------|--|
| C6-C12 | 37.7 | 27.2 | mg/kg dry | 1 | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| >C12-C28 | 43.5 | 27.2 | mg/kg dry | 1 | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| >C28-C35 | ND | 27.2 | mg/kg dry | 1 | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | 91.2 % | 70-130 | | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 98.6 % | 70-130 | | P6G0705 | 07/01/16 | 07/02/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 81.2 | 27.2 | mg/kg dry | 1 | [CALC] | 07/01/16 | 07/02/16 | calc | |

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Nash Draw #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-08-04 (0-1)
6F26007-10 (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

| | | | | | | | | | |
|------------|------|------|-----------|---|---------|----------|----------|---------------|--|
| Chloride | 11.4 | 1.06 | mg/kg dry | 1 | P6F2913 | 06/28/16 | 06/28/16 | EPA 300.0 | |
| % Moisture | 6.0 | 0.1 | % | 1 | P6F2901 | 06/29/16 | 06/29/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|-------------|--------|-----------|--------|---------|----------|----------|-----------|--|
| C6-C12 | 41.0 | 26.6 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C12-C28 | 32.2 | 26.6 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C28-C35 | ND | 26.6 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | 92.2 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 96.9 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 73.3 | 26.6 | mg/kg dry | 1 | [CALC] | 06/26/16 | 06/27/16 | 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 #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-08-05 (0-1)
6F26007-11 (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 | 14.2 | 1.09 | mg/kg dry | 1 | P6F2913 | 06/28/16 | 06/28/16 | EPA 300.0 | |
| % Moisture | 8.0 | 0.1 | % | 1 | P6F2901 | 06/29/16 | 06/29/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|------|--------|-----------|--------|---------|----------|----------|-----------|--|
| C6-C12 | 39.2 | 27.2 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C12-C28 | ND | 27.2 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C28-C35 | ND | 27.2 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | 99.7 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 105 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 39.2 | 27.2 | mg/kg dry | 1 | [CALC] | 06/26/16 | 06/27/16 | 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 #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-08-BG (0-1)
6F26007-15 (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 | 130 | 1.05 | mg/kg dry | 1 | P6F2913 | 06/28/16 | 06/29/16 | EPA 300.0 | |
| % Moisture | 5.0 | 0.1 | % | 1 | P6F2901 | 06/29/16 | 06/29/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|------|--------|-----------|--------|---------|----------|----------|-----------|--|
| C6-C12 | 41.7 | 26.3 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C12-C28 | ND | 26.3 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| >C28-C35 | ND | 26.3 | mg/kg dry | 1 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | 88.3 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 94.4 % | | 70-130 | P6F2907 | 06/26/16 | 06/27/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 41.7 | 26.3 | mg/kg dry | 1 | [CALC] | 06/26/16 | 06/27/16 | 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 #38
Project Number: 16-0108-08
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.

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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 #38
Project Number: 16-0108-08
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 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 | |

Permian Basin Environmental Lab, L.P.

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

Project: Nash Draw #38
Project Number: 16-0108-08
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

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 | | | |

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 | | | |

Permian Basin Environmental Lab, L.P.

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

Project: Nash Draw #38
Project Number: 16-0108-08
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

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 | | | |

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 | | | |

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

Project: Nash Draw #38
Project Number: 16-0108-08
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 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

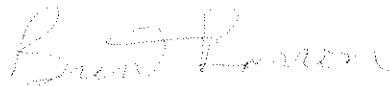
Project: Nash Draw #38
Project Number: 16-0108-08
Project Manager: Mark Larson

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.
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.

DATE: 6-21-16 LAB WORK ORDER #: LF26007 PAGE 1 OF 2
 PO #: _____ PROJECT LOCATION OR NAME: NASH DRACS # 38 COLLECTOR: TM
 LAI PROJECT #: 16-0108-08

CHAIN-OF-CUSTODY

Data Reported to:

TRRP report? Yes No
 TIME ZONE: _____
 Time zone/State: _____

S=SOIL P=PAINT
 W=WATER SL=SLUDGE
 A=AIR OT=OTHER

LF26007

PRESERVATION
 HCl _____
 HNO₃ _____
 H₂SO₄ NaOH
 ICE _____
 UNPRESERVED

- ANALYSES**
- BTEX MTBE
 - TRPH 418.1 TPH 1005 TPH 1006
 - GASOLINE MOD 8015 **8015**
 - DIESEL - MOD 8018 **8018**
 - VOC 8260
 - SVOC 8270
 - 8081 PESTICIDES PAH 8270 HOLDPAH
 - 8082 PESTICIDES 8151 HERBICIDES
 - TCLP - METALS TCLP - SEMI-VOC
 - TCLP - PEST HERB OTHER LIST
 - TOTAL METALS (RCRA) D.W. 200.8 TCLP
 - LEAD - TOTAL FLASHPOINT
 - RCI TOX % MOISTURE CYANIDE
 - TDS TSS
 - pH HEXAVALENT CHROMIUM
 - EXPLOSIVES PECHLORATE
 - CHLORIDES ANIONS ALKALINITY

| Field Sample I.D. | Lab # | Date | Time | Matrix | # of Containers | HCl | HNO ₃ | H ₂ SO ₄ <input type="checkbox"/> | NaOH <input type="checkbox"/> | ICE | UNPRESERVED | ANALYSES | FIELD NOTES |
|-------------------|-------|---------|------|--------|-----------------|-----|------------------|---|-------------------------------|-----|-------------|----------|-------------|
| DP-08-01 (0-1) | -01 | 6/22/16 | 9:00 | S | 1 | | | | | | | ✓ | |
| (1-2) | -02 | | | | | | | | | | | ✓ | |
| (2-3) | -03 | | | | | | | | | | | | |
| (3-4) | -04 | | | | | | | | | | | | |
| DP-08-02 (0-1) | -05 | | 9:15 | | | | | | | | | ✓ | |
| (1-2) | -06 | | | | | | | | | | | ✓ | |
| (2-3) | -07 | | | | | | | | | | | | |
| DP-08-03 (0-1) | -08 | | 9:30 | | | | | | | | | ✓ | |
| (1-2) | -09 | | | | | | | | | | | ✓ | |
| DP-08-04 (0-1) | -10 | | 9:30 | | | | | | | | | ✓ | |
| (1-2) | -11 | | | | | | | | | | | ✓ | |
| DP-08-05 (0-1) | -11 | | 9:35 | | | | | | | | | ✓ | |
| (1-2) | -12 | | | | | | | | | | | ✓ | |
| (2-3) | -13 | | | | | | | | | | | | |
| (3-4) | -14 | | | | | | | | | | | | |
| DP-08-B6 (0-1) | -15 | | 9:40 | | | | | | | | | ✓ | |
| TOTAL | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature) [Signature] DATE/TIME: 6/21/16 4:10 RECEIVED BY: (Signature) _____
 RELINQUISHED BY: (Signature) [Signature] DATE/TIME: _____ RECEIVED BY: (Signature) _____

TURN AROUND TIME: NORMAL 1 DAY 2 DAY OTHER 3 DAY
 LABORATORY USE ONLY: RECEIVING TEMP: 100 THERM #: _____
 CUSTODY SEALS - BROKEN INTACT NOT USED
 CARRIER BILL # _____
 HAND DELIVERED

RECEIVED BY: (Signature) [Signature] DATE/TIME: 6/21/16 10:30
 RECEIVED BY: (Signature) MASSA MARTIN



SUMMARY REPORT

1400 Rankin Hwy
Midland, Tx 79701
Phone: 432-686-7235

| | |
|--------------------------------------|---------------------------------|
| Larson & Associates, Inc. | Project: Nash Draw #38 |
| P.O. Box 50685 | Project Number: 16-0108-08 |
| Midland TX, 79710 | Project Manager: Mark Larson |
| SAMPLED: 06/22/16 | REPORTED: 06/29/16 19:51 |
| RECEIVED: 06-24-201 | |

| LAB # | | 6F26007-01 | 6F26007-05 | 6F26007-08 | 6F26007-10 | 6F26007-11 | 6F26007-15 |
|-----------|-----------------|----------------|---------------|----------------|----------------|----------------|----------------|
| MATRIX | Minimum | Soil | Soil | Soil | Soil | Soil | Soil |
| SAMPLE ID | Reporting Limit | DP-08-01 (0-1) | DP-8-02 (0-1) | DP-08-03 (0-1) | DP-08-04 (0-1) | DP-08-05 (0-1) | DP-08-BG (0-1) |

General Chemistry Parameters by EPA / Standard Methods (Soil)

| | | | | | | | |
|------------|----------------|------|-----|------|------|------|-----|
| Chloride | 1.00 mg/kg dry | 3130 | 120 | 161 | 11.4 | 14.2 | 130 |
| % Moisture | 0.1 % | 8.0 | 9.0 | 10.0 | 6.0 | 8.0 | 5.0 |

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

| | | | | | | | |
|------------------------------------|----------------|-------|-------|-------|-------|-------|-------|
| C6-C12 | 25.0 mg/kg dry | 40.7 | 402 | <278 | 41.0 | 39.2 | 41.7 |
| >C12-C28 | 25.0 mg/kg dry | <27.2 | 7000 | 3970 | 32.2 | <27.2 | <26.3 |
| >C28-C35 | 25.0 mg/kg dry | <27.2 | 1300 | 932 | <26.6 | <27.2 | <26.3 |
| 1-Chlorooctane | 130 [surr] | 98.2% | 80.1% | 84.4% | 92.2% | 99.7% | 88.3% |
| o-Terphenyl | 130 [surr] | 105% | 90.2% | 90.2% | 96.9% | 105% | 94.4% |
| Total Petroleum Hydrocarbon C6-C35 | 26.3 mg/kg dry | - | - | - | - | - | 41.7 |
| Total Petroleum Hydrocarbon C6-C35 | 26.6 mg/kg dry | - | - | - | 73.3 | - | - |
| Total Petroleum Hydrocarbon C6-C35 | 27.2 mg/kg dry | 40.7 | - | - | - | 39.2 | - |
| Total Petroleum Hydrocarbon C6-C35 | 275 mg/kg dry | - | 8710 | - | - | - | - |
| Total Petroleum Hydrocarbon C6-C35 | 278 mg/kg dry | - | - | 4900 | - | - | - |

Special Notes

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.

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



Analytical Report

Prepared for:

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

Project: XTO Nash Draw Site #38

Project Number: 16-0108-08

Location: New Mexico

Lab Order Number: 6I30006



NELAP/TCEQ # T104704156-16-6

Report Date: 11/07/16

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

Project: XTO Nash Draw Site #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|----------------|------------------|
| DP-08-01, 6' | 6130006-01 | Soil | 09/29/16 12:58 | 09-30-2016 08:30 |
| DP-08-01, 8' | 6130006-02 | Soil | 09/29/16 13:03 | 09-30-2016 08:30 |
| DP-08-01, 9' | 6130006-03 | Soil | 09/29/16 13:14 | 09-30-2016 08:30 |

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

Project: XTO Nash Draw Site #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-08-01, 6'
6130006-01 (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 | 1850 | 29.1 | mg/kg dry | 25 | P6J0306 | 10/03/16 | 10/04/16 | EPA 300.0 | |
| % Moisture | 14.0 | 0.1 | % | 1 | P6J0304 | 10/03/16 | 10/03/16 | % calculation | |

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

Project: XTO Nash Draw Site #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-08-01, 8'
6130006-02 (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 | 410 | 29.1 | mg/kg dry | 25 | P6J0306 | 10/03/16 | 10/04/16 | EPA 300.0 | |
| % Moisture | 17.0 | 0.1 | % | 1 | P6J0304 | 10/03/16 | 10/03/16 | % calculation | |

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

Project: XTO Nash Draw Site #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

DP-08-01, 9'
6I30006-03 (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 | 542 | 29.1 | mg/kg dry | 25 | P6J0306 | 10/03/16 | 10/04/16 | EPA 300.0 | |
| % Moisture | 17.0 | 0.1 | % | 1 | P6J0304 | 10/03/16 | 10/03/16 | % calculation | |

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

Project: XTO Nash Draw Site #38
Project Number: 16-0108-08
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 P6J0304 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P6J0304-BLK1) | | | | | | | | | | |
| | | | | Prepared & Analyzed: 10/03/16 | | | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P6J0304-DUP1) | | | | | | | | | | |
| | | | | Source: 6I30004-04 | | | Prepared & Analyzed: 10/03/16 | | | |
| % Moisture | 12.0 | 0.1 | % | | 12.0 | | | 0.00 | 20 | |
| Duplicate (P6J0304-DUP2) | | | | | | | | | | |
| | | | | Source: 6I30006-03 | | | Prepared & Analyzed: 10/03/16 | | | |
| % Moisture | 16.0 | 0.1 | % | | 17.0 | | | 6.06 | 20 | |
| Batch P6J0306 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P6J0306-BLK1) | | | | | | | | | | |
| | | | | Prepared & Analyzed: 10/03/16 | | | | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |
| LCS (P6J0306-BS1) | | | | | | | | | | |
| | | | | Prepared & Analyzed: 10/03/16 | | | | | | |
| Chloride | 421 | 1.00 | mg/kg wet | 400 | | 105 | 80-120 | | | |
| LCS Dup (P6J0306-BSD1) | | | | | | | | | | |
| | | | | Prepared & Analyzed: 10/03/16 | | | | | | |
| Chloride | 425 | 1.00 | mg/kg wet | 400 | | 106 | 80-120 | 0.887 | 20 | |
| Duplicate (P6J0306-DUP1) | | | | | | | | | | |
| | | | | Source: 6I29006-28 | | | Prepared & Analyzed: 10/03/16 | | | |
| Chloride | 2050 | 10.5 | mg/kg dry | | 1990 | | | 2.93 | 20 | |
| Duplicate (P6J0306-DUP2) | | | | | | | | | | |
| | | | | Source: 6I30005-05 | | | Prepared: 10/03/16 Analyzed: 10/04/16 | | | |
| Chloride | 2610 | 52.1 | mg/kg dry | | 2590 | | | 1.10 | 20 | |
| Matrix Spike (P6J0306-MS1) | | | | | | | | | | |
| | | | | Source: 6I29006-28 | | | Prepared & Analyzed: 10/03/16 | | | |
| Chloride | 2630 | 10.5 | mg/kg dry | 789 | 1990 | 80.5 | 80-120 | | | |

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

Project: XTO Nash Draw Site #38
Project Number: 16-0108-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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:

11/7/2016

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.

6130006

Larson & Associates, Inc.
 Environmental Consultants
 507 N. Marientfeld, Ste. 205
 Midland, TX 79701
 432-687-0901

205
 DATE: 9-30-2016
 LAB WORK ORDER #
 PROJECT LOCATION OR NAME: XTO Nash Now RTH 439
 LAI PROJECT #: 16-0103-08
 COLLECTOR: JMT
 PAGE 1 OF 1

| TRRP Report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | S=SOIL W=WATER A=AIR | P=PAINT SL=SLUDGE OT=OTHER | Field Sample ID | Lab # | Date | Time | Matrix | # of Containers | HCl | HNO ₃ | H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> | IC | UNPRESERVED | ANALYSES | TURN AROUND TIME | LABORATORY USE ONLY: |
|---|----------------------------|----------------------------------|-----------------|-------|-----------|-------|--------|-----------------|-----|------------------|---|-------------------------------------|-------------|--|---|--|
| | | | DP-01, 6' | | 9/30/2016 | 12:58 | S | 1 | | | | <input checked="" type="checkbox"/> | | BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TPH 418, 11 <input type="checkbox"/> TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> GASOLINE MOD 8015 <input type="checkbox"/> DIESEL - MOD 8016 <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"/> 8082 PCBs <input type="checkbox"/> TCLP - METALS (RCRA) <input type="checkbox"/> TCLP VOC <input type="checkbox"/> TCLP - PEST <input type="checkbox"/> HERB <input type="checkbox"/> Semi-VOC <input type="checkbox"/> TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/> LEAD - TOTAL <input type="checkbox"/> D.W. 200.9 <input type="checkbox"/> TCLP <input type="checkbox"/> RCL <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> PH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> EXPLOSIVES <input type="checkbox"/> PERCHLORATE <input type="checkbox"/> CHLORIDE ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> 300 FIELD NOTES | NORMAL <input checked="" type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAY <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | RECEIVING TEMP: 20 THERM #: CUSTODY SEALS - <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NOT USED <input checked="" type="checkbox"/> HAND DELIVERED |
| | | | DP-01, 8' | | | 13:03 | | 1 | | | | | | | | |
| | | | DP-01, 9' | | | 13:14 | | 1 | | | | | | | | |

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 9/30/2016 09:30 RECEIVED BY: (Signature) [Signature]
 RELINQUISHED BY: (Signature) [Signature] DATE/TIME 9/30/2016 09:30 RECEIVED BY: (Signature) [Signature]
 RELINQUISHED BY: (Signature) [Signature] DATE/TIME 9/30/2016 8:30 RECEIVED BY: (Signature) [Signature]

TURN AROUND TIME
 NORMAL
 1 DAY
 2 DAY
 OTHER

LABORATORY USE ONLY:
 RECEIVING TEMP: 20 THERM #:
 CUSTODY SEALS - BROKEN INTACT NOT USED
 HAND DELIVERED

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 Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87503

State of New Mexico
Energy Minerals and Natural Resources

SEP 07 2016

Form C-141
Revised August 8, 2011

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

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

RECEIVED

Release Notification and Corrective Action

NAB1625257659 OPERATOR Initial Report Final Report

| | |
|---|---|
| Name of Company: XTO Energy, Inc. <i>5380</i> | Contact: Dudley McMinn |
| Address: 500 W. Illinois Ave., Suite 100, Midland, TX 70701 | Telephone No.: (432) 682-8873 |
| Facility Name: Nash Draw Unit Battery #38 | Facility Type: Tank Battery (Equipment Removed) |
| Surface Owner: Federal | Mineral Owner: Federal |
| API No. 30-015-29737 | |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|--------------|
| Unit Letter N | Section 13 | Township 23S | Range 29E | Feet from the 330 | North/South Line South | Feet from the 2450 | East/West Line West | County: Eddy |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|--------------|

Latitude 32.298611 Longitude -103.938889

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Crude Oil/Produced Water | 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? <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: <i>[Signature]</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Luke Williams | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: EH&S Coordinator | Approval Date: <i>9/8/16</i> | Expiration Date: <i>N/A</i> |
| 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 | |

* Attach Additional Sheets if Necessary

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 10/19/16

2RP-3870