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Carlsbad, New Mexico 88220
Tel. 432-701-2159
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October 21, 2024

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Site Characterization and Remediation Work Plan
Devon Energy Production Company
Arcturus 18 Fed 1 & 2 Battery
Unit A, Section 18, Township 19S, Range 31E
Site Coordinates: 32.66623066, -103.9007637
Eddy County, New Mexico
Incident ID: nAPP2426141700

Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Remediation Work Plan for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, remedial action activities, and sample analysis results for the release number: nAPP2426141700 – Arcturus 18 Fed 1 & 2 Battery (Site). The Site is in Unit Letter A, Section 18, of Township 19 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.66623066° N latitude and -103.9007637° W longitude. The site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

Background

Based on the Release Notification C-141 Form, the release was discovered on September 16, 2024, where Devon discovered a leak on a water line from the heater treater unit. Upon discovery, the Site was shut-in and repairs ensued. The spill resulted in a release of approximately ten (10) barrels (bbls) of produced water of which five (5) were recovered for an approximate net loss of five (5) bbls of produced water. The release area is shown on Figure 3.

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Mr. Mike Bratcher
 October 21, 2024
 Page 2 of 3

Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one water well (CP-1907) within a ½-mile radius of the Site reportedly drilled to a depth of fifty-five (55) feet (ft) below ground surface (bgs) with no water encountered. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a Medium Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to the report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

| Site Characterization | Average Groundwater Depth (ft) |
|-----------------------|--------------------------------|
| Medium Karst | ≥55 |

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

| Regulatory Standard | Chloride | TPH (GRO+DRO+MRO) | GRO+DRO | BTEX | Benzene |
|--|--------------|----------------------|-------------|----------|----------|
| 19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release | 10,000 mg/kg | 2,500 mg/kg | 1,000 mg/kg | 50 mg/kg | 10 mg/kg |
| 19.15.23.13 Restoration, Reclamation, and Re-Vegetation | 600 mg/kg | 100 mg/kg | --- | 50 mg/kg | 10 mg/kg |

Notes:
 --- = not defined

Initial Soil Delineation Assessment Summary and Findings

On September 18, 2024, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Five (5) vertical sample points (V-1 through V-5) were installed within the release area, while ten (10) horizontal sample points (H-1 through H-10) were installed adjacent to the release area in order to characterize the impacts. Soil samples were collected at half foot (0.5) to one (1) foot (ft) intervals from depths ranging from zero (0) to six (6) ft bgs with a geotechnical hand auger. The hand auger was decontaminated with Alconox[®] and deionized water between soil borings to prevent cross-contamination.

Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico for analysis of TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (Method SM4500Cl-B). The analytical results indicated that Chloride concentrations

NTGE Project No.: 249148



Mr. Mike Bratcher
October 21, 2024
Page 3 of 3

exceeded the NMOCD regulatory limits in the areas of V-1 through V-5 at various depths ranging from zero (0) to five (5) ft bgs. Analytical results also identified that horizontal delineation sample H-3 and H-10 exhibited presence of spill impacts due to elevated concentration of TPH and chloride at depths ranging from zero (0) to half foot (0.5) ft bgs. All other samples were below NMOCD regulatory criteria for the site.

On September 27, 2024, NTGE returned to continue with the horizontal delineation assessment of the release. A total of two (2) horizontal samples (H-3A and H-10A) were installed adjacent to the release area, collected at a half foot intervals, and were delivered to Cardinal Laboratories in Hobbs, New Mexico for the analysis of BTEX, TPH, and chlorides. Analytical results indicated that all samples were below NMOCD regulatory criteria for the site. Analytical results are included in Table 1, while soil boring locations are shown on Figure 3.

Proposed Work Plan

After receiving and evaluating the soil boring data, NTGE proposes to excavate the area of V-2 to a depth of four (4) ft bgs, V-3 to a depth of six (6) ft bgs, V-4 to a depth of two (2) ft bgs, and V-5 to a depth of one (1) ft bgs to ensure that the impacted soil has been removed from the Site. Approximately 476 cubic yards of impacted material will be excavated and transported offsite for disposal at an NMOCD approved landfill. The proposed excavation map is shown on Figure 4.

Due to the presence of production equipment (i.e., separators and associated pipelines) in the vicinity of area V-1, excavation of soil is not feasible as the result of associated safety concerns in encroaching the infrastructure. NTGE proposes to address the remaining soil impacts at the time of facility decommissioning or in the event infrastructure modifications are made in the area that would alleviate safety concerns, whichever is sooner. The infrastructure in and around the excavation is shown on Figure 3 and Figure 4.

If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,
NTG Environmental



Ethan Sessums
Project Manager

Attachments:

- Tables
- Figures
- Site Characterization Documentation
- Photographic Log
- Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 249148



TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Arcturus 18 Fed 1
Devon Energy Production Company
Eddy County, New Mexico

| Sample ID | Sample Date | Depth (ft bgs) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | BTEX (mg/kg) | TPH | | | | | Chloride (mg/kg) | |
|---|-------------|----------------|-----------------|-----------------|----------------------|-----------------|--------------|----------------------|-----------------------|----------------------------|-----------------------|------------------------------------|------------------|--------|
| | | | | | | | | GRO (C6-C10) (mg/kg) | DRO (C10-C28) (mg/kg) | GRO + DRO (C6-C28) (mg/kg) | MRO (C28-C35) (mg/kg) | Total GRO/DRO/MRO (C6-C35) (mg/kg) | | |
| | | | | | | | | 10 mg/kg | --- | --- | --- | 50 mg/kg | | --- |
| Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC | | | | | | | | | | | | | | |
| Vertical Delineation Samples | | | | | | | | | | | | | | |
| V-1 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 8,800 |
| | 9/18/2024 | 1' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 6,930 |
| | 9/18/2024 | 2' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 5,000 |
| | 9/18/2024 | 3' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 2,560 |
| | 9/18/2024 | 4' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 256 |
| V-2 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 10,000 |
| | 9/18/2024 | 1' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 8,400 |
| | 9/18/2024 | 2' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 8,530 |
| | 9/18/2024 | 3' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 4,800 |
| | 9/18/2024 | 4' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 448 |
| V-3 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 5,360 |
| | 9/18/2024 | 1' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 8,240 |
| | 9/18/2024 | 2' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 10,000 |
| | 9/18/2024 | 3' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 10,400 |
| | 9/18/2024 | 4' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 8,400 |
| | 9/18/2024 | 5' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 4,160 |
| V-4 | 9/18/2024 | 6' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 448 |
| | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 12,700 |
| | 9/18/2024 | 1' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 5,860 |
| V-5 | 9/18/2024 | 2' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 192 |
| | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 8,530 |
| 9/18/2024 | 1' | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 176 |
| Horizontal Delineation Samples | | | | | | | | | | | | | | |
| H-1 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| H-2 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| H-3 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | 179 | 179 | 90.4 | 269.4 | <10.0 | 384 |
| H-3A | 9/27/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| H-4 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| H-5 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| H-6 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| H-7 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 160 |
| H-8 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 224 |
| H-9 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 480 |
| H-10 | 9/18/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 10,400 |
| H-10A | 9/27/2024 | 0-0.5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 |

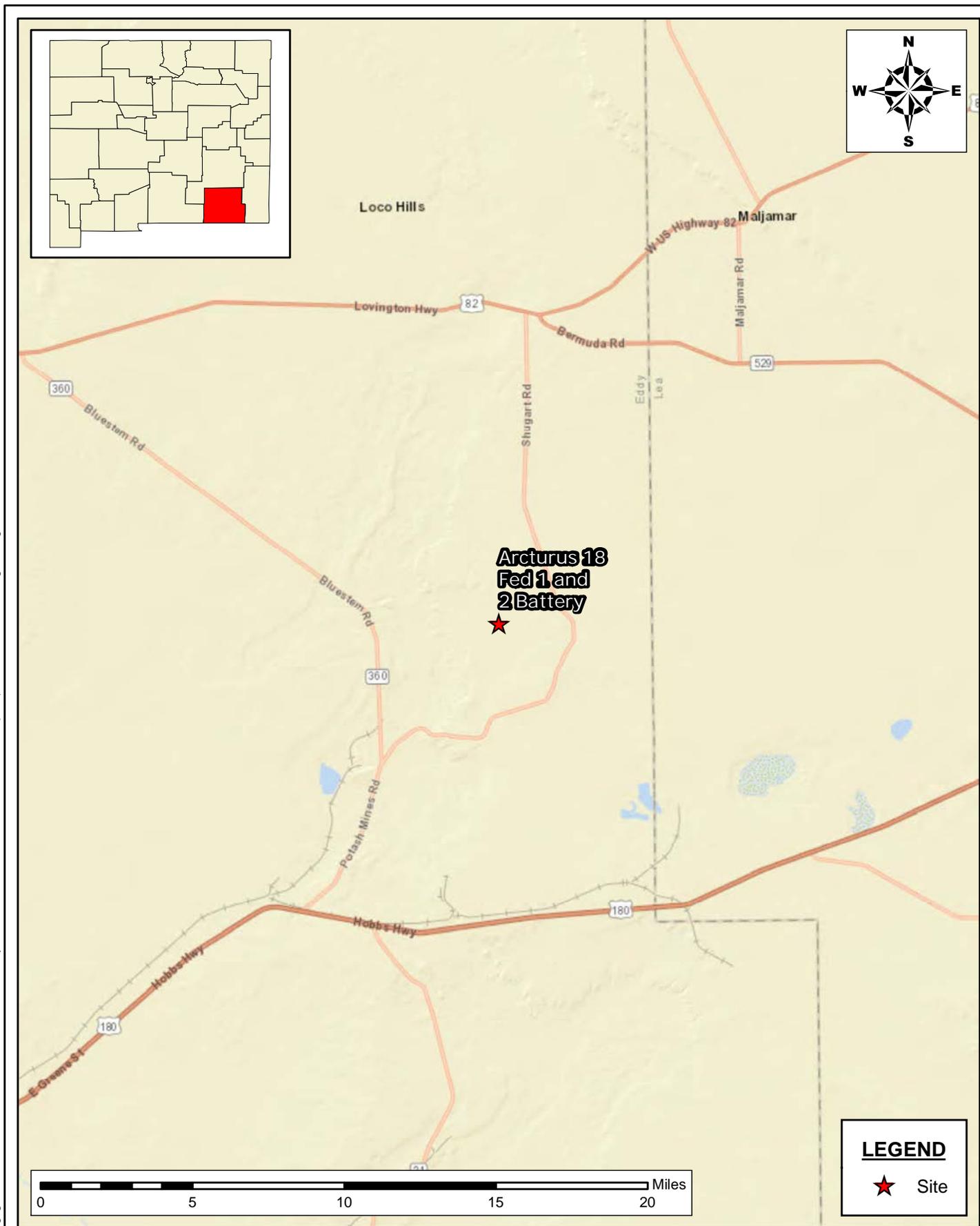
Notes:

- 1. Values reported in mg/kg
- 2. < = Value Less Than Reporting Limit (RL)
- 3. Bold indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW 8021B
- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
- 9. --- Not Analyzed

SP-1 Sample Point Excavated

FIGURES

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LEGEND

★ Site

SITE LOCATION MAP
SITE CHARACTERIZATION AND REMEDIATION WORK PLAN
 DEVON ENERGY PRODUCTION COMPANY
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO

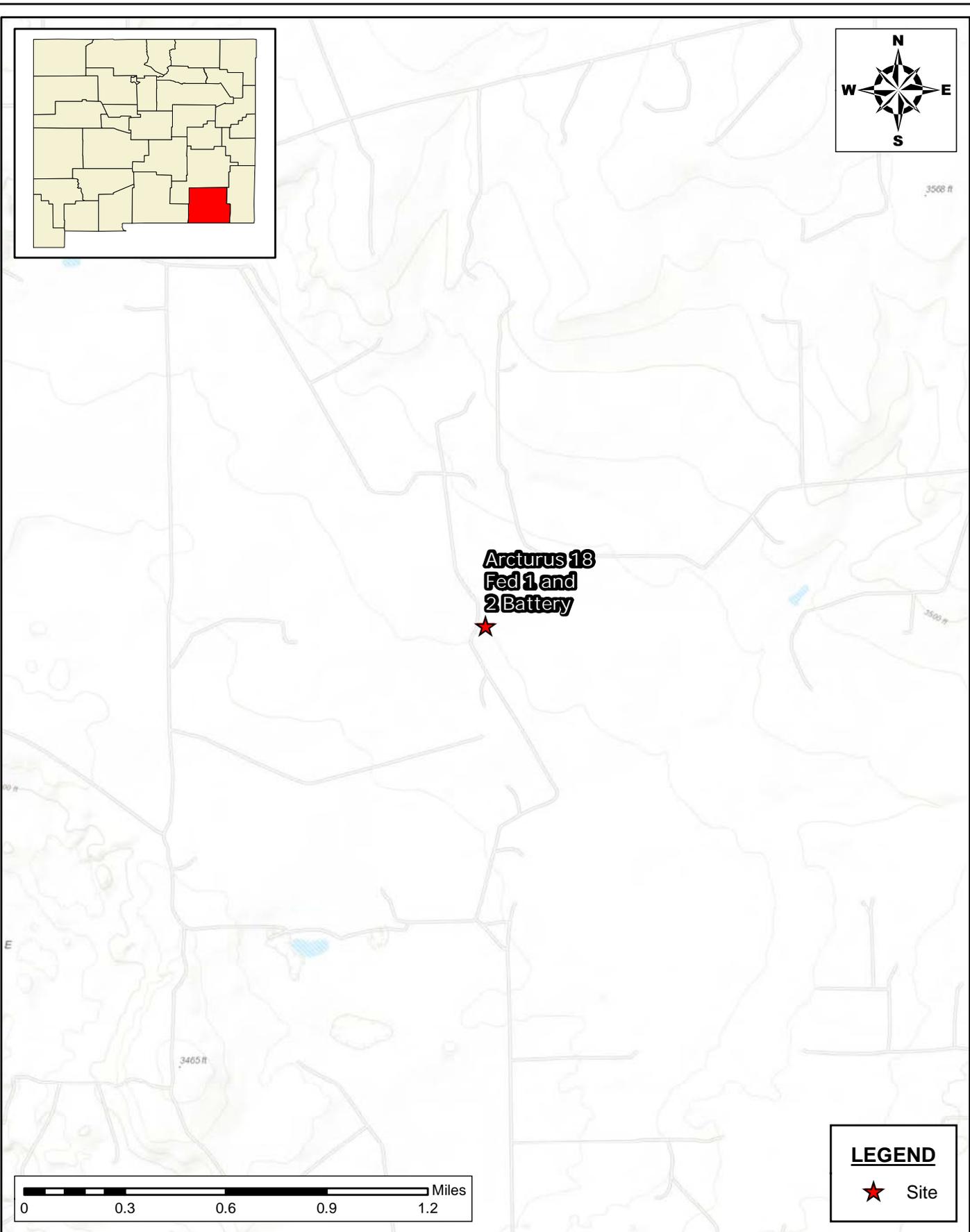
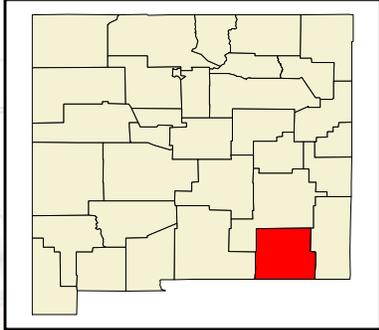
SCALE: As Shown Date: 10/14/2024 PROJECT #:249148


New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenvironmental.com

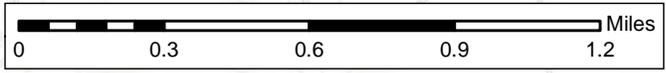
NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983

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FIGURE 1
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**Arcturus 18
Fed 1 and
2 Battery**



LEGEND

★ Site

TOPOGRAPHIC MAP
SITE CHARACTERIZATION AND REMEDIATION WORK PLAN
 DEVON ENERGY PRODUCTION COMPANY
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO


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 Houston, Texas 77060
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NOTES:
 1. Base Image: ESRI Maps & Data 2013
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FIGURE 2
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INITIAL ASSESSMENT MAP
SITE CHARACTERIZATION AND REMEDIATION WORK PLAN
 DEVON ENERGY PRODUCTION COMPANY
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO

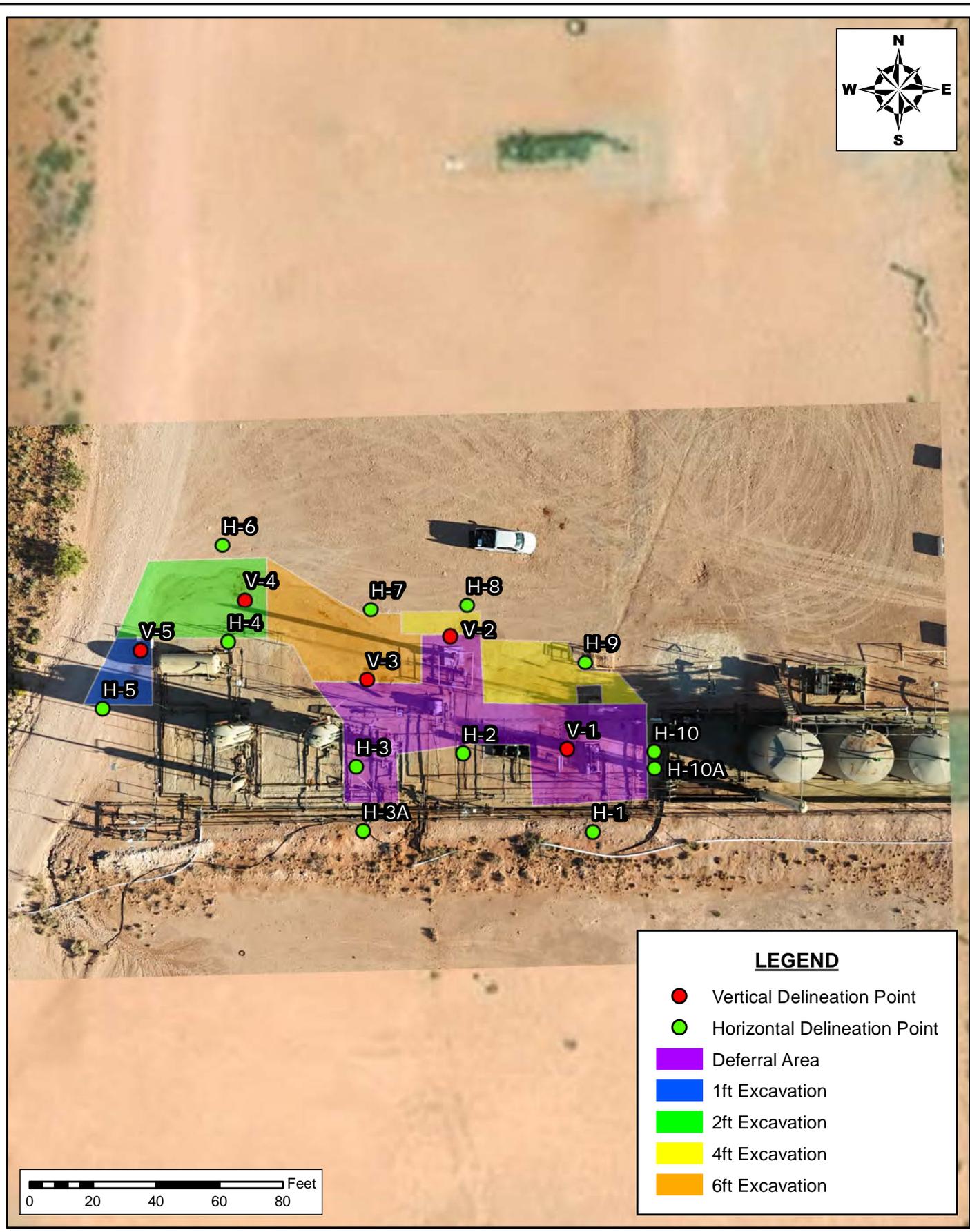
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FIGURE 3
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1 of 1

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LEGEND

- Vertical Delineation Point
- Horizontal Delineation Point
- Deferral Area
- 1ft Excavation
- 2ft Excavation
- 4ft Excavation
- 6ft Excavation

PROPOSED EXCAVATION MAP
SITE CHARACTERIZATION AND REMEDIATION WORK PLAN
 DEVON ENERGY PRODUCTION COMPANY
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO

NTG
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NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983

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FIGURE 4
 SHEET NUMBER:
1 of 1

Proposed Excavation Map

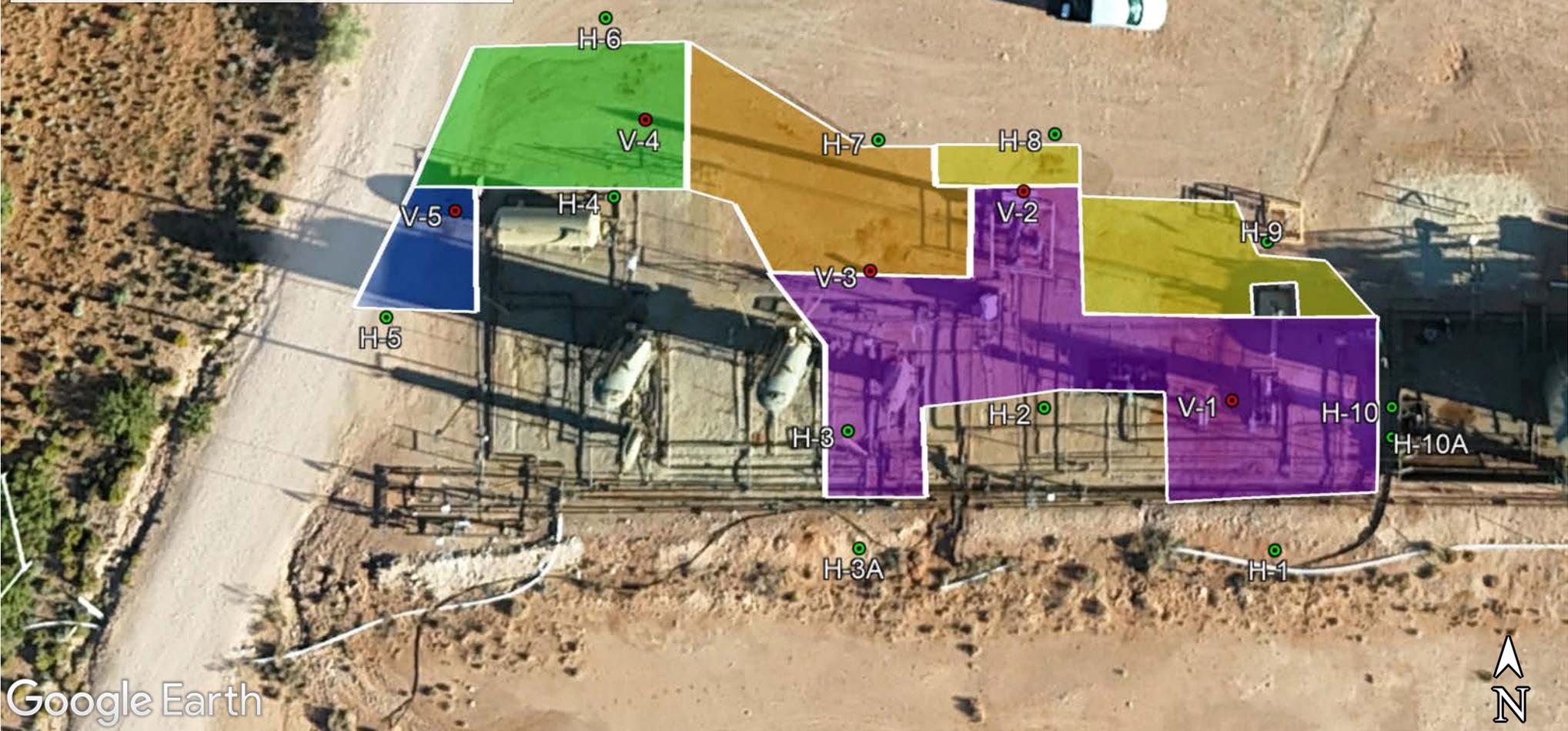
Devon Energy Production Company, LP
Arcturus 18 Fed 1 and 2 Battery
Eddy County, New Mexico
32.66623066,-103.9007637

Area of Yellow: 890 sqft x 4ft ~ 132 CY
Area of Orange: 1,138 sqft x 6ft ~ 253 CY
Area of Green: 1,049 sqft x 2ft ~ 78 CY
Area of Blue: 353 sqft x 1ft ~ 13 CY
Total Volume Excavated: 476 CY

sqft - Square Feet
CY - Cubic Yard

Legend

-  1ft Excavation
-  2ft Excavation
-  4ft Excavation
-  6ft Excavation
-  Deferral Area
-  Horizontal Delineation Point
-  Vertical Delineation Point

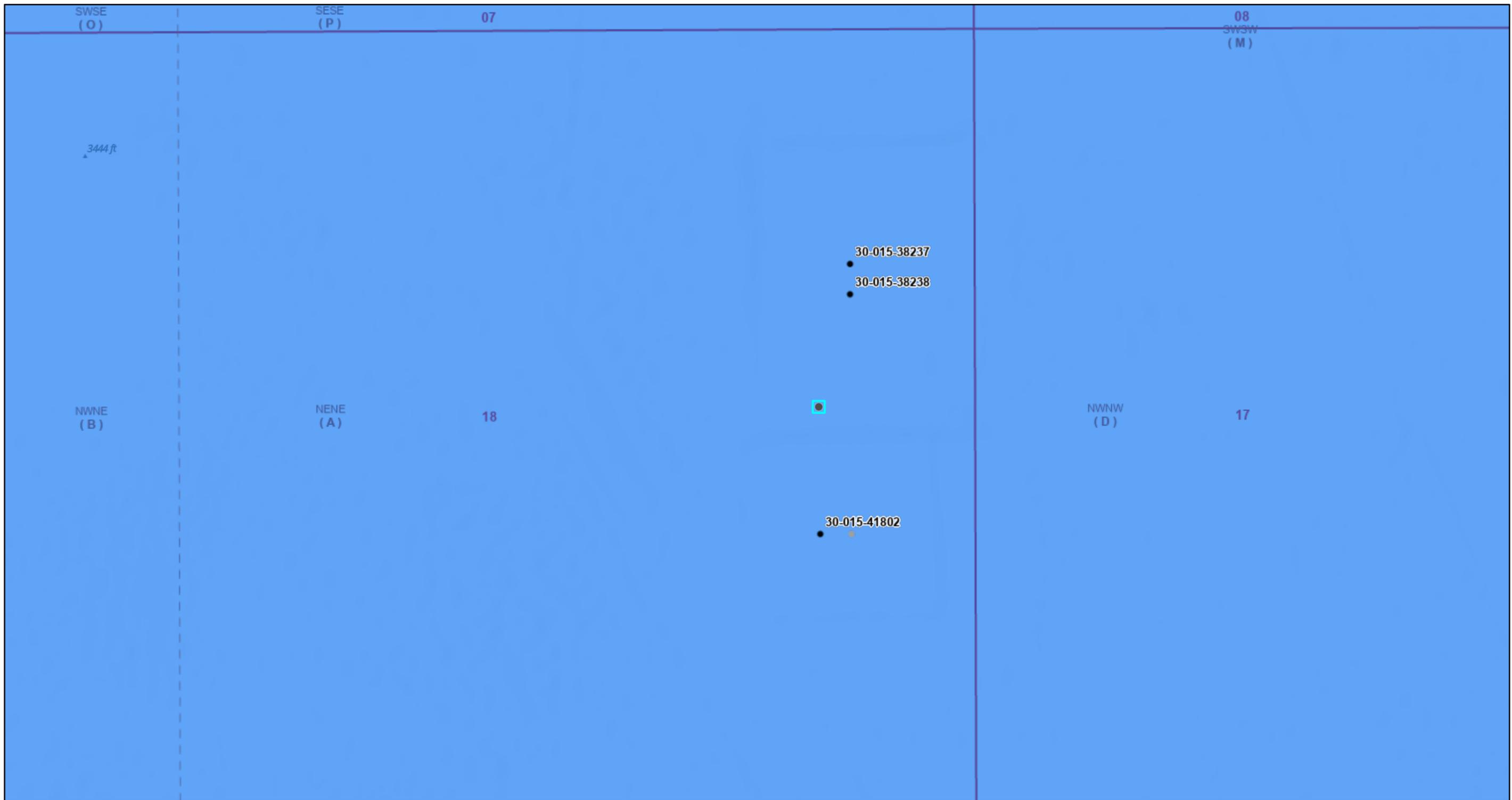


Google Earth

90 ft

SITE CHARACTERIZATION INFORMATION

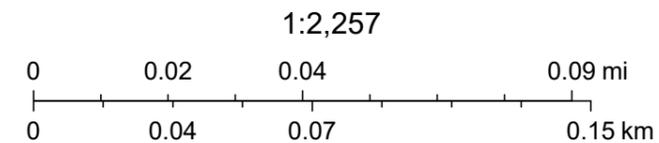
Karst Potential Map



9/25/2024, 2:29:55 PM

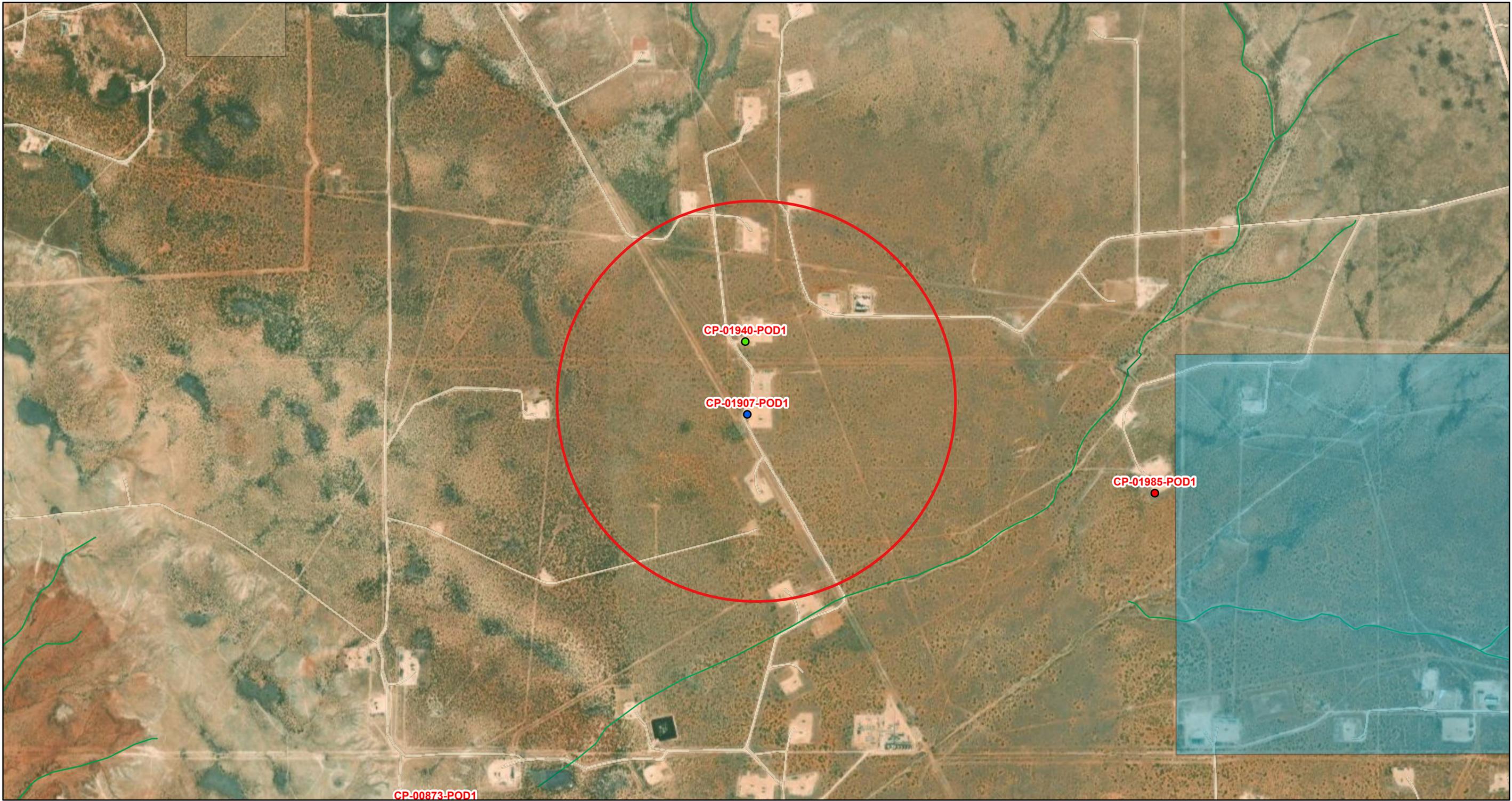
Wells - Large Scale Karst Occurrence Potential PLSS First Division

- Oil, Active Medium
- Oil, Cancelled PLSS Second Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

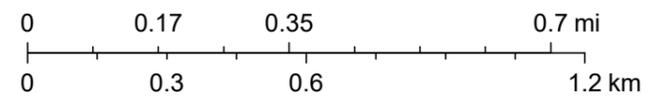
OSE POD Location Map



9/25/2024, 2:35:43 PM

- Override 1
- Plugged
- Both Estates
- Stream River
- GIS WATERS PODs
- OSE District Boundary
- NHD Flowlines
- Active
- New Mexico State Trust Lands
- Artificial Path
- Pending
- Subsurface Estate
- Connector

1:18,056



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1907
Well owner: Devon Energy Phone No.: 575-748-1838
Mailing address: 6488 7 Rivers Hwy
City: Artesia State: New Mexico Zip code: 88210

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Cameron Pruitt
- 4) Date well plugging began: 7/13/2022 Date well plugging concluded: 7/13/2022
- 5) GPS Well Location: Latitude: 32 deg, 39 min, 55.76 sec
Longitude: 103 deg, 54 min, 4.95 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 5/23/2022
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

CSE DTJ AUG 11 2022 PM 4:05

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| <u>Depth</u> (ft bgl) | <u>Plugging Material Used</u> (include any additives used) | <u>Volume of Material Placed</u> (gallons) | <u>Theoretical Volume of Borehole/ Casing</u> (gallons) | <u>Placement Method</u> (tremie pipe, other) | <u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.) |
|--------------------------|---|---|--|---|---|
| 0-10' | Hydrated Bentonite | Approx. XX gallons | 15 gallons | Augers | |
| 10'-55' | Drill Cuttings | Approx. 71 gallons | 71 gallons | Boring | |

USE ON AUG 11 2022 PM 4:05

| | | | | |
|-------------|---|--------|---|------------|
| MULTIPLY | | BY | | AND OBTAIN |
| cubic feet | x | 7.4805 | = | gallons |
| cubic yards | x | 201.97 | = | gallons |

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

8/4/2022

Signature of Well Driller

Date

4_CP-1907_Well Record and Log-forsign

Final Audit Report

2022-08-04

| | |
|-----------------|--|
| Created: | 2022-08-04 |
| By: | Lucas Middleton (lucas@atkinseng.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAA4kcEI3zlePHJkrfQIIUnN4avqQDcQdni |

"4_CP-1907_Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2022-08-04 - 8:42:42 PM GMT- IP address: 64.17.71.25
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-08-04 - 8:44:35 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2022-08-04 - 9:16:24 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-08-04 - 9:18:32 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2022-08-04 - 9:18:32 PM GMT

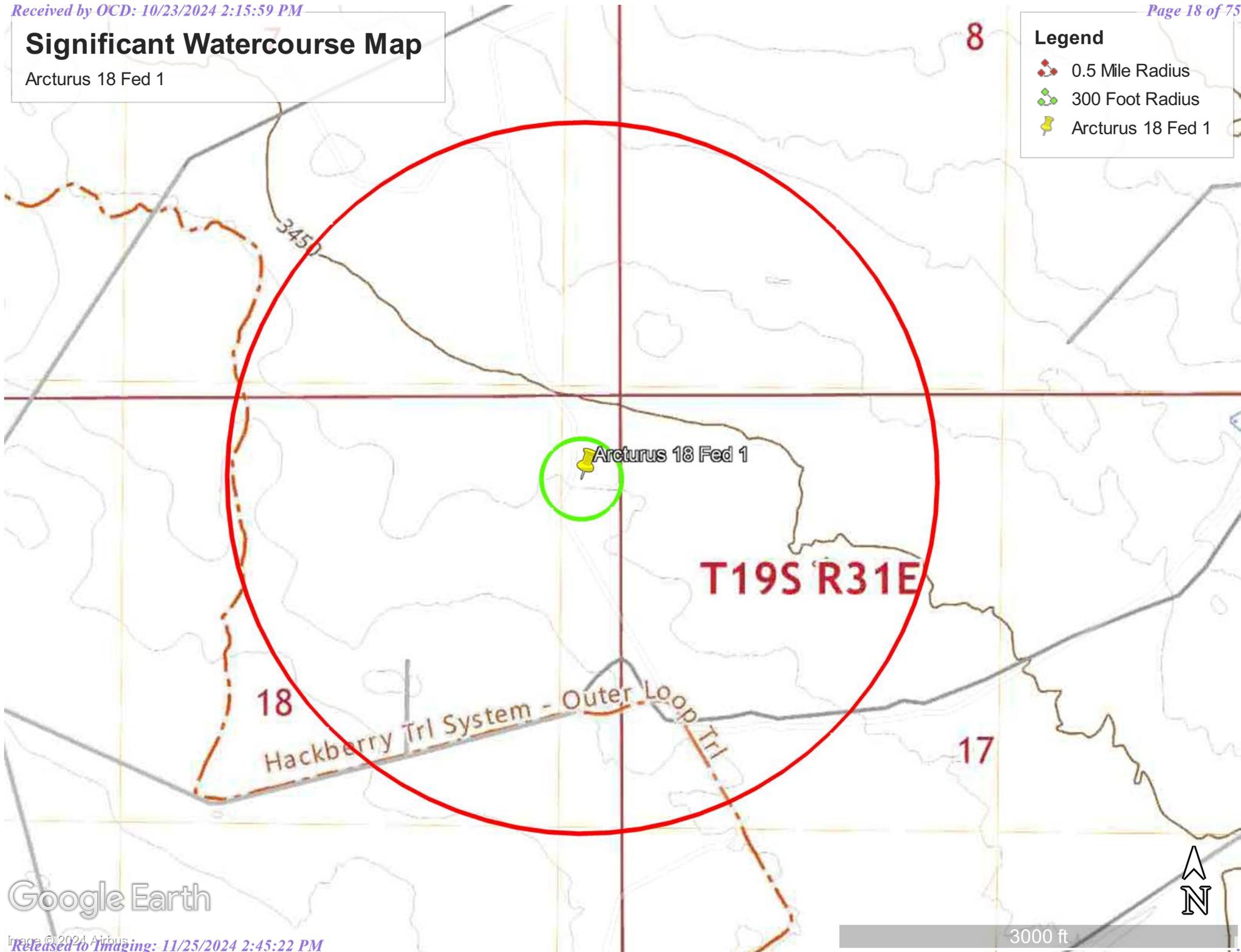
05E 01T AUG 11 2022 PM4105

Significant Watercourse Map

Arcturus 18 Fed 1

Legend

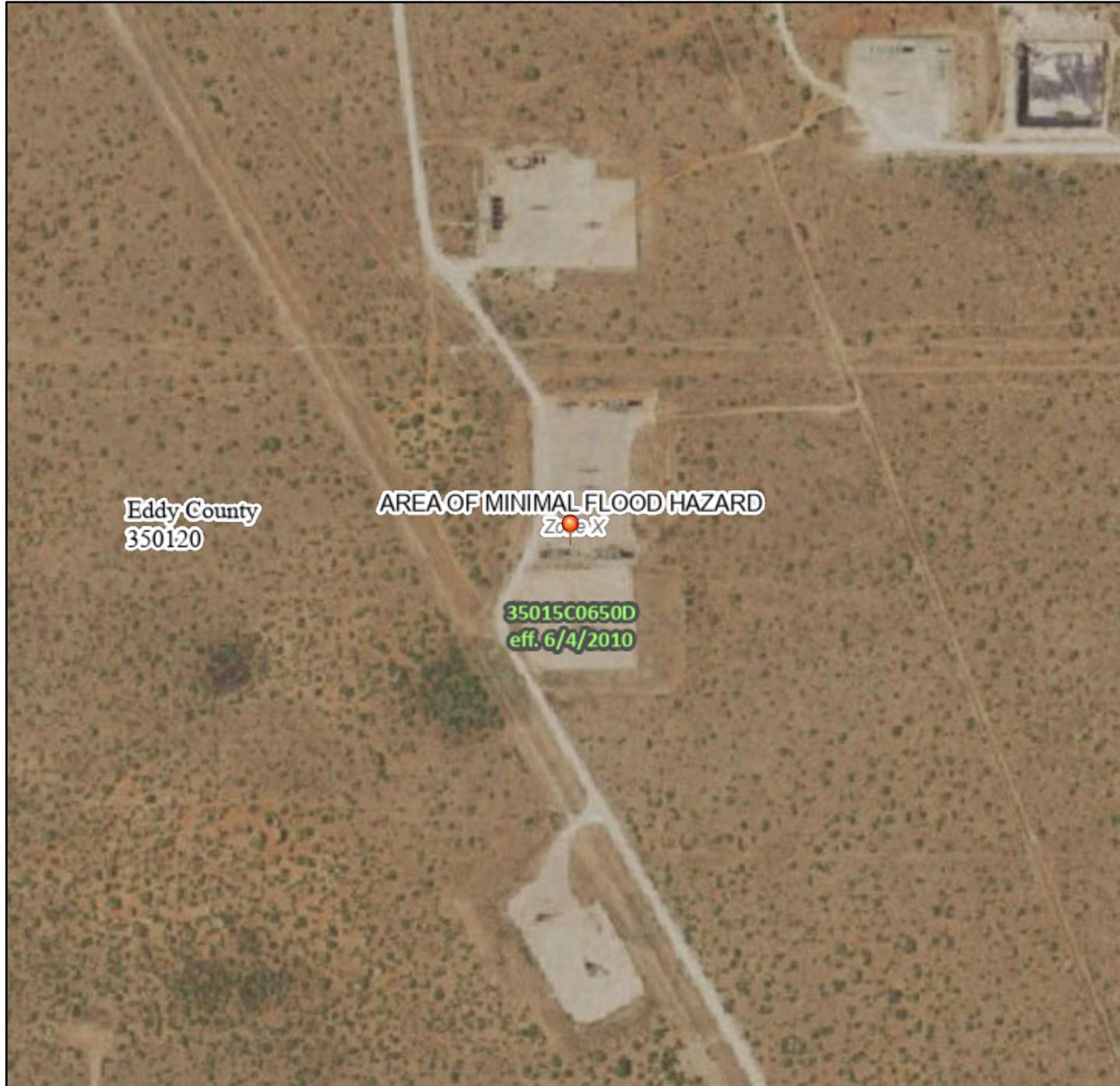
-  0.5 Mile Radius
-  300 Foot Radius
-  Arcturus 18 Fed 1



National Flood Hazard Layer FIRMette



103°54'22"W 32°40'13"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

| | | |
|----------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) Zone A, V, A99 |
| | | With BFE or Depth Zone AE, AO, AH, VE, AR |
| | | Regulatory Floodway |

| | | |
|-----------------------------|--|---|
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
| | | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | | Area with Reduced Flood Risk due to Levee. See Notes. Zone X |
| | | Area with Flood Risk due to Levee Zone D |

| | | |
|-------------|--|---|
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard Zone X |
| | | Effective LOMRs |

| | | |
|--------------------|--|----------------------------------|
| GENERAL STRUCTURES | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |

| | | |
|----------------|--|---|
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |

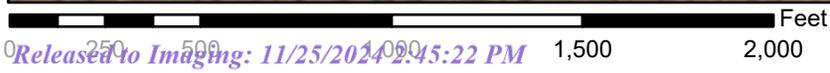
| | | |
|------------|--|---------------------------|
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/25/2024 at 4:32 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



1:6,000

103°53'45"W 32°39'42"N



Wetlands Map



September 25, 2024

Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Lake
-  Other
-  Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Devon Energy Production Company, LP

Arcturus 18 Fed 1 and 2 Battery

Photograph No. 1

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

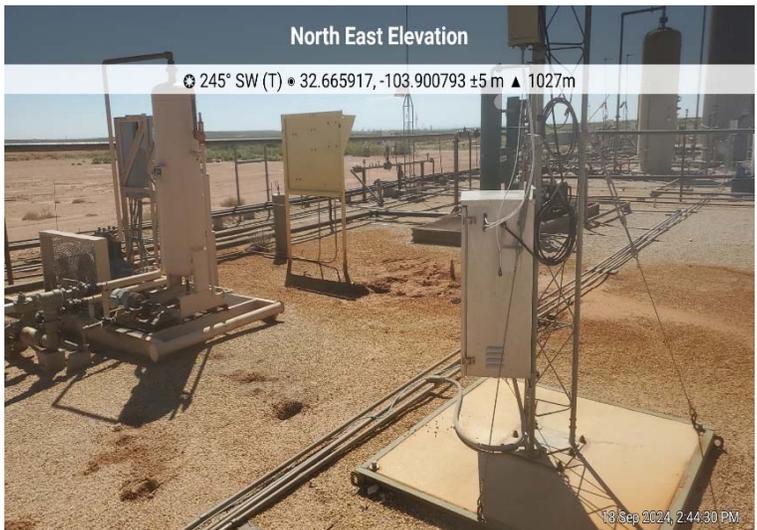


Photograph No. 2

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



Photograph No. 3

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



PHOTOGRAPHIC LOG

Devon Energy Production Company, LP

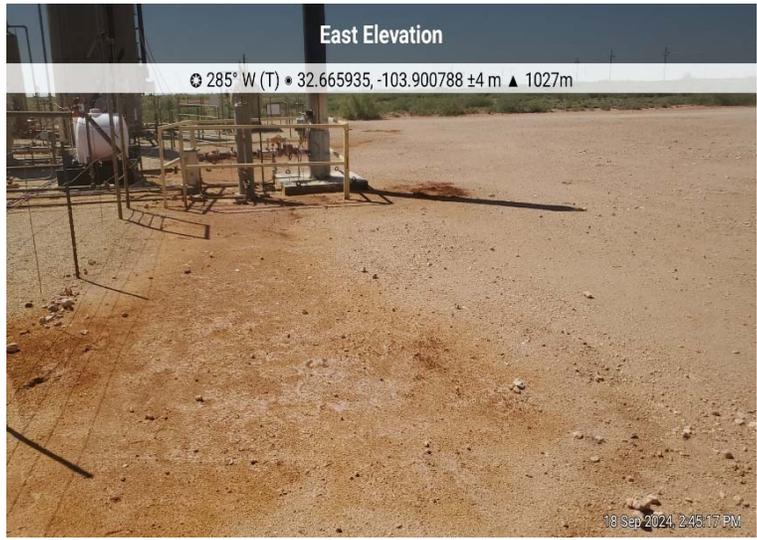
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 4

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

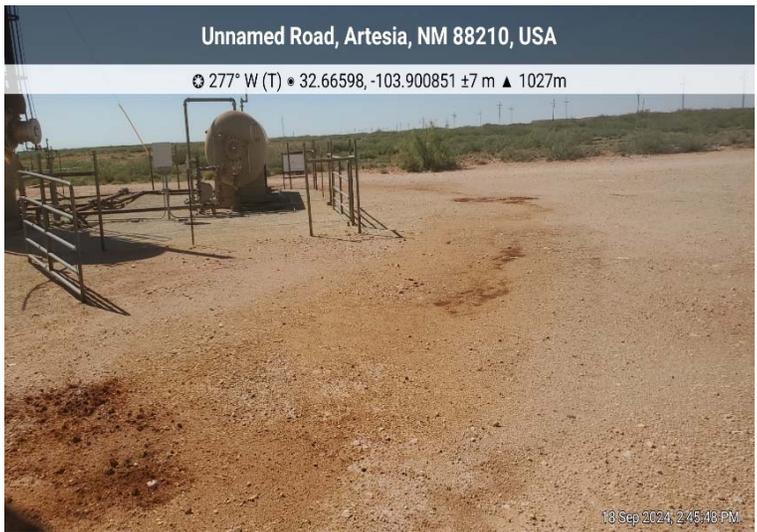


Photograph No. 5

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



Photograph No. 6

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



PHOTOGRAPHIC LOG

Devon Energy Production Company, LP

Arcturus 18 Fed 1 and 2 Battery

Photograph No. 7

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



Photograph No. 8

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

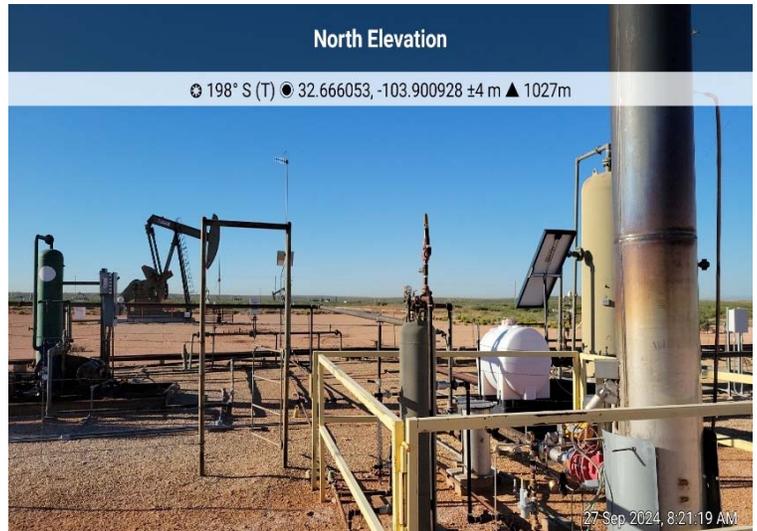


Photograph No. 9

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 24, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 1 0-.5 (H245693-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.16 | 108 | 2.00 | 0.377 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.24 | 112 | 2.00 | 0.262 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.28 | 114 | 2.00 | 0.403 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 6.89 | 115 | 6.00 | 0.375 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8800 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 1 1' (H245693-02)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6930 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 2' (H245693-03)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5000 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 1 3' (H245693-04)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2560 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 4' (H245693-05)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 2 0-5 (H245693-06)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10000 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | 169 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | 27.5 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 2 1' (H245693-07)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8400 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 2 2' (H245693-08)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8530 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 3' (H245693-09)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4800 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | QM-07 |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 2 4' (H245693-10)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 3 0-5 (H245693-11)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5360 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 1' (H245693-12)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8240 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 2' (H245693-13)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10000 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 3' (H245693-14)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10400 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 3 4' (H245693-15)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8400 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 3 5' (H245693-16)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4160 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 3 6' (H245693-17)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 4 0-5 (H245693-18)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 12700 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 4 1' (H245693-19)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5860 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 4 2' (H245693-20)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 211 | 106 | 200 | 1.07 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 203 | 102 | 200 | 1.49 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: V - 5 0-5 (H245693-21)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.12 | 106 | 2.00 | 0.158 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.97 | 98.5 | 2.00 | 0.218 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 1.99 | 99.4 | 2.00 | 0.0168 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 5.90 | 98.4 | 6.00 | 0.0891 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8530 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 5 1' (H245693-22)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: H - 1 0-.5 (H245693-23)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 0-.5 (H245693-24)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 0-.5 (H245693-25)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 384 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | 179 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | 90.4 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: H - 4 0-.5 (H245693-26)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: H - 5 0-.5 (H245693-27)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: H - 6 0-.5 (H245693-28)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: CT | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 09/20/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: H - 7 0-.5 (H245693-29)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: H - 8 0-.5 (H245693-30)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|-----------------------|---------------------|------------------|
| Received: | 09/18/2024 | Sampling Date: | 09/18/2024 |
| Reported: | 09/24/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | DEVON -LEA COUNTY, NM | | |

Sample ID: H - 9 0-.5 (H245693-31)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 480 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/18/2024
 Reported: 09/24/2024
 Project Name: ARCTURUS 18 FED 1
 Project Number: 249148
 Project Location: DEVON -LEA COUNTY, NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 10 0-5 (H245693-32)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.35 | 118 | 2.00 | 0.452 | |
| Toluene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.42 | 121 | 2.00 | 2.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/20/2024 | ND | 2.59 | 130 | 2.00 | 4.51 | |
| Total Xylenes* | <0.150 | 0.150 | 09/20/2024 | ND | 7.82 | 130 | 6.00 | 5.90 | |
| Total BTEX | <0.300 | 0.300 | 09/20/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10400 | 16.0 | 09/19/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/19/2024 | ND | 213 | 106 | 200 | 5.77 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/19/2024 | ND | 206 | 103 | 200 | 3.89 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/19/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | |
|---|--|---|--|--|--|
| Company Name: <u>VTLC</u> Project Manager: <u>Ethan Seburns</u> Address: <u>209 W McLean St</u> City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u> Phone #: <u>505 54 2400</u> Fax #: <u>505 54 2400</u> Project #: <u>249148</u> Project Owner: <u>Dejon</u> Project Name: <u>Arcturus 18 Fed 1</u> Project Location: <u>Lea County</u> Sampler Name: <u>Ed V. McNeill</u> | | BILL TO P.O. #: <u>2141761</u> Company: Attn: Address: City: State: Zip: | | ANALYSIS REQUEST | |
| Lab I.D. <u>H245003</u> Sample I.D. | | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: | | MATRIX PRESERV ACID/BASE: ICE / COOL OTHER: | |
| Date: <u>9-18-24</u> Received By: <u>[Signature]</u> Time: <u>4:30</u> Date: _____ Received By: _____ Time: _____ | | DATE TIME <u>9-18 9:00</u> | | TPT Chlorides BTEX | |
| Relinquished By: <u>[Signature]</u> Delivered By: (Circle One) <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other: Corrected Temp. °C: <u>2.4</u> | | Observed Temp. °C: <u>5.0</u> Corrected Temp. °C: <u>2.4</u> | | Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: <u>[Signature]</u> (Initials) Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.5°C | |
| Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: | | Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C | | REMARKS: | |



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: UTLVE P.O. #: 2141701

Project Manager: Ethan Seburns Company: _____

Address: 209 W McLean St Attn: _____

City: Carlsbad State: NM zip: 88220

Phone #: 505 206 5456 Fax #: _____

Project #: 249148 Project Owner: Dejon City: _____

Project Name: Actarus 18 Fed 1 State: _____ Zip: _____

Project Location: Lea County Phone #: _____

Sampler Name: CV V. Umbell Fax #: _____

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | REMARKS |
|----------------|------------------|-------------------|--------------|-------------------------------------|------------|------|-----|--------|--------|------------|-------------|--------------|--|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | | | |
| <u>1145003</u> | <u>V-3 0-1.5</u> | <u>6</u> | <u>1</u> | <input checked="" type="checkbox"/> | | | | | | | <u>9-18</u> | <u>10:30</u> | <u>TPH</u> <u>chlorides</u> <u>BTX</u> |
| <u>12</u> | <u>V-3 2'</u> | | | | | | | | | | | | |
| <u>13</u> | <u>V-3 3'</u> | | | | | | | | | | | | |
| <u>14</u> | <u>V-3 4'</u> | | | | | | | | | | | | |
| <u>15</u> | <u>V-3 5'</u> | | | | | | | | | | | | |
| <u>16</u> | <u>V-3 6'</u> | | | | | | | | | | | | |
| <u>17</u> | <u>V-3 0-5</u> | | | | | | | | | | | | |
| <u>18</u> | <u>V-4 1'</u> | | | | | | | | | | | | |
| <u>19</u> | <u>V-4 2'</u> | | | | | | | | | | | | |

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Relinquished By: [Signature] Date: 9-18-24 Time: 4:30

Received By: [Signature] Date: _____ Time: _____

Turnaround Time: _____ Standard Rush Bacteria (only)

Thermometer ID #140 Cool Intact Observed Temp. °C _____

Correction Factor -0.8°C Cool Intact Observed Temp. °C _____

Corrected Temp. °C _____

Verbal Result: Yes No Add'l Phone #: _____

All Results are emailed. Please provide Email address: _____

REMARKS: _____

Delivered By: (Circle One) UPS Bus Other: _____

Observed Temp. °C 50.2 Sample Condition Cool Intact Yes No

Corrected Temp. °C 44.4 Yes No

CHECKED BY: [Signature] (Initials)

FORM 006 (1-23) 09/07/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

| Company Name: <u>VTLE</u> | | P.O. #: <u>7141701</u> | | | | | | | |
|--|----------------|------------------------|--------------|----------|----------|----------|-------------|-------------|------------------|
| Project Manager: <u>Ethan Seburns</u> | | Company: | | | | | | | |
| Address: <u>209 W McLean St</u> | | Attn: | | | | | | | |
| City: <u>Carlisle</u> | | Address: | | | | | | | |
| Phone #: <u>24854 206 5456</u> Fax #: | | City: | | | | | | | |
| Project #: <u>249148</u> Project Owner: <u>Dejon</u> | | State: | | | | | | | |
| Project Name: <u>Acturus 18 Fed 1</u> | | Zip: | | | | | | | |
| Project Location: <u>Lea County</u> | | Phone #: | | | | | | | |
| Sampler Name: <u>CV Umbell</u> | | Fax #: | | | | | | | |
| <small>FOR LAB USE ONLY</small> | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | PRESERV. | SAMPLING | DATE | TIME | ANALYSIS REQUEST |
| <u>H45403</u> | <u>V-5 0-5</u> | <u>6</u> | <u>1</u> | <u>X</u> | <u>✓</u> | | <u>9-18</u> | <u>9:50</u> | <u>TPH</u> |
| <u>01</u> | <u>V-5 1</u> | | | | | | | | <u>chlorides</u> |
| <u>02</u> | <u>H-1 0-5</u> | | | | | | | | <u>BTEX</u> |
| <u>03</u> | <u>H-2 0-5</u> | | | | | | | | |
| <u>04</u> | <u>H-3 0-5</u> | | | | | | | | |
| <u>05</u> | <u>H-4 0-5</u> | | | | | | | | |
| <u>06</u> | <u>H-5 0-5</u> | | | | | | | | |
| <u>07</u> | <u>H-6 0-5</u> | | | | | | | | |
| <u>08</u> | <u>H-7 0-5</u> | | | | | | | | |
| <u>09</u> | <u>H-8 0-5</u> | | | | | | | | |

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Relinquished By: [Signature] Date: 9-18-24 Time: 11:30
 Received By: Stockiguer Date: 9-18-24 Time: 11:30

Delivered By: (Circle One) Other Bus UPS Corrected Temp. °C 4.4
 Observed Temp. °C 5.0 Sample Condition: Cool Intact Yes No Checked By: [Signature]
 Turnaround Time: _____ Standard Rush Bacteria (only) Sample Condition: Cool Intact Yes No Observed Temp. °C _____ Corrected Temp. °C _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: UTL
 Project Manager: Ethan Seburns
 Address: 209 W McLean St State: NM zip: 88220
 City: Carlsbad
 Phone #: 505 206 5456 Fax #: _____
 Project #: 249148 Project Owner: DeJon
 Project Name: Arcturus 18 Fed 1
 Project Location: Lea County
 Sampler Name: CVL V. Umbeck
 FOR LAB USE ONLY

P.O. #: 2191171
 Company: _____
 Attn: _____
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | PRESERV. | SAMPLING | DATE | TIME | ANALYSIS REQUEST |
|----------------|----------------|-------------------------------------|--------------|---|----------|----------|-------------|--------------|---|
| <u>H450003</u> | <u>H-9 8-5</u> | <input checked="" type="checkbox"/> | <u>1</u> | <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE OTHER: _____ <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL OTHER: _____ | | | <u>9-18</u> | <u>10:00</u> | <u>TPH</u> <u>chlorides</u> <u>BTEX</u> |

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Relinquished By: _____ Date: _____ Time: _____
 Received By: Speedieghue Date: 9-18-24 Time: 4:30
 Checked By: SRZ (Initials)

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: 5.0 Corrected Temp. °C: 4.4
 Sample Condition: Cool Intact Yes No

Turnaround Time: _____ Standard Rush
 Thermometer ID #140 Correction Factor -0.5°C
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Observed Temp. °C: _____ Corrected Temp. °C: _____

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

REMARKS: _____

FORN:00011337000724



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 03, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 09/27/24 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 09/27/2024 | Sampling Date: | 09/27/2024 |
| Reported: | 10/03/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Tamara Oldaker |
| Project Location: | DEVON -EDDY COUNTY, NM | | |

Sample ID: H - 3A 0-6" (H245894-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/30/2024 | ND | 1.98 | 98.8 | 2.00 | 3.56 | |
| Toluene* | <0.050 | 0.050 | 09/30/2024 | ND | 2.09 | 105 | 2.00 | 4.00 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/30/2024 | ND | 2.23 | 111 | 2.00 | 7.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/30/2024 | ND | 6.73 | 112 | 6.00 | 9.05 | |
| Total BTEX | <0.300 | 0.300 | 09/30/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 09/30/2024 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/30/2024 | ND | 180 | 90.0 | 200 | 0.397 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/30/2024 | ND | 187 | 93.6 | 200 | 2.09 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/30/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

| | | | |
|-------------------|------------------------|---------------------|----------------|
| Received: | 09/27/2024 | Sampling Date: | 09/27/2024 |
| Reported: | 10/03/2024 | Sampling Type: | Soil |
| Project Name: | ARCTURUS 18 FED 1 | Sampling Condition: | Cool & Intact |
| Project Number: | 249148 | Sample Received By: | Tamara Oldaker |
| Project Location: | DEVON -EDDY COUNTY, NM | | |

Sample ID: H - 10A 0-6" (H245894-03)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 09/30/2024 | ND | 1.98 | 98.8 | 2.00 | 3.56 | | |
| Toluene* | <0.050 | 0.050 | 09/30/2024 | ND | 2.09 | 105 | 2.00 | 4.00 | | |
| Ethylbenzene* | <0.050 | 0.050 | 09/30/2024 | ND | 2.23 | 111 | 2.00 | 7.17 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/30/2024 | ND | 6.73 | 112 | 6.00 | 9.05 | | |
| Total BTEX | <0.300 | 0.300 | 09/30/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 09/30/2024 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | <10.0 | 10.0 | 09/30/2024 | ND | 180 | 90.0 | 200 | 0.397 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/30/2024 | ND | 187 | 93.6 | 200 | 2.09 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/30/2024 | ND | | | | | | |

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H245894

Project Manager: Eihan Sessums
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159

Bill to: (if different)
 Company Name: Devon Energy Production
 Address:
 City, State ZIP:

Email: esessums@ntglobal.com

Page 1 of 1

Work Order Comments
 Program: UST/PST PRP Brownfields RRC Superfund
 State of Project:
 Reporting Level Level II Level III PST/UST RRP Level IV
 Deliverables: EDD AdAPT Other:

Project Name: ARCTURUS 18 FED 1 BATTERY
 Project Number: 249148
 Project Location: Eddy Co, NM
 Sampler's Name: Clayton Turnas
 PO #: 21411701

Turn Around
 Routine Rush
 Due Date:
 TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT
 Received Intact: Yes No
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Total Containers: 4

Temp Blank: Yes No
 Thermometer ID: 140
 Correction Factor: -0.6°C
 Temperature Reading: 0.18°C
 Corrected Temperature: -0.5°C

Wet Ice: Yes No

| Sample Identification | Depth (ft bgs) | Date | Time | Soil | Water | Grab/Comp | # of Cont | Parameters | | Pres. Code | ANALYSIS REQUEST | Preservative Codes |
|-----------------------|----------------|-----------|------|------|-------|-----------|-----------|------------|------------------------------|------------|------------------|--|
| | | | | | | | | BTEX 8021B | TPH 8015M (GRO + DRO + MRO) | | | |
| H-3A | 0-6" | 9/27/2024 | 7:00 | X | | Grab | 1 | X | X | | | None: NO DI Water: H ₂ O |
| H-3B | 0-6" | 9/27/2024 | 7:03 | X | | Grab | 1 | X | X | | | Cool: Cool MeOH: Me |
| H-10A | 0-6" | 9/27/2024 | 7:06 | X | | Grab | 1 | X | X | | | HCL: HC HNO ₃ : HN |
| H-10B | 1-1.5' | 9/27/2024 | 7:09 | X | | Grab | 1 | X | X | | | H ₂ SO ₄ : H ₂ NaOH: Na |
| | | | | | | | | | | | | H ₃ PO ₄ : HP NaHSO ₄ : NABIS |
| | | | | | | | | | | | | Na ₂ S ₂ O ₅ : NaSO ₅ Zn Acetate+NaOH: Zn |
| | | | | | | | | | | | | NaOH+Ascorbic Acid: SAPC |

NOTE: HOLD B SAMPLES UNTIL RESULTS ARE RECEIVED FOR A SAMPLES

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) _____ Received by: (Signature) _____
 Date/Time: 9-27-24 11:10 Date/Time: _____
 Relinquished by: (Signature) _____ Received by: (Signature) _____
 Date/Time: _____ Date/Time: _____

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 395246

QUESTIONS

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 395246 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|----------------------|--|
| Prerequisites | |
| Incident ID (n#) | nAPP2426141700 |
| Incident Name | NAPP2426141700 ARCTURUS 18 FED 1 & 2 BATTERY @ 0 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Plan Received |
| Incident Facility | [fAPP2129453521] ARCTURUS 18 FED 1&2 BATTERY |

| | |
|---|-------------------------------|
| Location of Release Source | |
| <i>Please answer all the questions in this group.</i> | |
| Site Name | ARCTURUS 18 FED 1 & 2 BATTERY |
| Date Release Discovered | 09/16/2024 |
| Surface Owner | Federal |

| | |
|--|------------------------|
| Incident Details | |
| <i>Please answer all the questions in this group.</i> | |
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| | |
|---|--|
| Nature and Volume of Release | |
| <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i> | |
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Flow Line - Production Produced Water Released: 10 BBL Recovered: 5 BBL Lost: 5 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | found a leak coming from a water line coming from a treater to the water tanks. 9.7 bbls spilled onto pad. 5 bbls recovered. |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 395246

QUESTIONS (continued)

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 395246 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|--|--|
| Nature and Volume of Release (continued) | |
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | No |
| Reasons why this would be considered a submission for a notification of a major release | <i>Unavailable.</i> |
| <i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i> | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

| | |
|--|----------------------|
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | <i>Not answered.</i> |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 10/23/2024 |
|--|--|

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 395246

QUESTIONS (continued)

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 395246 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|--|--------------------------------|
| Site Characterization | |
| <i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i> | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 51 and 75 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between 1 and 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Greater than 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Greater than 5 (mi.) |
| Any other fresh water well or spring | Greater than 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Greater than 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Medium |
| A 100-year floodplain | Between 1 and 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

| | |
|---|------------|
| Remediation Plan | |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i> | |
| Requesting a remediation plan approval with this submission | Yes |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i> | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 12700 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 269 |
| GRO+DRO (EPA SW-846 Method 8015M) | 179 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i> | |
| On what estimated date will the remediation commence | 10/21/2024 |
| On what date will (or did) the final sampling or liner inspection occur | 11/11/2024 |
| On what date will (or was) the remediation complete(d) | 02/02/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed | 0 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 0 |
| What is the estimated surface area (in square feet) that will be remediated | 3431 |
| What is the estimated volume (in cubic yards) that will be remediated | 476 |
| <i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i> | |
| <i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i> | |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 395246

QUESTIONS (continued)

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 395246 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

| | |
|---|--|
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for off-site disposal | HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510] |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. |
| OR is the off-site disposal site, to be used, out-of-state | Not answered. |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. |
| (In Situ) Soil Vapor Extraction | Not answered. |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. |
| OTHER (Non-listed remedial process) | Not answered. |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 10/23/2024 |
|--|--|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 395246

QUESTIONS (continued)

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 395246 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|---|----|
| Deferral Requests Only | |
| <i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i> | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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QUESTIONS, Page 6

Action 395246

QUESTIONS (continued)

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 395246 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| | |
|--|----------------|
| Sampling Event Information | |
| Last sampling notification (C-141N) recorded | {Unavailable.} |

| | |
|---|----|
| Remediation Closure Request | |
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i> | |
| Requesting a remediation closure approval with this submission | No |

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Energy, Minerals and Natural Resources
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CONDITIONS

Action 395246

CONDITIONS

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 395246 |
| | Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| rhamlet | The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table 1 of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area will need confirmation samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule. | 11/25/2024 |
| rhamlet | If you believe certain areas will require a deferral, please make sure that they have been fully delineated and specify the exact soil sample locations. The OCD needs to see that every measure has been taken to remediate the release before a deferral can be granted. After all possible contaminated soil has been removed, a formal deferral request will need to be uploaded to the OCD Permitting Portal for review. | 11/25/2024 |