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February 7, 2025

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

Re: Site Characterization and Remediation Deferral Request
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 Deferral Request 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 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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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

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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 concentrations 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.

Remedial Action Activities and Confirmation Sampling

After receiving and evaluating the soil boring data, NTGE proposed 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.

On January 20, 2025, NTGE was onsite to collect a total of nineteen (19) base composite samples (CS-1 through CS-19) and fifteen (15) sidewall samples (SW-1 through SW-15) to ensure impacted soil was removed. Soil samples were delivered to Cardinal laboratories in Hobbs, New Mexico for the analysis of BTEX, TPH, and chloride. Analytical results indicated that all samples were below NMOCD regulatory criteria for the site. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2.

Soil samples were placed directly into laboratory provided containers, placed on ice, and transported under proper chain-of-custody protocol to the lab. The confirmation samples collected represent an area no greater than 200 square feet and were analyzed for BTEX (EPA method 8021B), TPH (EPA method 8015M), and chloride (method 4500-Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Deferral Sampling

On January 28, 2025, NTGE installed one (1) vertical deferral sample point (DV-1) at depths ranging from surface (0) to four and a half (4.5) ft bgs, and two (2) horizontal deferral sample points (DH-1 and DH-2) at depths ranging from surface (0) to half (0.5) ft bgs with a geotechnical hand auger to characterize the impacts that couldn't be reached due to facility infrastructure. Laboratory results are presented in Table 2 and sampling locations are shown on Figure 5.

Soil samples were placed directly into laboratory provided containers, placed on ice, and transported under proper chain-of-custody protocol to the lab. The deferral samples were analyzed for BTEX, TPH, and chloride. All samples were below NMOCD standards with the exception of DV-1 (0-6" and 1-1.5 ft bgs) which had TPH concentrations above standard. Laboratory reports containing analytical methods and chain-of-custody documents are attached.

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Deferral Request

Devon personnel have expressed that the excavation of areas V-1, H-3, and H-10 are unfeasible due to the presence of facility infrastructure (i.e., flowlines, tank batteries, heater treater, and pump unit) around the excavation and the associated safety concerns in further encroaching the infrastructure. The infrastructure in and around the excavation is shown on Figure 5.

On behalf of Devon, NTG Environmental formally request a deferral to address the remaining impacts at the time of facility decommissioning or in the event infrastructure modifications are made in the area that would alleviate the safety concerns, whichever is sooner. Should the deferral request be granted, a remedial action report documenting excavation expansion and confirmation sampling activities will be prepared and filed following completion of the further actions to be completed at a further date.

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

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	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

Table 2
Summary of Soil Analytical Data - Confirmation 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 1 Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC														
Base Confirmation Samples														
CS-1	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-2	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-3	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-4	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-5	1/20/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-6	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-7	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-8	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-9	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-10	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-11	1/20/2025	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-12	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-13	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS-14	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-15	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-16	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-17	1/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-18	1/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-19	1/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Sidewall Confirmation Samples														
SW-1	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-2	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-3	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-4	1/20/2025	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-5	1/20/2025	4-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-6	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-7	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-8	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-9	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-10	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-11	1/20/2025	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-12	1/20/2025	2-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-13	1/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-14	1/20/2025	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-15	1/20/2025	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DV-1	1/28/2025	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	117	117	65.1	182.1	<16.0	
DV-1	1/28/2025	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	156	156	92.1	248.1	<16.0	
DV-1	1/28/2025	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DV-1	1/28/2025	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DV-1	1/28/2025	4-4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DH-1	1/28/2025	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.5	25.5	<10.0	25.5	<10.0	32.0
DH-2	1/28/2025	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Table 2
Summary of Soil Analytical Data - Confirmation 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)	
								Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC					
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg

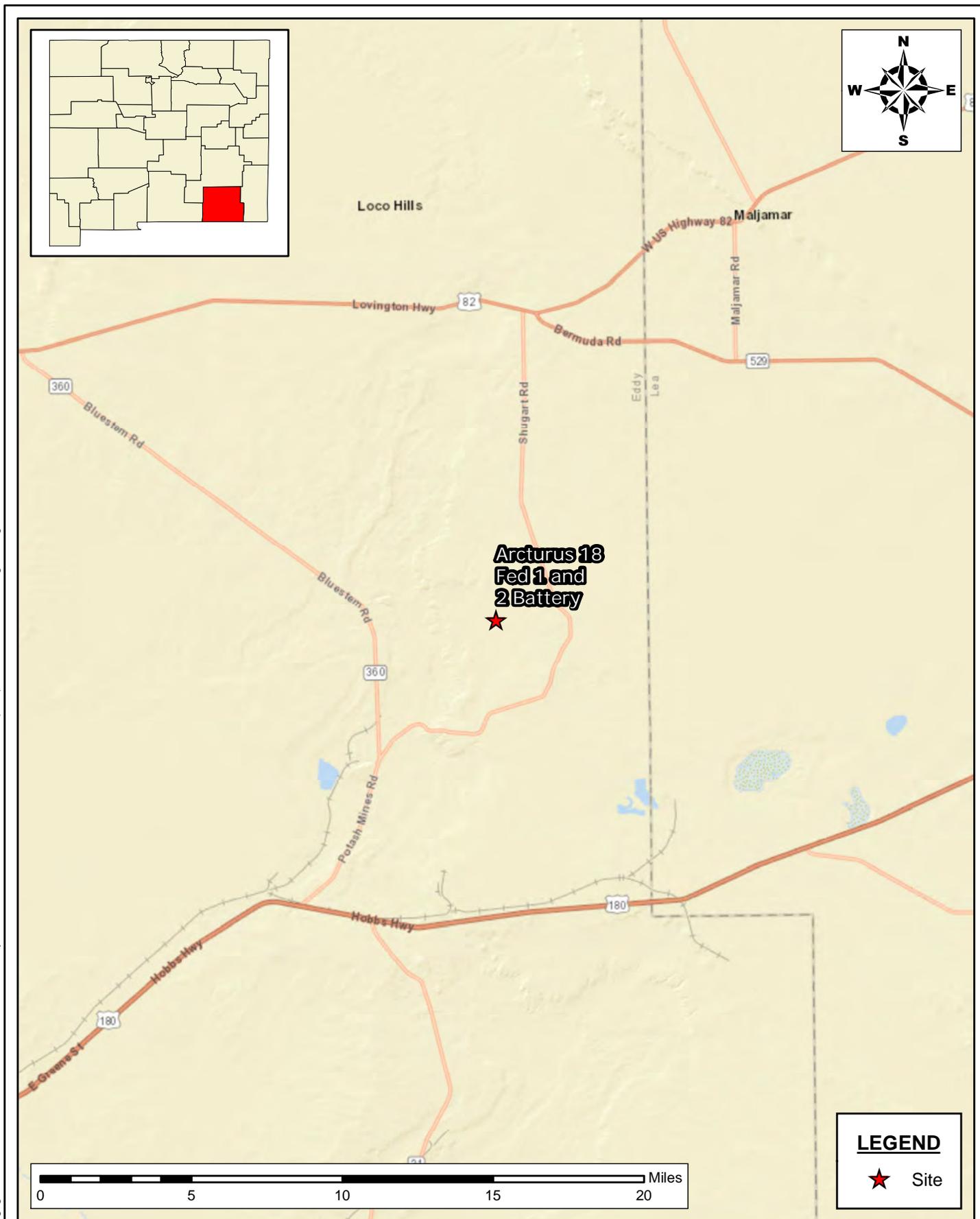
Notes:

- 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-4 Sample Point Excavated

FIGURES

Document Path: C:\Users\ntg\gis\New_Tech_Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\NRSC\249148 - (RSC) Arcturus 18 Fed 17- Figures\Figure_1_SL.mxd



LEGEND

★ Site

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

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

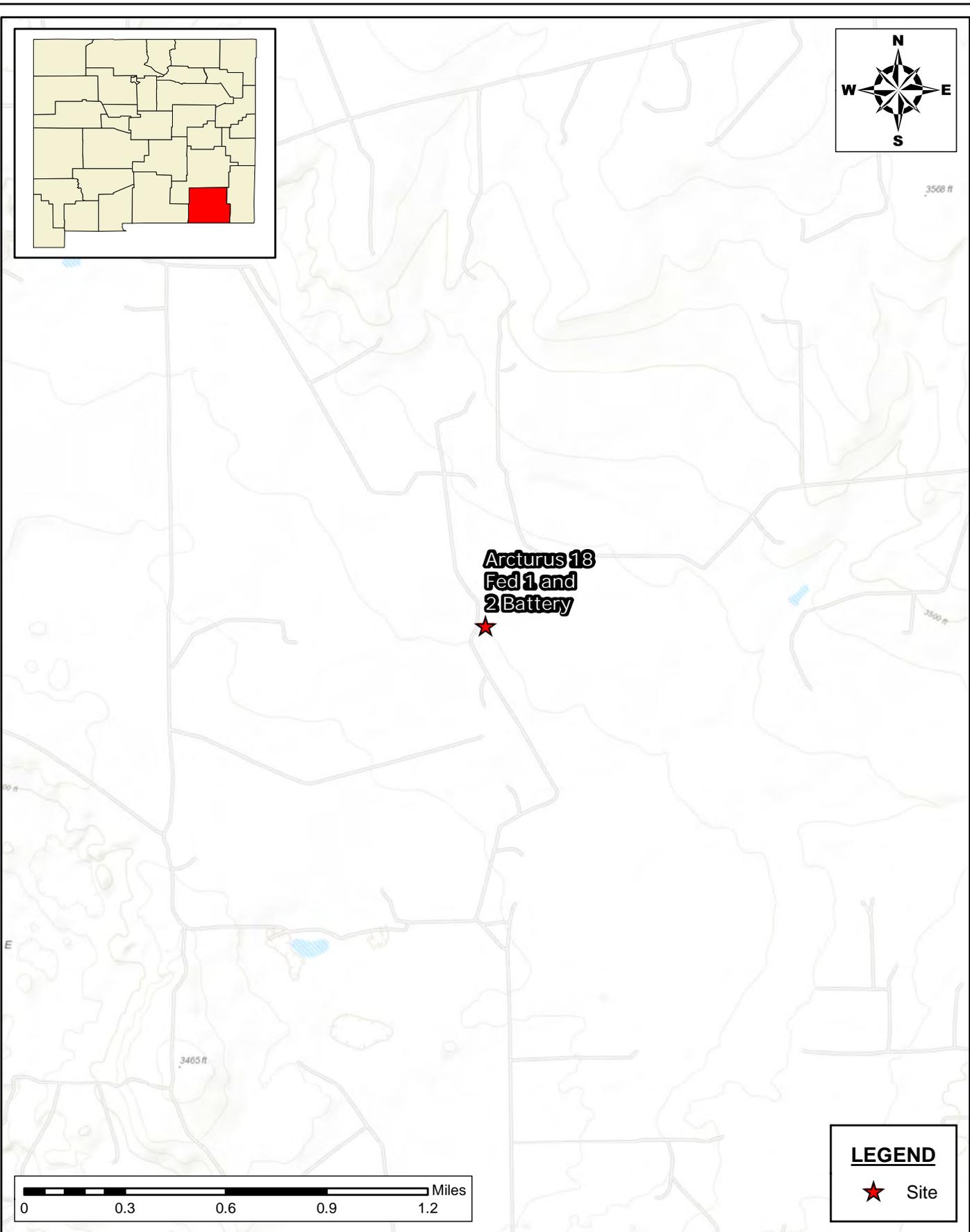
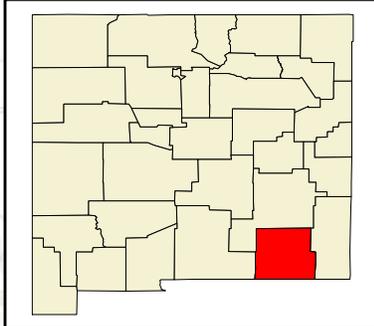


NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983

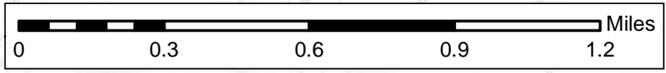
DRAWING NUMBER:
FIGURE 1
 SHEET NUMBER:
1 of 1

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

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**Arcturus 18
Fed 1 and
2 Battery**



LEGEND

★ Site

**TOPOGRAPHIC MAP
SITE CHARACTERIZATION AND REMEDIATION DEFERRAL
REQUEST**
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

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\NRSC\249148 - (RSC) Arcturus 18 Fed 1\7 - Figures\GIS\Figure_3_1A.mxd



LEGEND

- Vertical Delineation Point
- Horizontal Delineation Point
- Area of Concern

**INITIAL ASSESSMENT MAP
SITE CHARACTERIZATION AND REMEDIATION DEFERRAL
REQUEST**

DEVON ENERGY PRODUCTION COMPANY
ARCTURUS 18 FED 1 AND 2 BATTERY
EDDY COUNTY, NEW MEXICO

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

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

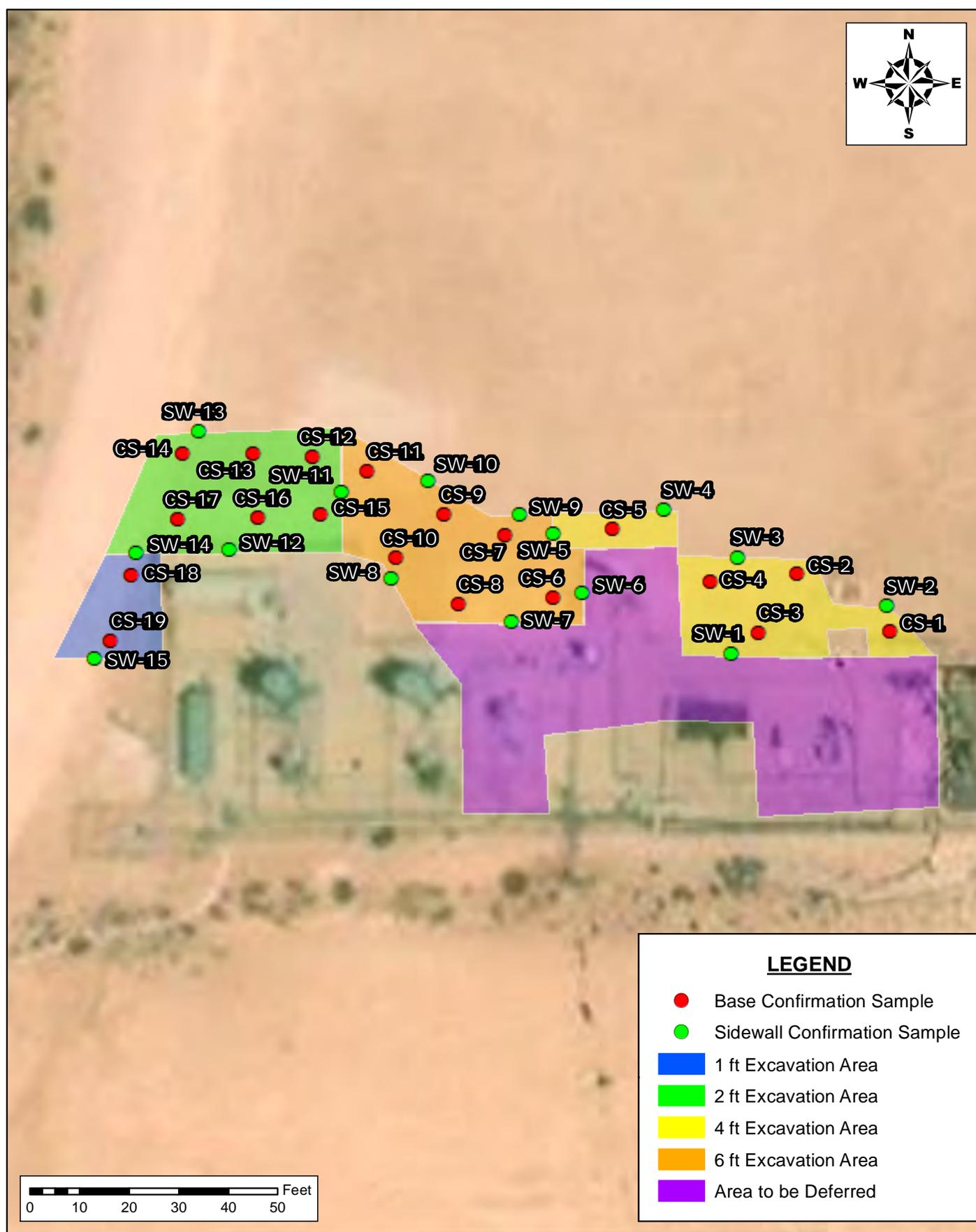
NOTES:

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

DRAWING NUMBER:
FIGURE 3

SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024\PROJECTS\DEVON\IRSC\249148 - (RSC) Arcturus 18 Fed 17 - Figures\GIS\Figure_4_CS.mxd



LEGEND

- Base Confirmation Sample
- Sidewall Confirmation Sample
- 1 ft Excavation Area
- 2 ft Excavation Area
- 4 ft Excavation Area
- 6 ft Excavation Area
- Area to be Deferred

CONFIRMATION SAMPLING MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST
 DEVON ENERGY PRODUCTION CORPORATION
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO

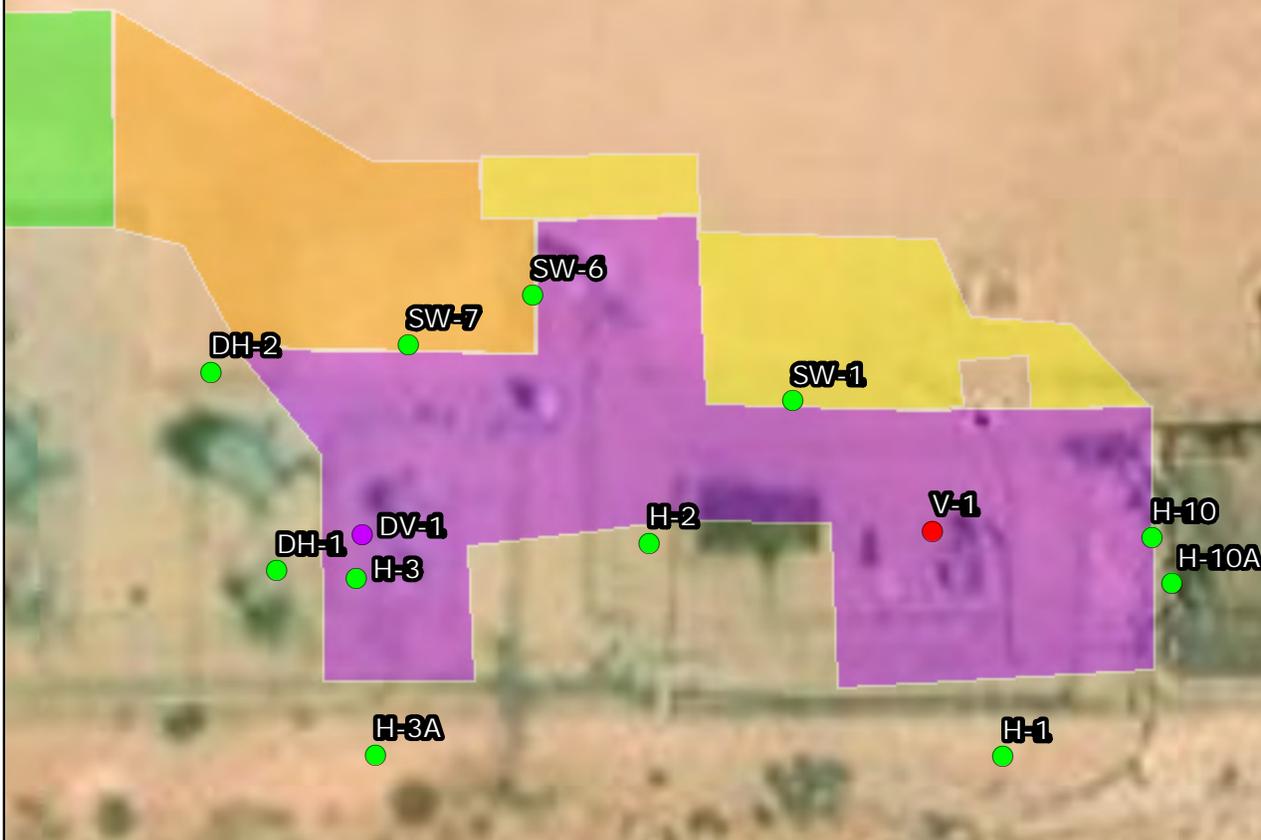
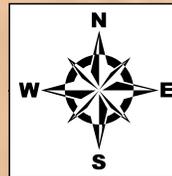
SCALE: As Shown Date: 2/3/2025 PROJECT #: 249148

NTG
 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

DRAWING NUMBER:
FIGURE 4
 SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024\PROJECTS\DEVON\RSC\249148 - (RSC) Arcturus 18 Fed 1\7 - Figures\GIS\Figure_5_deferral.mxd



LEGEND

- Vertical Delineation Point
- Vertical Deferral Sample Point
- Horizontal Delineation/ Sidewall Sample Point
- 1 ft Excavation Area
- 2 ft Excavation Area
- 4 ft Excavation Area
- 6 ft Excavation Area
- Area to be Deferred

DEFERRAL SAMPLING MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST
 DEVON ENERGY PRODUCTION CORPORATION
 ARCTURUS 18 FED 1 AND 2 BATTERY
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 2/3/2025 PROJECT #: 249148

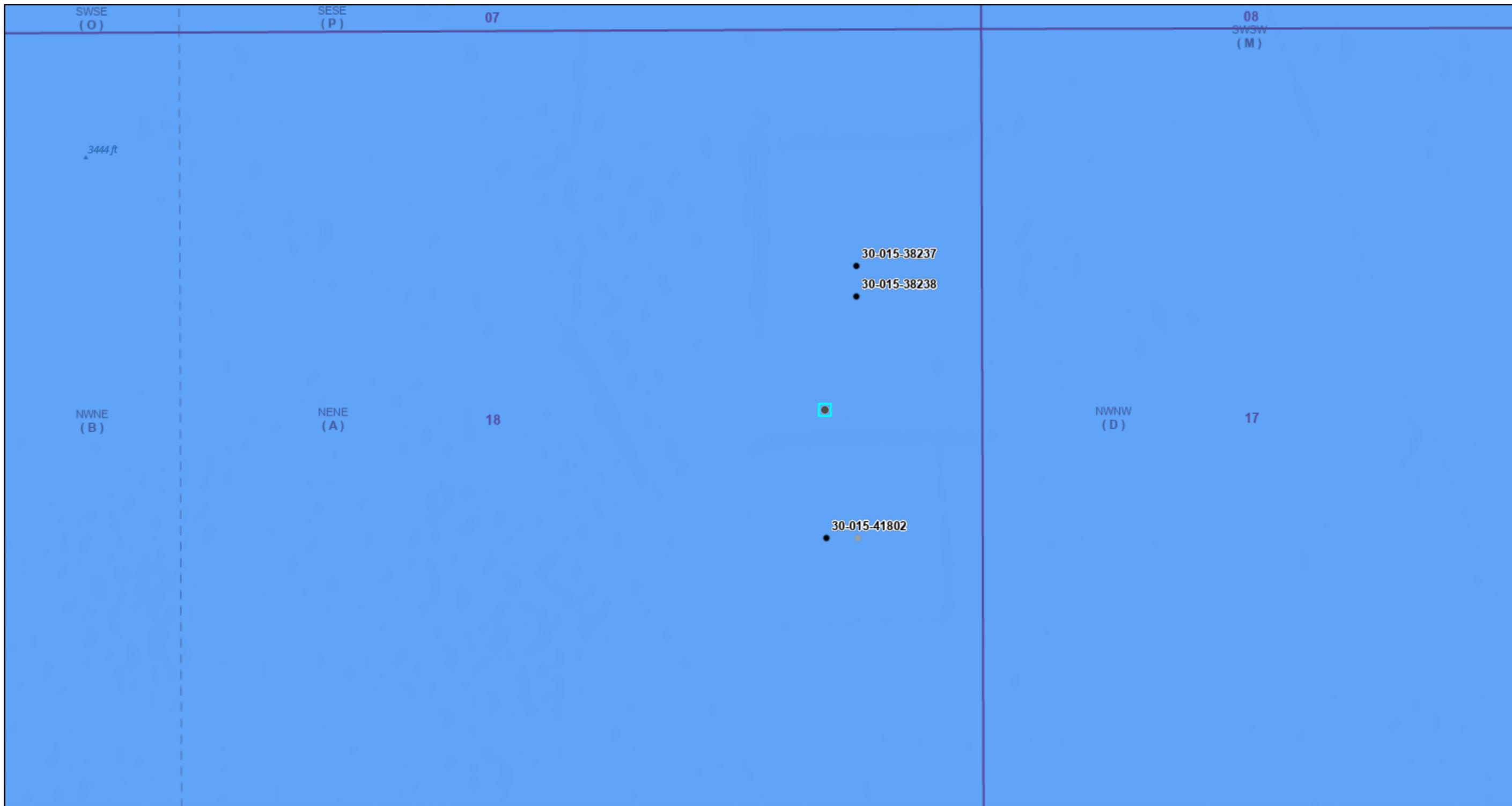
NTG
 New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenviro.com

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

DRAWING NUMBER:
FIGURE 5
 SHEET NUMBER:
1 of 1

SITE CHARACTERIZATION INFORMATION

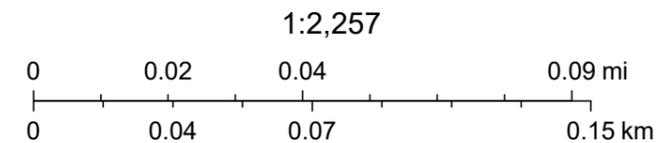
Karst Potential Map



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

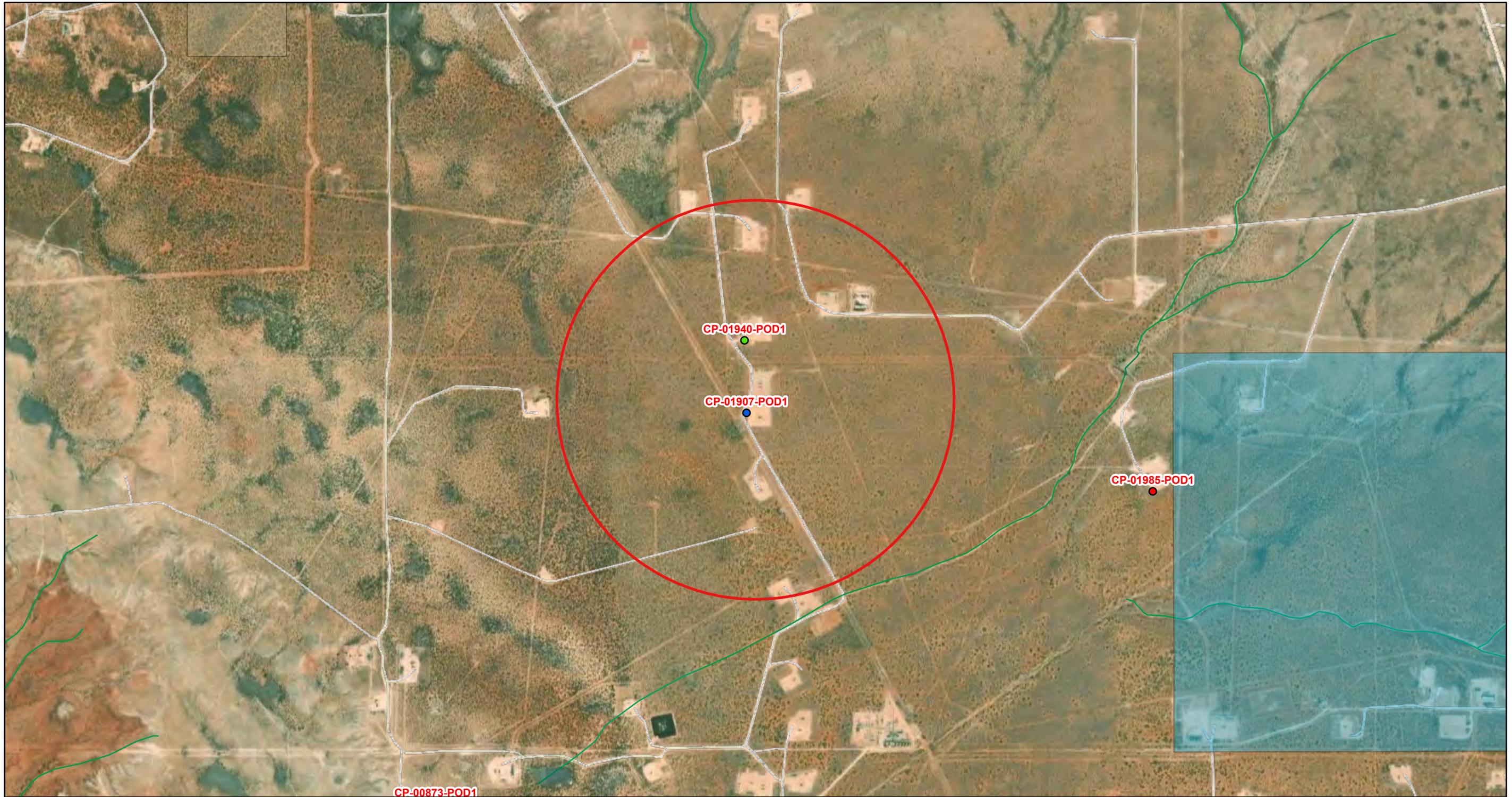
Wells - Large Scale Karst Occurrence Potential PLSS First Division

- 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,

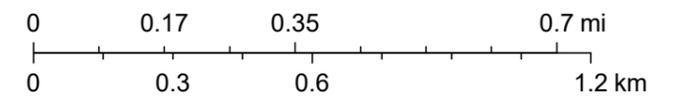
OSE POD Location Map



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

1:18,056

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



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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). CP-1907			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 39	SECONDS 55.76	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
	LONGITUDE	103	54	4.95	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE NE Sec.18 T19S R31S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 7/13/2022		DRILLING ENDED 7/13/2022	DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 7/13/2022, 7/1/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. CP-1907-POD1 TW-1	POD NO. 1	TRN NO. 726167	
LOCATION 19.31.18.422	WELL TAG ID NO. ---	PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	29	29	Sand, Medium/ Fine grained, poorly graded, Light brown	Y ✓ N	
	29	44	15	Sand, Medium/ Fine grained, poorly graded, with caliche Light brown / white	Y ✓ N	
	44	55	11	Sand, Medium/ Fine grained, poorly graded, Light brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
		_____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME

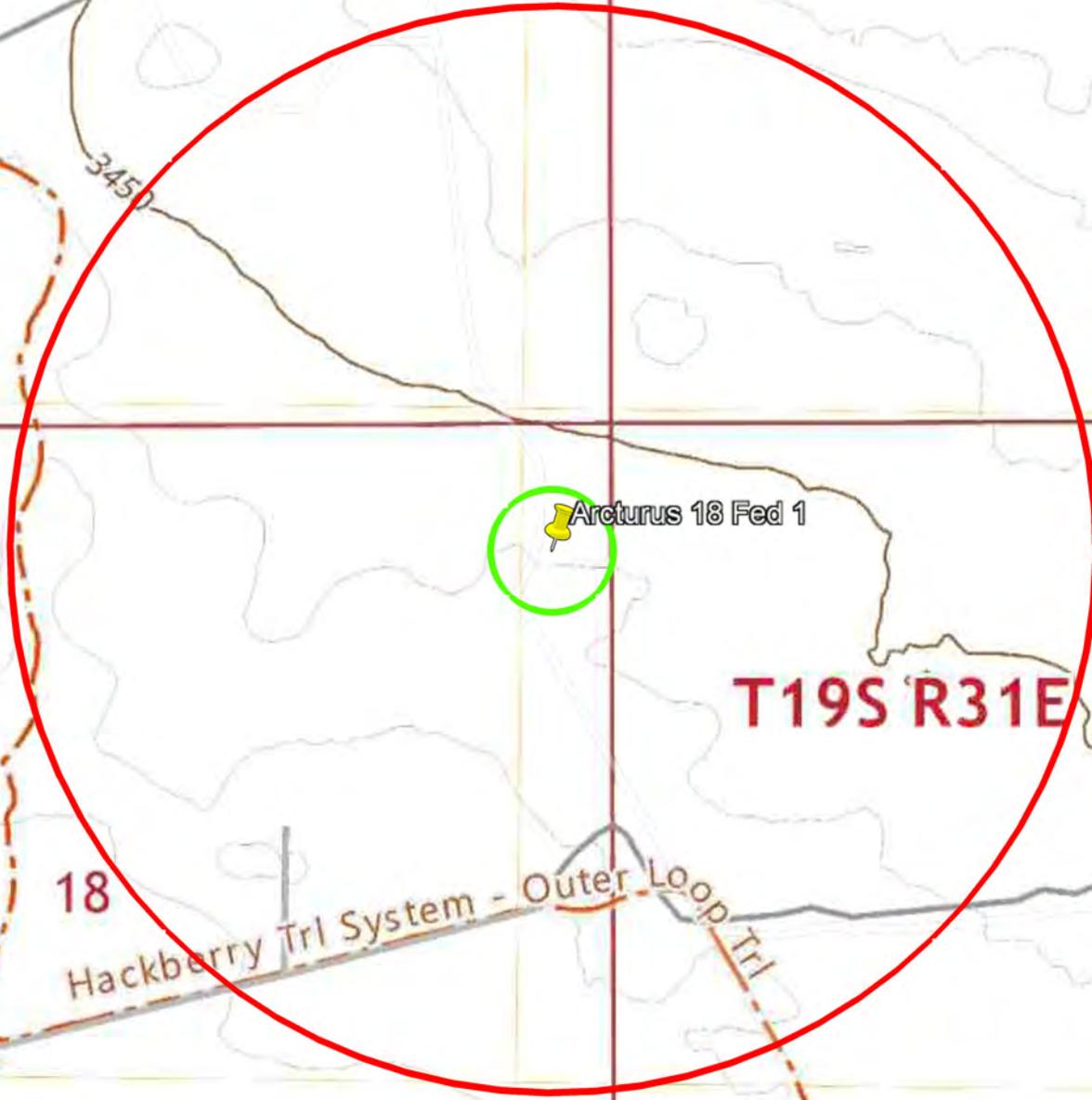
FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. <u>CP-1907-P001 TW-1</u>	POD NO. <u>1</u>	TRN NO. <u>726167</u>	
LOCATION <u>19.31.18.422</u>	WELL TAG ID NO. _____	PAGE 2 OF 2	

Significant Watercourse Map

Arcturus 18 Fed 1

Legend

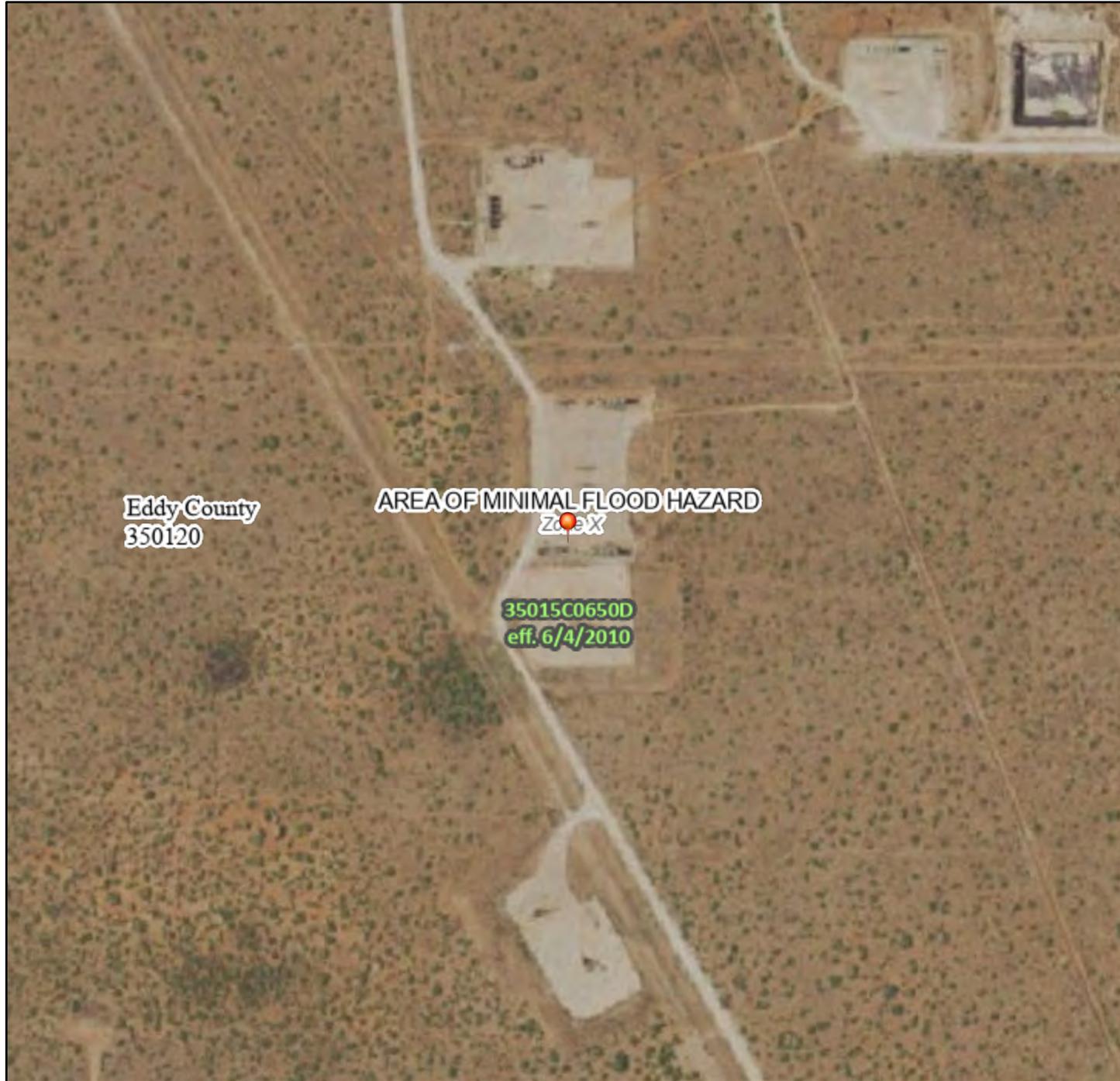
-  0.5 Mile Radius
-  300 Foot Radius
-  Arcturus 18 Fed 1



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) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
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
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

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.



1:6,000

103°53'45"W 32°39'42"N

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.



Wetlands Map



September 25, 2024

Wetlands

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

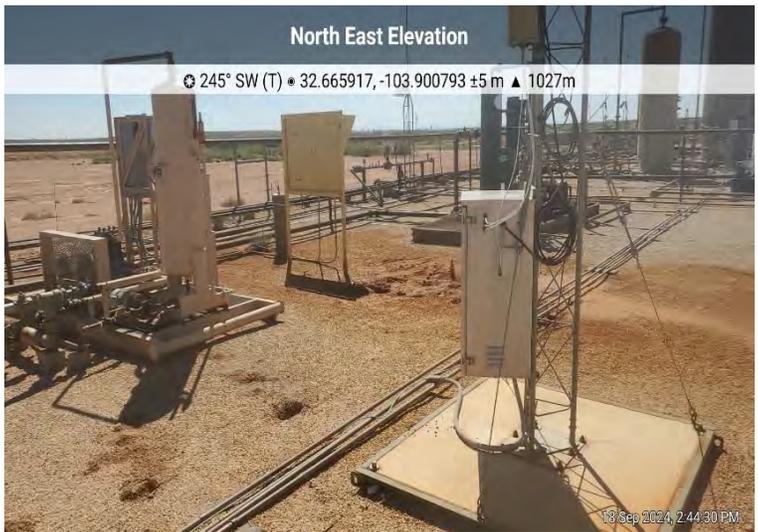


Photograph No. 2

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

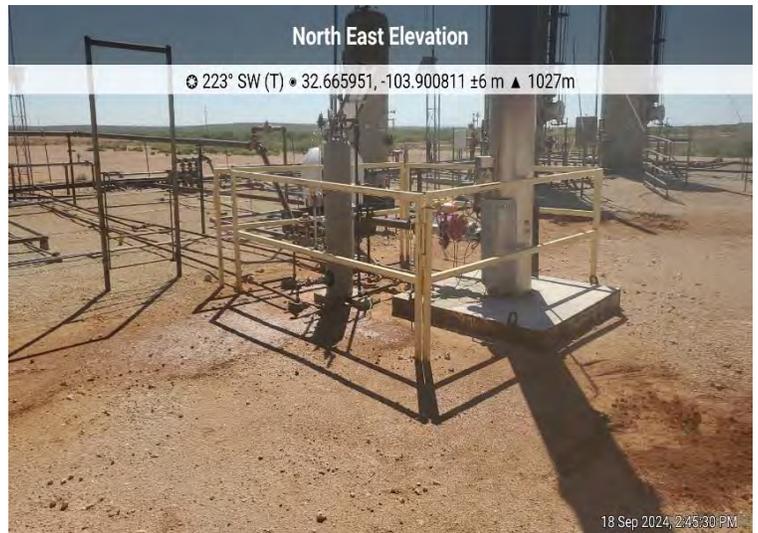


Photograph No. 3

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

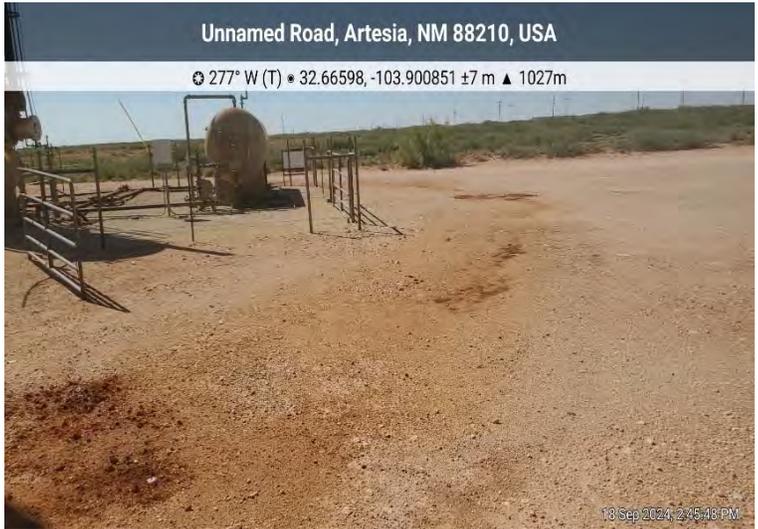


Photograph No. 5

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern

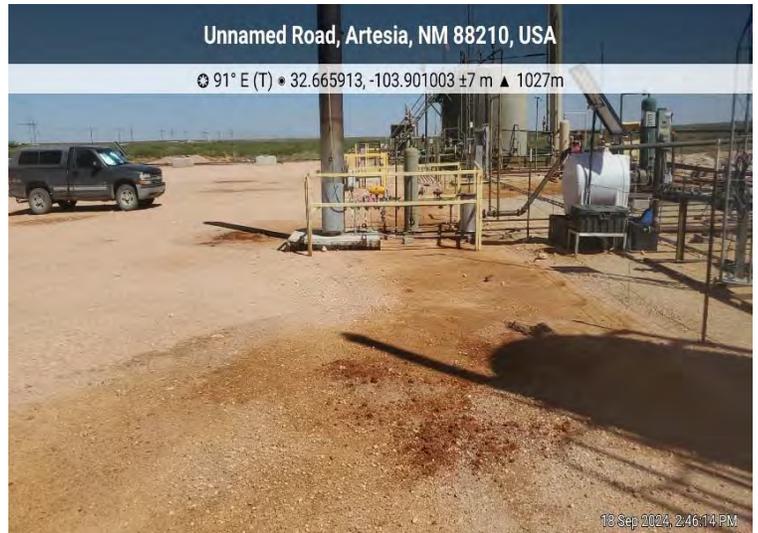


Photograph No. 6

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

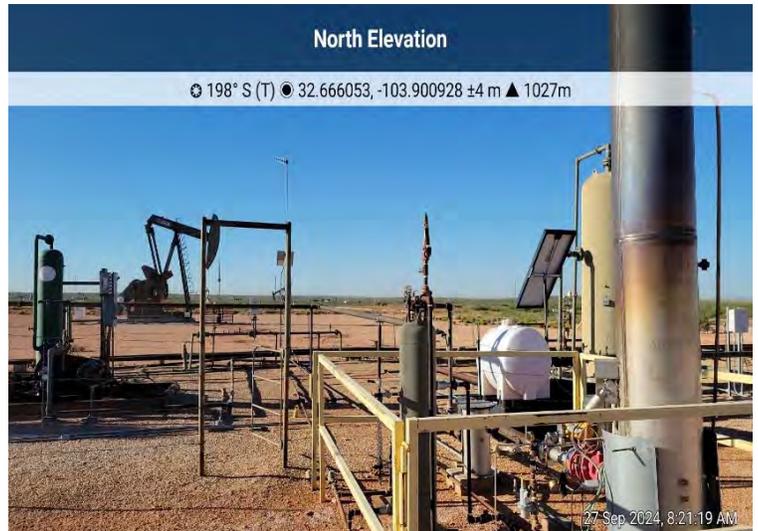


Photograph No. 9

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
Area of concern



PHOTOGRAPHIC LOG

Devon Energy Production Company, LP

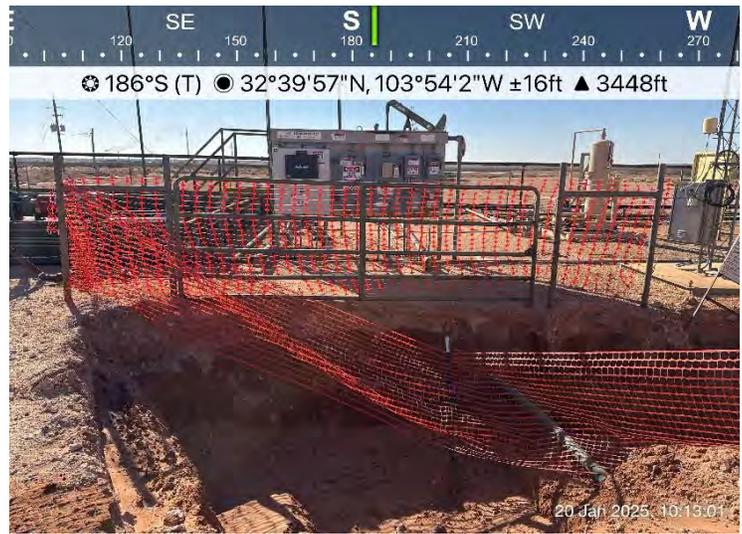
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 10

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



Photograph No. 11

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



Photograph No. 12

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



PHOTOGRAPHIC LOG

Devon Energy Production Company, LP

Arcturus 18 Fed 1 and 2 Battery

Photograph No. 13

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



Photograph No. 14

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



Photograph No. 15

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Excavation



PHOTOGRAPHIC LOG

Devon Energy Production Company, LP

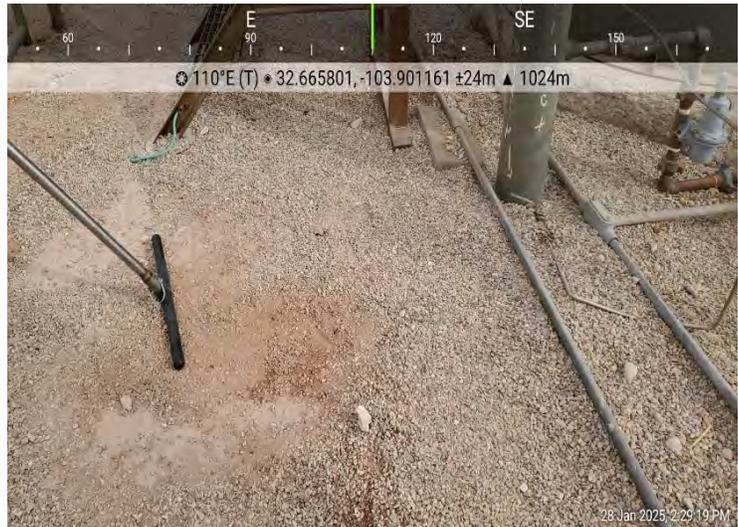
Arcturus 18 Fed 1 and 2 Battery

Photograph No. 16

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Deferral Sampling



Photograph No. 17

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of Deferral Sampling



Photograph No. 18

Facility: Arcturus 18 Fed 1 and 2 Battery

County: Eddy County, New Mexico

Description:
View of backfilled excavation



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".

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

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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 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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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 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, SM4500Cl-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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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 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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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 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
 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 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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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 - 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

Cardinal Laboratories

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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 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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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 - 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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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 - 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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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 - 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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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 - 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, SM4500Cl-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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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 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



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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 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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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 - 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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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 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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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 - 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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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 - 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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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 - 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



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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 - 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	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 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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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 - 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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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 - 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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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 - 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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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: 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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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 - 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



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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 - 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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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 - 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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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 - 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	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 - 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>VTU</u>		P.O. #: <u>2141761</u>		ANALYSIS REQUEST	
Project Manager: <u>Ethan Seburns</u>		Company:			
Address: <u>209 W McLean St</u>		Attn:			
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Address:			
Phone #: <u>505 542 2400</u> Fax #:		City:			
Project #: <u>249148</u> Project Owner: <u>Devon</u>		State: Zip:			
Project Name: <u>Arcturus 18 Fed 1</u>		Phone #:			
Project Location: <u>Lea County</u>		Fax #:			
Sampler Name: <u>Ed W McLean</u>		MATRIX			
FOR LAB USE ONLY		PRESERV			
Lab I.D.		SAMPLE			
Sample I.D.		DATE TIME			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	ANALYSIS REQUEST
<u>H245003</u>	<u>V-1</u>	<u>0-5</u>	<u>6</u>			<u>X</u>							<u>9-18</u>	<u>9:00</u>	<u>TPH</u>
	<u>V-1</u>	<u>1'</u>													<u>Chlorides</u>
	<u>V-1</u>	<u>2'</u>													<u>BTEX</u>
	<u>V-1</u>	<u>3'</u>													
	<u>V-1</u>	<u>4'</u>													
	<u>V-2</u>	<u>0-5</u>													
	<u>V-2</u>	<u>1'</u>													
	<u>V-2</u>	<u>2'</u>													
	<u>V-2</u>	<u>3'</u>													
	<u>V-2</u>	<u>4'</u>													

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

Delivered By: (Circle One) Observed Temp. °C: 5.0 Sample Condition: Intact CHECKED BY: [Signature] (Initials)

Sampler - UPS - Bus - Other: Corrected Temp. °C: 4.4 Cool Intact: Yes Yes Yes No No

Thermometer ID #140 Standard Rush Bacteria (only) Sample Condition: Intact Observed Temp. °C: 5.0 Corrected Temp. °C: 4.4

Remarks: All Results are emailed. Please provide Email address:

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>UTLVE</u> Project Manager: <u>Ethan Seburns</u> Address: <u>709 W McLean St</u> City: <u>Carlsbad</u> State: <u>NM</u> zip: <u>88220</u> Phone #: <u>505 206 5456</u> Fax #: _____ 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>Sgt V J McCall</u> FOR LAB USE ONLY		P.O. #: <u>2141701</u> Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>1145003</u>		Sample I.D.	
(G)GRAB OR (C)OMP.		# CONTAINERS	
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX	
ACID/BASE: ICE / COOL OTHER:		PRESERV.	
DATE		SAMPLING	
TIME		ANALYSIS REQUEST	
TPT Chlorides BTEX		ANALYSIS REQUEST	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcontractors, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

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

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp. °C: 50.2
 Corrected Temp. °C: 44.4
 Sample Condition: Intact
 Checked By: [Signature]
 Turnaround Time: _____
 Standard: Rush
 Bacteria (only) Sample Condition: Intact
 Corrected Temp. °C: _____



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>VTUE</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>505 546 5456</u> Fax #: _____ 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>CV Umbrell</u> FOR LAB USE ONLY		P.O. #: <u>7141701</u> Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>HASK023</u> Sample I.D.		(G)RAB OR (C)OMP. <u>6</u> # CONTAINERS <u>1</u> GROUNDWATER _____ WASTEWATER _____ SOIL <u>X</u> OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	MATRIX _____ PRESERV. _____ SAMPLING _____ DATE <u>9-18</u> TIME <u>9:50</u>
Relinquished By: _____ Date: _____ Time: _____ Received By: <u>Stocking</u> Date: <u>9-18-24</u> Time: <u>11:30</u>		Turnaround Time: _____ Standard Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition: _____ Observed Temp. °C: _____ Corrected Temp. °C: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <u>5.0</u> Corrected Temp. °C: <u>4.4</u> Sample Condition: _____ Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <u>SR</u> (Initials)		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____ Turnaround Time: _____ Standard Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition: _____ Observed Temp. °C: _____ Corrected Temp. °C: _____	

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



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

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:	09/27/2024	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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H245894

Project Manager: Ethan Sessums
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159
 Email: esessums@ntglobal.com

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

Date Woodall
 Devon Energy Production

Page 1 of 1

Work Order Comments
 Program: UST/PST PRR Brownfields RRC Upfund
 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	Turn Around	Pres. Code	ANALYSIS REQUEST						Preservative Codes	
Project Number:	249148	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush								None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN 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	
Project Location:	Eddy Co. NM	Due Date:									
Sampler's Name:	Clayton Turnas	TAT starts the day received by the lab, if received by 4:30pm									
PO #:	21411701										
SAMPLE RECEIPT											
Received In tact:	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Cooler Custody Seals:	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	140							
Sample Custody Seals:	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	-0.18							
Total Containers:		4		-0.53							
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Sample Comments		
H-3A	0-6"	9/27/2024	7:00	X		Grab	1	BTEX 8021B			
H-3B	0-6"	9/27/2024	7:03	X		Grab	1	TPH 8015M (GRO + DRO + MRO)			
H-10A	0-6"	9/27/2024	7:06	X		Grab	1	Chloride 4500			
H-10B	1-1.5'	9/27/2024	7:09	X		Grab	1				

Additional Comments:

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

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 _____

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____



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

January 22, 2025

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ARCTURUS 18 FED 1 & 2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/25 14:03.

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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 1 (H250327-01)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	48.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 2 (H250327-02)

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	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	64.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 3 (H250327-03)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	48.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 4 (H250327-04)

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	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	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	48.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 100 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 5 (H250327-05)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 6 (H250327-06)

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	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 7 (H250327-07)

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	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 8 (H250327-08)

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	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 9 (H250327-09)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 10 (H250327-10)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 11 (H250327-11)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 12 (H250327-12)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 13 (H250327-13)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 14 (H250327-14)

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	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 15 (H250327-15)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 16 (H250327-16)

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	01/21/2025	ND	2.08	104	2.00	2.27		
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 17 (H250327-17)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 18 (H250327-18)

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	01/21/2025	ND	2.08	104	2.00	2.27	
Toluene*	<0.050	0.050	01/21/2025	ND	2.14	107	2.00	3.49	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	2.27	113	2.00	3.41	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	6.93	116	6.00	2.40	
Total BTEX	<0.300	0.300	01/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	204	102	200	2.05	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	203	102	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: CS - 19 (H250327-19)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 1 (H250327-20)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 2 (H250327-21)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 3 (H250327-22)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 4 (H250327-23)

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	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 5 (H250327-24)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/21/2025	ND	432	108	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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 6 (H250327-25)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	96.0	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 7 (H250327-26)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	64.0	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 8 (H250327-27)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	32.0	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 9 (H250327-28)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	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	144	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 10 (H250327-29)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	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	96.0	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 11 (H250327-30)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	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	80.0	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 12 (H250327-31)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	48.0	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 13 (H250327-32)

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	01/21/2025	ND	1.94	97.0	2.00	1.52	
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68	
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74	
Total BTEX	<0.300	0.300	01/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	48.0	16.0	01/21/2025	ND	416	104	400	3.77	

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	01/21/2025	ND	208	104	200	1.33	
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613	
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 14 (H250327-33)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	112	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 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:	01/20/2025	Sampling Date:	01/20/2025
Reported:	01/22/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1 & 2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON - EDDY COUNTY, NM		

Sample ID: SW - 15 (H250327-34)

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	01/21/2025	ND	1.94	97.0	2.00	1.52		
Toluene*	<0.050	0.050	01/21/2025	ND	2.03	102	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/21/2025	ND	1.95	97.6	2.00	1.68		
Total Xylenes*	<0.150	0.150	01/21/2025	ND	5.72	95.3	6.00	1.74		
Total BTEX	<0.300	0.300	01/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	48.0	16.0	01/21/2025	ND	416	104	400	3.77		

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	01/21/2025	ND	208	104	200	1.33		
DRO >C10-C28*	<10.0	10.0	01/21/2025	ND	206	103	200	0.613		
EXT DRO >C28-C36	<10.0	10.0	01/21/2025	ND						

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 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.
- 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>NTGE</u>		P.O. #: <u>2141701</u>	
Project Manager: <u>Ethan Reams</u>		Company: <u>Bevon</u>	
Address: <u>209 W. McKay St</u>		Attn: <u>Jim Raley</u>	
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Address: _____	
Phone #: <u>432-201-2154</u> Fax #: _____		City: _____	
Project #: <u>2141148</u> Project Owner: <u>Bevon</u>		State: _____ Zip: _____	
Project Name: <u>Arbhus K Fed 1 & 2 Baiting</u>		Phone #: _____	
Project Location: <u>Eddy Co, NM</u>		Fax #: _____	
Sampler Name: <u>Kenny Huan</u>		MATRIX:	
FOR LAB USE ONLY		PRESERV:	
Lab I.D.		SAMPLES:	
Sample I.D.		DATE TIME	
(G)RAB OR (C)OMP.		DATE TIME	
# CONTAINERS		DATE TIME	
GROUNDWATER		DATE TIME	
WASTEWATER		DATE TIME	
SOIL		DATE TIME	
OIL		DATE TIME	
SLUDGE		DATE TIME	
OTHER:		DATE TIME	
ACID/BASE:		DATE TIME	
ICE / COOL		DATE TIME	
OTHER:		DATE TIME	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE TIME	ANALYSIS REQUEST
<u>11050321</u>	<u>CS-1</u>	<u>C</u>	<u>1</u>	<u>X</u>	<u>✓</u>	<u>✓</u>	<u>1/20/25</u>	<u>BDEX</u>
<u>2</u>	<u>CS-2</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	<u>TPH</u>
<u>3</u>	<u>CS-3</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	<u>Chloride</u>
<u>4</u>	<u>CS-4</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	
<u>5</u>	<u>CS-5</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	
<u>6</u>	<u>CS-6</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	
<u>7</u>	<u>CS-7</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	
<u>8</u>	<u>CS-8</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	
<u>9</u>	<u>CS-9</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	
<u>10</u>	<u>CS-10</u>	<u>1</u>	<u>1</u>				<u>1/20/25</u>	

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Relinquished By: _____ Date: 1/20/25 Time: _____
 Received By: Bevon Date: 1/20/25 Time: _____

Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One) Observed Temp. °C: 08 Sample Condition: Cool Intact
 Corrected Temp. °C: 0.2 Cool Intact
 Sampler - UPS - Bus - Other: Yes No Yes No

Turnaround Time: _____ Standard Rush
 Thermometer ID #440 Bacteria (only) Sample Condition: Cool Intact
 Correction Factor -0.8°C Yes No Yes No
 Corrected Temp. °C: _____

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

REMARKS: _____

FOR CARDINAL LABS ONLY



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>UTG</u>		BILL TO		P.O. #: <u>21411701</u>		ANALYSIS REQUEST	
Project Manager: <u>Ethan Searns</u>		Company: <u>Bevon</u>		Attn: <u>Jim Paley</u>			
Address: <u>209 W Mickey St</u>		State: <u>NM</u>		City: <u>Carlsbad</u>		Zip: <u>88220</u>	
City: <u>Carlsbad</u>		Project Owner: <u>Bevon</u>		State: _____		Zip: _____	
Phone #: <u>432-201-2159</u>		Project Location: <u>Archives 18 Rd I & 2 Bldg</u>		City: _____		State: _____	
Project #: <u>249148</u>		Project Name: <u>Eddy Co, New Mexico</u>		Phone #: _____		Fax #: _____	
Project Location: <u>Eddy Co, New Mexico</u>		Sampler Name: <u>Vanny Han</u>		PRESERV: <u>✓</u>		SAMPLING: _____	
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		DATE		TIME	
Lab I.D.		Sample I.D.		# CONTAINERS		MATRIX	
11253327		11253327		GROUNDWATER		WASTEWATER	
11		05-11		SOIL		OIL	
12		05-12		SLUDGE		OTHER:	
13		05-13		ACID/BASE:		ICE / COOL	
14		05-14		OTHER:		DATE	
15		05-15		DATE		TIME	
16		05-16		DATE		TIME	
17		05-17		DATE		TIME	
18		05-18		DATE		TIME	
19		05-19		DATE		TIME	
20		05-20		DATE		TIME	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 1/20/25 Time: 14:03

Received By: [Signature] Date: 1/20/25 Time: 14:03

Delivered By: (Circle One) Observed Temp. °C: 0.8 Corrected Temp. °C: 0.2

Sampler - UPS - Bus - Other: _____

Turnaround Time: _____ Standard Rush Bacteria (only) Sample Condition: Cool Intact Yes No Yes No Yes No Yes No

Thermometer ID #40 Correction Factor -0.6°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

Company Name: <u>NTGE</u>		P.O. #: <u>31411201</u>		ANALYSIS REQUEST																																																																																															
Project Manager: <u>Ethan Sessions</u>		Company: <u>Perun</u>																																																																																																	
Address: <u>209 W. McKay St</u>		Attn: <u>Jim Ralvey</u>																																																																																																	
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88300</u>		Address:																																																																																																	
Phone #: <u>432-701-2154</u> Fax #: _____		City: _____																																																																																																	
Project #: <u>214148</u> Project Owner: <u>Perun</u>		State: _____ Zip: _____																																																																																																	
Project Name: <u>Arhaus 18 Fed 1 & 2 Bakery</u>		Phone #: _____																																																																																																	
Project Location: <u>Exit Log New Mexico</u>		Fax #: _____																																																																																																	
Sampler Name: <u>Venny Hays</u>		FOR LAB USE ONLY																																																																																																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.																																																																																															
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PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		MATRIX		PRESERV		SAMPLING																																																																																													
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101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: UTEE Project Manager: Ethan Reisms Address: 809 W. McKinley St City: Carlsbad State: NM Zip: 88220 Phone #: 432-201-2154 Fax #: Project #: 249148 Project Owner: Devon Project Name: Archivos 18 Feb 13 & 2 Bathy Project Location: Eddy Co, New Mexico Sampler Name: Lenny Her <small>FOR LAB USE ONLY</small>		BILL TO P.O. #: 21411701 Company: Devon Attn: Jim Baley Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. H850327 SW-12 SW-13 SW-14 SW 15	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	MATRIX SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	PRESERV DATE TIME	SAMPLED DATE TIME	BTEX TPH Chloride
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By: [Signature] Date: 1/20/25 Time: 1403		Received By: [Signature] Date: 1/20/25 Time: 1403		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
REMARKS:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 8.8 Corrected Temp. °C: 8.8		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #40 Correction Factor -0.8°C Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					

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



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February 03, 2025

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 01/28/25 15:57.

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:	01/28/2025	Sampling Date:	01/28/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON -EDDY COUNTY, NM		

Sample ID: DV - 1 0-6" (H250513-01)

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	117	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	65.1	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	01/28/2025	Sampling Date:	01/28/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON -EDDY COUNTY, NM		

Sample ID: DV - 1 1-1.5' (H250513-02)

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	<16.0	16.0	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	156	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	92.1	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	01/28/2025	Sampling Date:	01/28/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON -EDDY COUNTY, NM		

Sample ID: DV - 1 2-2.5' (H250513-03)

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	16.0	16.0	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 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:	01/28/2025	Sampling Date:	01/28/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON -EDDY COUNTY, NM		

Sample ID: DV - 1 3-3.5' (H250513-04)

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	16.0	16.0	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	01/28/2025	Sampling Date:	01/28/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON -EDDY COUNTY, NM		

Sample ID: DV - 1 4-4.5' (H250513-05)

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	16.0	16.0	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	01/28/2025	Sampling Date:	01/28/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON -EDDY COUNTY, NM		

Sample ID: DH - 1 0-6" (H250513-06)

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	32.0	16.0	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	191	95.6	200	3.56	
DRO >C10-C28*	25.5	10.0	01/30/2025	ND	194	97.1	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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:	01/28/2025	Sampling Date:	01/28/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 1	Sampling Condition:	Cool & Intact
Project Number:	249148	Sample Received By:	Alyssa Parras
Project Location:	DEVON -EDDY COUNTY, NM		

Sample ID: DH - 2 0-6" (H250513-07)

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	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEX	<0.300	0.300	01/30/2025	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	32.0	16.0	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	191	95.6	200	3.56		
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	194	97.1	200	4.43		
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTFE		P.O. #: 2141701		BILL TO		ANALYSIS REQUEST	
Project Manager: Ethan Keene		Company: Devon					
Address: 201 W McKay St		Attn: Jim Rakey					
City: Carlsbad		Address:					
Phone #: 532-701-2159		State: NM					
Fax #:		City:					
Project #: 24148		State:					
Project Name: Arcturus 18 Feb 1		Phone #:					
Project Location: Eddy Co, NM		Zip:					
Sampler Name: Kenny Hung		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
#250513		DV-1		G 1		GROUNDWATER	
1		0-6"		1		WASTEWATER	
2		1-1.5'		1		SOIL	
3		2-2.5'		1		OIL	
4		3-3.5'		1		SLUDGE	
5		4-4.5'		1		OTHER:	
6		DH-1		1		ACID/BASE:	
7		DH-2		1		ICE / COOL	
8		0-6"		1		OTHER:	
DATE: 1/28/25		DATE: 1/28/25		DATE:		TIME:	
TIME: 1:57		RECEIVED BY: ADP		DATE:		TIME:	
DELIVERED BY: (Circle One)		OBSERVED TEMP. °C		SAMPLE CONDITION		CHECKED BY:	
UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)	
Turnaround Time:		Thermometer ID #140		Bacteria (only)		Sample Condition	
Correction Factor -0.8°C		Standard RUSH		Cool Intact		Observed Temp. °C	
Add'l Phone #:		Corrected Temp. °C		Yes No		Corrected Temp. °C	
Verbal Result:		All Results are emailed. Please provide Email address:		Yes No		Corrected Temp. °C	
REMARKS:		Turnaround Time:		Yes No		Corrected Temp. °C	

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

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Phone: (505) 629-6116

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

QUESTIONS

Action 430167

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2426141700
Incident Name	NAPP2426141700 ARCTURUS 18 FED 1 & 2 BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request 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.

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QUESTIONS, Page 2

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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>

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.

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: 02/10/2025
--	--

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QUESTIONS, Page 3

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization
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.

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
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.

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

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.

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

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. 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 4

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Impacted area is abutted to central tank batteries, and under multiple production flow lines and one heater treater
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2921
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	432
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	ARCTURUS 18 FED 1&2 BATTERY [fAPP2129453521]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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>	
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@dvni.com Date: 02/10/2025

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 6

Action 430167

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	421280
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/20/2025
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	3400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 430167

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 430167
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Devon's deferral requests final remediation for (Incident Number NAPP2426141700) until final reclamation of the well pad or major construction, whichever comes first. NTG and Devon do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area in purple on figure 5 that is limited to the area in and around flowlines, tank battery, heater treater, and pump unit, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record. The release will remain open in OCD database files and reflect an open environmental issue.	2/17/2025