

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nRM2028946301
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party CHISHOLM ENERGY OPERATING, LLC	OGRID 372137
Contact Name TIM GREEN	Contact Telephone 432-413-9747
Contact email tgreen@chisholmenergy.com	Incident # (assigned by OCD)
Contact mailing address 801 CHERRY STREET, SUITE 1200-UNIT 20, FORT WORTH, TX 76102	

### Location of Release Source

Latitude 32.384674 Longitude -103.394214  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name ANTLER 17 STATE 1BS 2H	Site Type WELL SITE LOCATION
Date Release Discovered 10/05/2020	API# (if applicable) 30-025-44142

Unit Letter	Section	Township	Range	County
M	17	22S	35E	LEA

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 10
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 35	Volume Recovered (bbls) 30
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

CBLE THAT HANGS DOWN FOR ROD ROTATOR GOT HOOKED ON A 1" NIPPLE ON THE PUMPING TEE AND BROKE IT OFF ALLOWING FLUIDS BEING PUMPED TO SURFACE TO ESCAPE THE WELLHEAD  
LENGTH OF SPILL IS 55' X 46' X 2" = 421 cuft @ 60% POROSITY = 45 BBLS

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  AMOUNT SPILLED WAS MORE THAN 25 BBLs.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  YES, EMAIL NOTIFICATION WAS SENT BY JENNIFER ELROD TO PAUL KAUTZ AT OCD HOBBS OFFICE	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: JENNIFER ELROD	Title: SR. REGULATORY ANALYST
Signature: <u>Jennifer Elrod</u>	Date: 10/13/2020
email: jelrod@chisholmenergy.com	Telephone: 817-953-3728
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	

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## Site Assessment/Characterization

*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?	Unknown _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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Incident ID	nRM2028946301
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Facility ID	
Application ID	

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.

Printed Name: Rebecca Haskell Title: Senior Project Manager  
Signature: Rebecca Haskell Date: 10/23/2023  
email: bhaskell@ntglobal.com Telephone: 432-766-1918

**OCD Only**

Received by: Shelly Wells Date: 10/24/2023

Incident ID	nRM2028946301
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Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rebecca Haskell Title: Senior Project Manager  
Signature: Rebecca Haskell Date: 10/23/2023  
email: bhaskell@ntglobal.com Telephone: 432-766-1918

**OCD Only**

Received by: Shelly Wells Date: 10/24/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Scott Rodgers Date: 12/28/2023  
Printed Name: Scott Rodgers Title: Environmental Specialist Adv.



701 Tradewinds Blvd  
Midland, Texas 79707  
Tel. 432-766-1918  
www.ntgenvironmental.com

October 23, 2023

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 1  
1625 N French Drive  
Hobbs, New Mexico 88210

**Re: Site Characterization and Closure Request  
Antler State 17 1BS #002H  
Earthstone Operating, LLC  
Site Location: Unit M, S17, T22S, R35E  
(Lat 32.384674°, Long -103.394214°)  
Lea County, New Mexico  
Incident ID: nRM2028946301**

## 1. Introduction

On behalf of Earthstone Operating, LLC (Earthstone), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure Report for the NMOCD District 1 Office in Hobbs, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Antler State 17 1BS #002H (Site). The Site is located within Unit Letter M, Section 17 of Township 22 South and Range 35 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.384674° N latitude and -103.394214° W Longitude. The release occurred on land owned by the State of New Mexico. Figure 1 depicts the site location with respect to the nearest town and Figure 2 shows the topographic map of the site.

## 2. Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release occurred on October 5, 2020, the result of a 1" nipple tee on the well head breaking off. Approximately ten (10) barrels (bbls) of crude oil and approximately thirty-five (35) barrels (bbls) of produced water were released. Approximately 10 bbls of crude oil and 30 bbls of the produced water were recovered for a net loss of five (5) bbls of produced water. Upon discovery, the well was shut-in, and area secured with free liquids removed utilizing a vacuum truck. The release footprint is shown on Figure 3. The Release Notification Site Assessment/Characterization, and Closure portions of Form C-141 for incident number nRM2028946301 are attached to the front of this report.

## 3. Groundwater and Site Characterization

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

Mr. Mike Bratcher  
October 23, 2023  
Page 2 of 4

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, no groundwater well exists within a ½-mile radius of the site. The nearest water well is 0.66 miles south-southwest of the site and was drilled in 1936 with groundwater at approximately 78 feet below ground surface (ft bgs). According to the Karst map, the site is located within a low Karst area. The Site characterization documentation (NM Oil and Gas Map, Points of Diversion, Significant Watercourse Map, Wetlands Map, and FEMA Map) is provided as Attachment A.

**General Site Characterization and Groundwater:**

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

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

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+DRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

## 4. Soil Delineation Activities and Analytical Results

On July 14, 2023, NTGE was on-site to conduct an initial delineation assessment whereby three (3) vertical sample points (L-1 through L-3) were installed to delineate the area. The samples were collected from depths ranging from the surface to a maximum of two and a half (2.5) ft bgs with a geotechnical hand auger. The samples were submitted to Eurofins Laboratory (Eurofins) of Midland, Texas for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015 modified, and chloride by EPA Method 300.0. Analysis indicated that L-2 and L-3 exhibited TPH and chloride concentrations over Table 1 Closure Criteria.

On August 3, 2023, in order to complete delineation at the site, NTGE was on-site to install three (3) horizontal sampling points (H-1 through H-3). Samples were collected at depths ranging from surface to 3.0 ft bgs and submitted to Cardinal Laboratories (Cardinal) of Hobbs, New Mexico for analysis of BTEX, TPH, and chlorides. Analytical concentrations for the samples were below the Table 1 standards for all analytes. Figure 3 depicts the initial delineation sample locations, with analytical results provided on Table 1, Summary of Soil Analytical Data – Delineation Samples, Laboratory reports are included in Appendix D.



Mr. Mike Bratcher  
October 23, 2023  
Page 3 of 4

## 5. Remedial Action Activities and Confirmation Sampling

Based on the initial assessment results, American Safety Services, Inc (ASSI), proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. All samples were collected based on one (1) composite sample per 200 square feet (ft<sup>2</sup>) of surface area for both bottom and sidewalls and submitted to Cardinal for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, or chlorides by EPA Method SM4500Cl-B.

Upon completion of initial excavation activities, NTGE was on site September 12, 2023, to collect three (3) base composite samples (CS-1 through CS-3) and five (5) sidewall samples (SW-1 through SW-5) from 0 to 3 ft bgs. The samples were submitted to Cardinal for analysis. All samples exhibited benzene, BTEX, TPH and chloride concentrations below Table 1 Closure Criteria. See Table 2 for the analytical results and Figure 4 for the confirmation sampling locations. Laboratory Analytical Reports are provided in Appendix D. A photographic log is provided as Appendix B and Confirmation Sampling Notifications are provided as Appendix C.

## 6. Soils Disposition and Backfill Activities

Between September 22 and September 25, 2023, approximately 52.51 tons of impacted material was transported offsite for disposal at Lea Land, LLC located in Carlsbad, New Mexico. Upon completion of the excavation, the site was backfilled with like-sourced materials and brought up to surface grade. Manifests are available upon request and aren't included in this report due to the size of the file.

## 7. Closure Request

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with the NMOCD regulatory standards. Based on the supporting documentation provided in this report, NTGE, on behalf of Earthstone respectfully requests closure for nRM2028946301. The Release Notification, Site Assessment/Characterization, and closure portions of the NMOCD form C-141 are included at the front of this report.

If you have any questions regarding this report or need additional information, please contact us at 432-685-3898.

Sincerely,  
**NTG Environmental**



Jeff Kindley, P.G



Mr. Mike Bratcher  
October 23, 2023  
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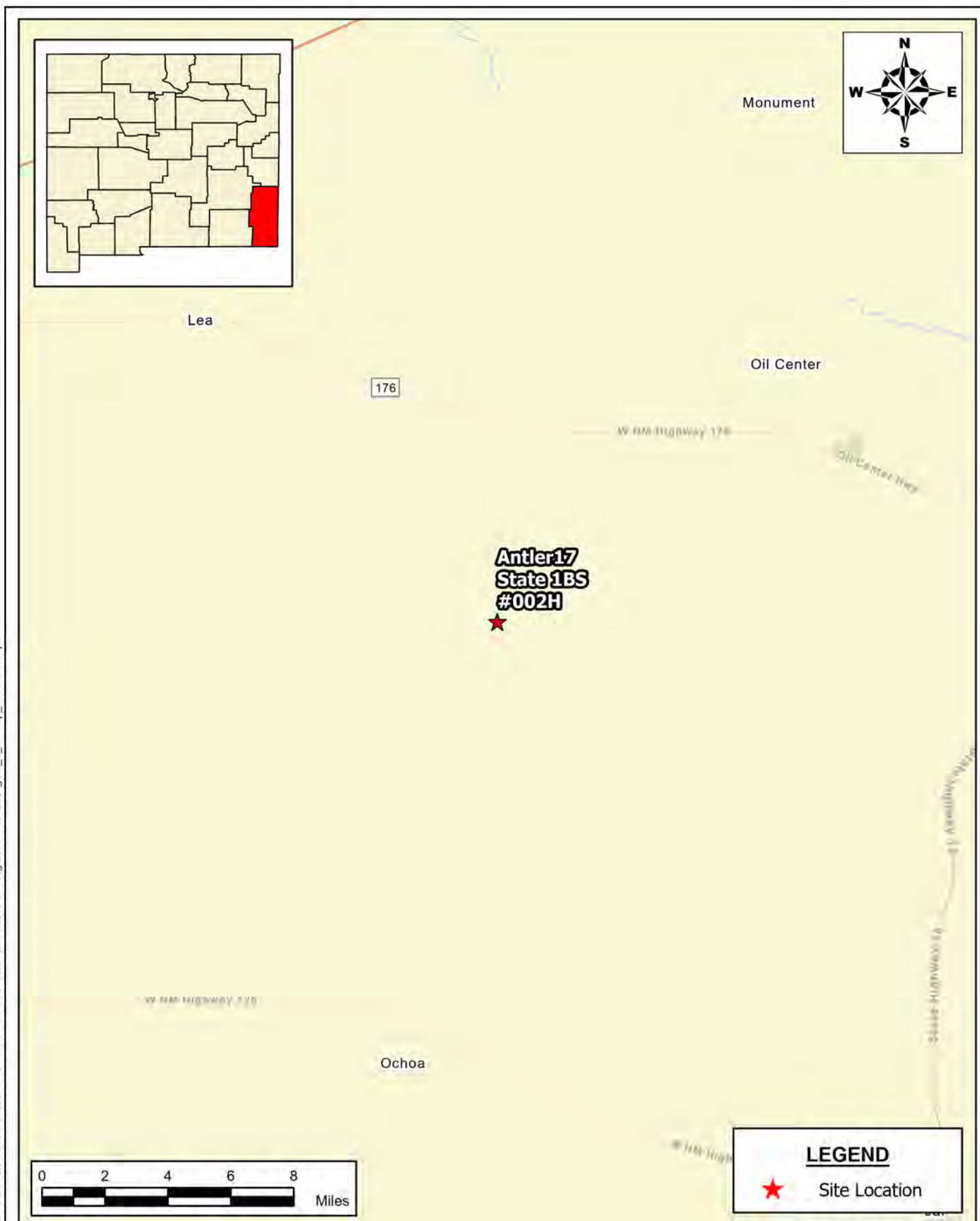
Senior Project Manager/Geologist

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Delineation Sample Location Map
- Figure 4 – Confirmation Sample Location Map
- Table 1 Summary of Soil Analytical Data – Delineation Samples
- Table 2 Summary of Soil Analytical Data – Confirmation Samples
- Appendix A – Site Characterization Documentation
- Appendix B – Photographic Log
- Appendix C – Confirmation Sampling Notifications
- Appendix D – Laboratory Reports and Chain-of-Custody Documentation

## **FIGURES**

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**SITE LOCATION MAP**  
**CLOSURE REPORT**  
EARTHSTONE OPERATING, LLC  
ANTLER 17 STATE 1BS #002H  
LEA COUNTY, NEW MEXICO  
32.384674°, -103.394214°

SCALE: As Shown	Date: 10/13/2023	PROJECT #: 237580
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**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: [www.ntglobal.com](http://www.ntglobal.com)

NOTES:

1. Base Image: ESRI Maps & Data 2013  
2. Map Projection: NAD 1983 UTM Zone 13N

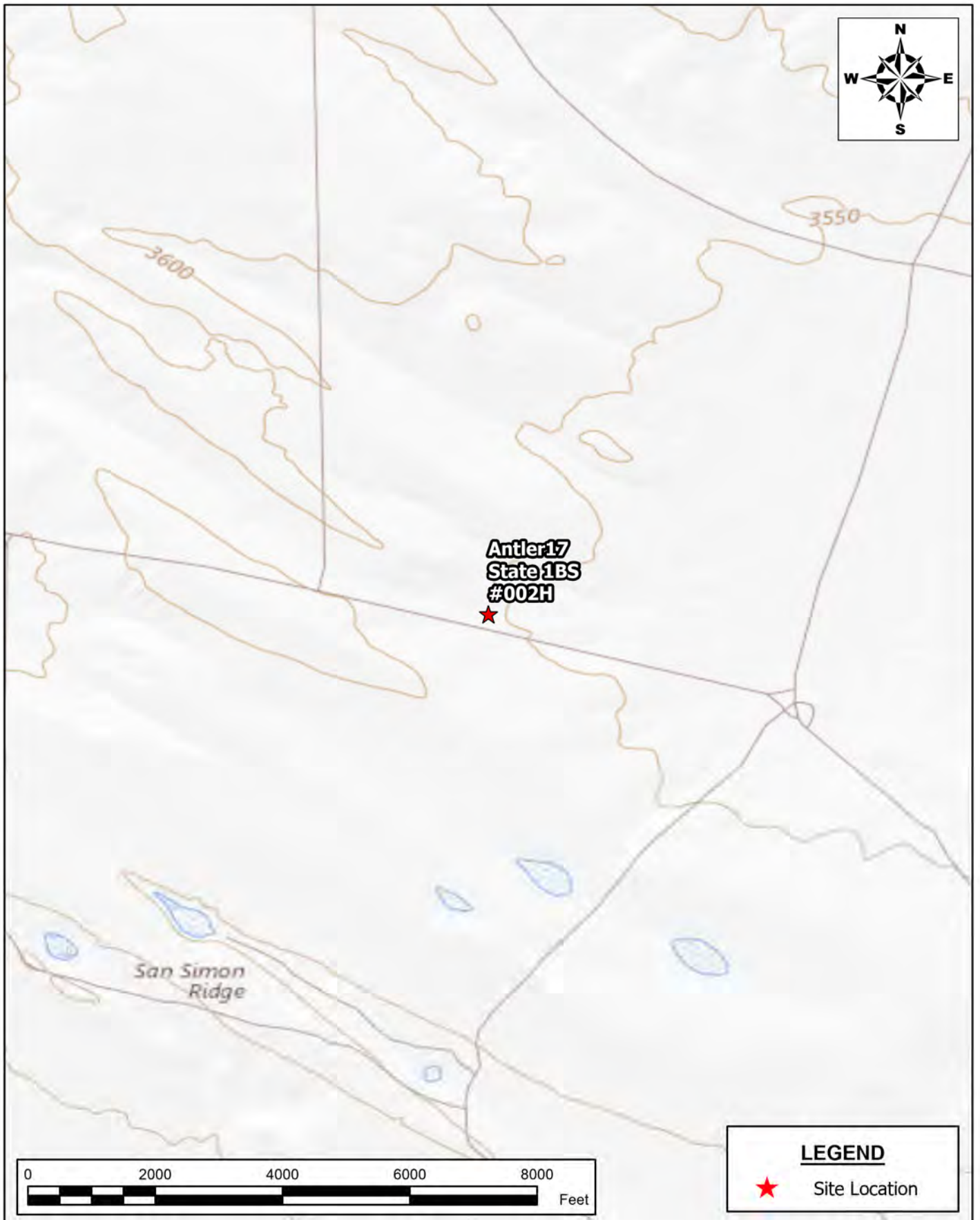
DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

1 of 1

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**TOPOGRAPHIC MAP  
CLOSURE REPORT**  
EARTHSTONE OPERATING, LLC  
ANTLER 17 STATE 1BS #002H  
LEA COUNTY, NEW MEXICO  
32.384674°, -103.394214°

SCALE: As Shown    Date: 10/13/2023    PROJECT #: 237580

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



**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

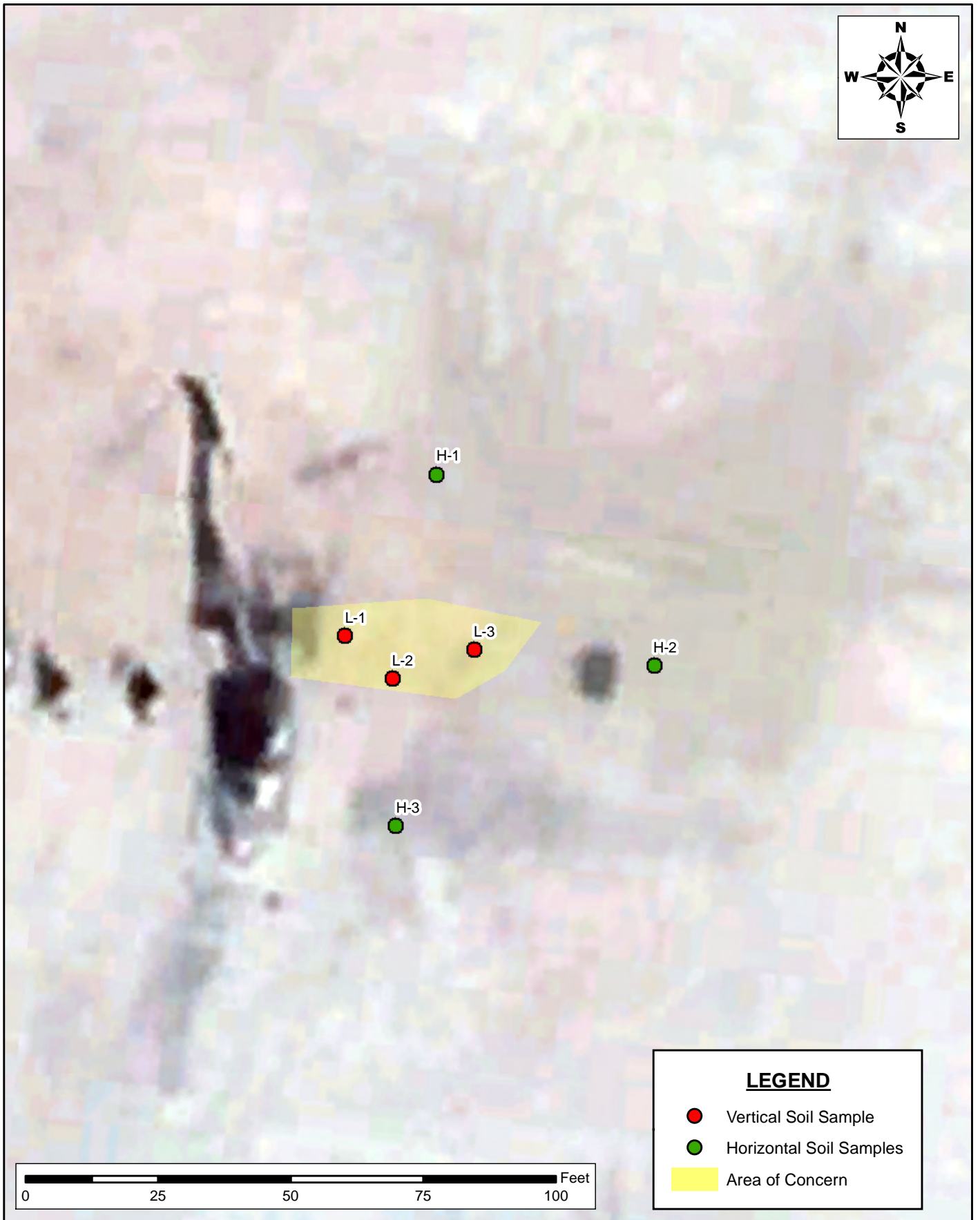
**FIGURE 2**

SHEET NUMBER:

**1 of 1**



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**LEGEND**

- Vertical Soil Sample
- Horizontal Soil Samples
- Area of Concern

**DELINERATION MAP  
CLOSURE REPORT**  
EARTHSTONE OPERATION, LLC  
ANTLER 17 STATE 1BS #002H  
LEA COUNTY NEW MEXICO  
32.384674° -103.394214°



**New Tech Global Environmental, LLC**  
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**NOTES:**

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**

SCALE: AS SHOWN    DATE: 10/23/2023    PROJECT #: 237580

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**CONFIRMATION MAP  
CLOSURE REPORT**  
 EARTHSTONE OPERATION, LLC  
 ANTLER 17 STATE 1BS #002H  
 LEA COUNTY NEW MEXICO  
 32.384674° -103.394214°



**New Tech Global Environmental, LLC**  
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 Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

**1 of 1**

SCALE: AS SHOWN    DATE: 10/23/2023    PROJECT #: 237580

## TABLES

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**Table 1**  
**Summary of Soil Analytical Data - Delineation Samples**  
**Antler 17 State #002H**  
**Earthstone Operating, LLC**  
**Lea County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28- C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
Assessment Samples														
L-1	7/14/2023	Surface	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	216	
	7/14/2023	0-6"	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	163	
L-2	7/14/2023	Surface	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.4	528	528	<50.4	528	7,690	
	7/14/2023	0-6"	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.1	75.1	75.1	<50.1	75.1	407	
	7/14/2023	6"-1'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	1,130	
	7/14/2023	1-1.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	588	
L-3	7/14/2023	Surface	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	1,590	1,590	<49.8	1,590	2,360	
	7/14/2023	0-6"	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.2	740	740	<50.2	740	800	
	7/14/2023	6"-1'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.4	55.4	55.4	<50.4	55.4	501	
	7/14/2023	1-1.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.7	133	133	<49.7	133	315	
	7/14/2023	2-2.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.5	<49.5	<49.5	<49.5	<49.5	115	
Confirmation Sidewall Samples														
H-1	8/3/2023	Surface	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464	
	8/3/2023	0-6"	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320	
	8/3/2023	1'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224	
	8/3/2023	1.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
	8/3/2023	2	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
	8/3/2023	2.5	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
	8/3/2023	3'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
H-2	8/2/2023	Surface	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
	8/2/2023	6"	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
	8/2/2023	1'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
	8/2/2023	1.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
	8/3/2023	2'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
	8/3/2023	2.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
	8/3/2023	3'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16	
H-3	8/2/2023	Surface	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
	8/2/2023	6"	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	
	8/3/2023	1'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96	
	8/3/2023	1.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64	
	8/3/2023	2'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48	
	8/3/2023	2.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
	8/3/2023	3'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	

## Notes:

1. Values reported in mg/kg

2. &lt; = Value Less Than Reporting Limit (RL)

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

SP-1 Sample Point Excavated

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).

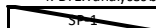
9. --- Not Analyzed

Table 2  
Summary of Soil Analytical Data - Confirmation Samples  
Antler 17 State 1BS #002  
Earthstone Operating, LLC  
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C35)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Base Confirmation Samples													
CS-1	9/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-2	9/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.5	58.5	40.0	98.5	368
CS-3	9/12/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
Sidewall Samples													
SW-1	9/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SW-2	9/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW-3	9/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.3	13.3	<10.0	13.3	224
SW-4	9/12/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-5	9/12/2023	2-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224

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

 Sample Point Excavated

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

## **APPENDIX A: SITE CHARACTERIZATION DOCUMENTATION**



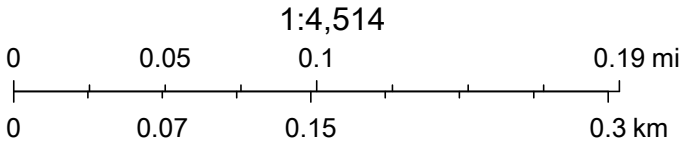
# Site Characterization Map



10/23/2023, 3:13:43 PM

Karst Occurrence Potential

- Low
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, USGS, OCD, Esri, HERE, Garmin, IPC, Maxar, NM OSE, BLM



# Antler 17 State 1BS #002H

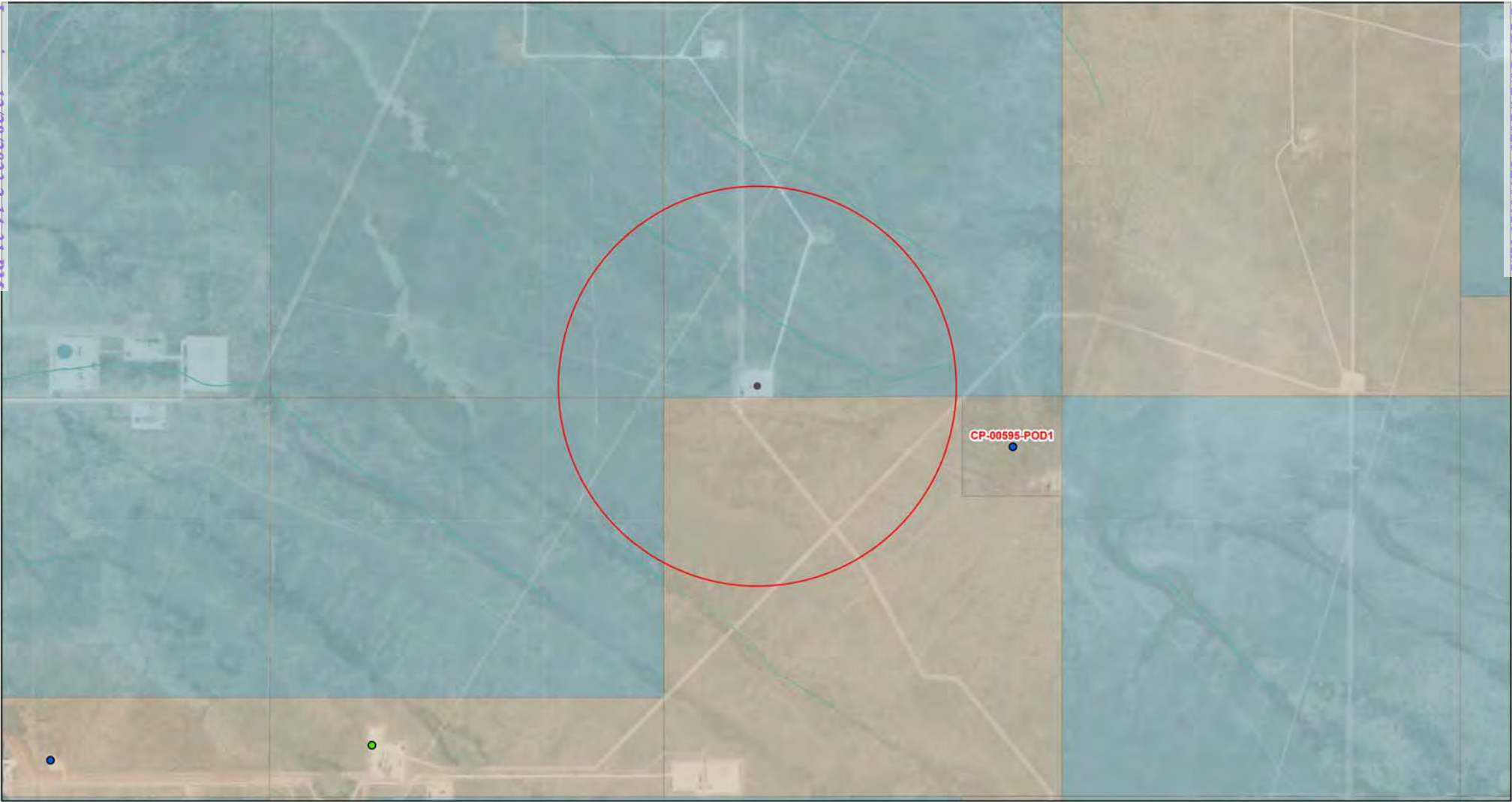
Karst Potential Map

## Legend

- High
- Low
- Medium
- Site Location

Antler17 State 1BS #002H

OSE POD Locations Map



8/3/2023, 2:17:47 PM

GIS WATERS PODs

- Active
- Pending

OSE District Boundary

Water Right Regulations

Closure Area

New Mexico State Trust Lands

Subsurface Estate

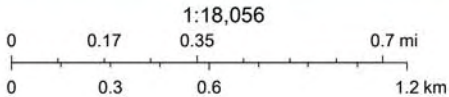
Both Estates

NHD Flowlines

Artificial Path

Stream River

SiteBoundaries



Esri, HERE, IPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, IPC, Maxar

Web Generated Map  
Map is generated by web users.



# Antler 17 State 1BS #002H

Nearest Water Well

## Legend

- 0.66 Miles South-Southeast
- 1/2 Mile Radius
- NMSEO Water Well
- Site Location



Drilled 1936 - 78'



1 mi



Revised December 1975

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

## Declaration of Owner of Underground Water Right

CAPITAN BASIN

BASIN NAME

Declaration No. CP-595

Date received April 17, 1979 APR 20 PM 3 00

## STATEMENT

1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY STATE ENGINEER OFFICE  
Mailing Address P.O. Box 548 Carlsbad SANTA FE, N.M. 87501  
County of Eddy, State of New Mexico
2. Source of water supply shallow  
(artesian or shallow water aquifer)
3. Describe well location under one of the following subheadings:  
a.  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Sec. 20 Twp. 22 S Rge. 35 E N.M.P.M., in  
Lea County.  
b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_  
c. X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, N. M. Coordinate System \_\_\_\_\_ Zone  
in the \_\_\_\_\_ Grant.  
On land owned by \_\_\_\_\_
4. Description of well: date drilled 1936 driller \_\_\_\_\_ depth 96' feet.  
outside diameter of casing 6 5/8 inches; original capacity \_\_\_\_\_ gal. per min.; present capacity 2  
gal. per min.; pumping lift \_\_\_\_\_ feet; static water level 78 feet (above) (below) land surface;  
make and type of pump \_\_\_\_\_  
make, type, horsepower, etc., of power plant \_\_\_\_\_  
Fractional or percentage interest claimed in well 100%
5. Quantity of water appropriated and beneficially used up to 3  
~~XXXXXXXXXX~~ (acre feet per annum)  
for stock water purposes.
6. Acreage actually irrigated \_\_\_\_\_ acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acre Irrigated	Owner
				<u>stock only</u>	<u>The Merchant Livestock Co.</u>

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use 1936 and since that time  
month \_\_\_\_\_ day \_\_\_\_\_ year \_\_\_\_\_  
has been used fully and continuously on all of the above described lands or for the above described purposes except  
as follows: \_\_\_\_\_

## 8. Additional statements or explanations

name of well - Cotton

I, J. D. Merchant, Jr. President \_\_\_\_\_ being first duly sworn upon my oath,  
depose and say that the above is a full and complete statement prepared in accordance with the instructions on the  
reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully  
read each and all of the contents contained therein and that the same are true to the best of my knowledge and belief.

THE MERCHANT LIVESTOCK CO., declarant.

by: J. D. Merchant, Jr. PresidentSubscribed and sworn to before me this 12th day of April, A.D. 19 79My commission expires March 2, 1980 Notary Public

FILED

UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM.  
ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) \_\_\_\_\_, Township \_\_\_\_\_, Range \_\_\_\_\_ N. M. P. M.


#### INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest  $2\frac{1}{2}$  acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

April 17, 1979

Files: CP-584; CP-585; CP-586; CP-587; CP-588;  
CP-589; CP-590; CP-591; CP-592; CP-593;  
CP-594; CP-595; CP-596; CP-597; CP-598;  
CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company  
P. O. Box 548  
Corlabad, NM 88220

Gentlemen:

Enclosed are your copies of Declarations of Owner of Underground  
Water Right as numbered above, which have been filed for record  
in the office of the State Engineer.

Please refer to each individual number in all future correspondence  
concerning these declarations.

The filing of these declarations does not indicate affirmation or  
rejection of the statements contained therein.

Yours very truly,

J. C. Groseclose  
Basin Supervisor

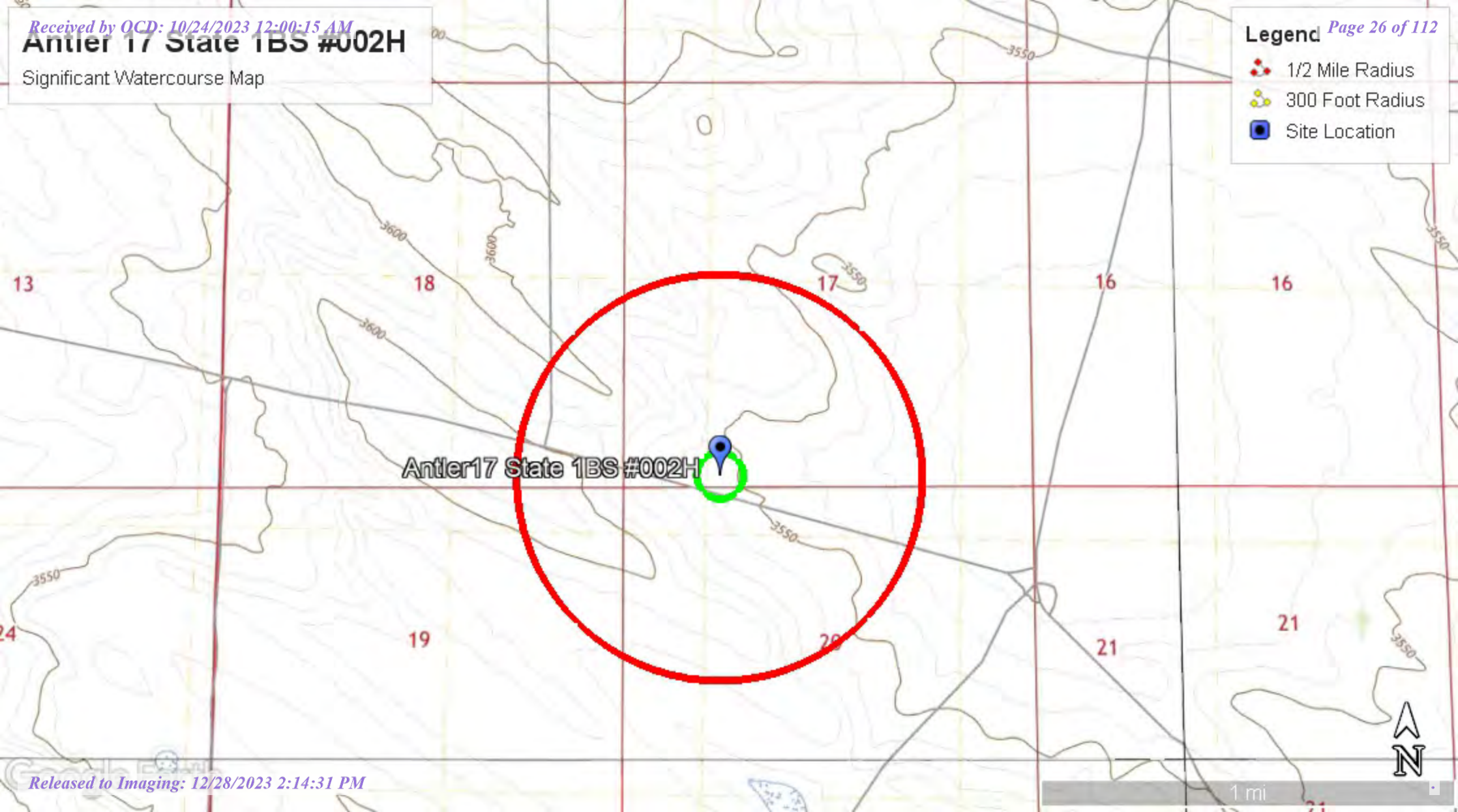
JCG/eh  
encl.  
cc: Santa Fe

**Antler 17 State IBS #002H**

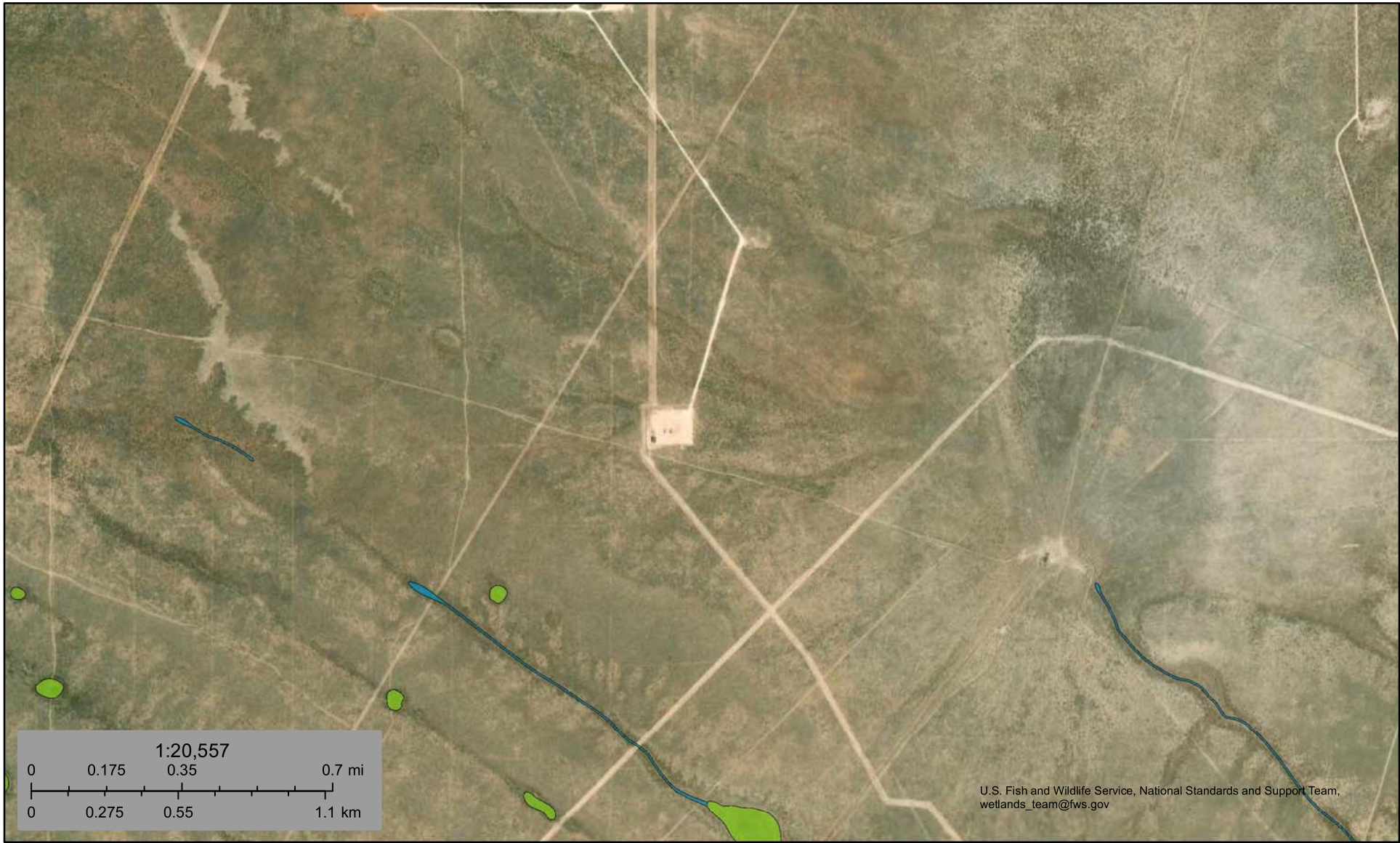
Significant Watercourse Map

**Legend** *Page 26 of 112*

-  1/2 Mile Radius
-  300 Foot Radius
-  Site Location







August 3, 2023

Wetlands

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

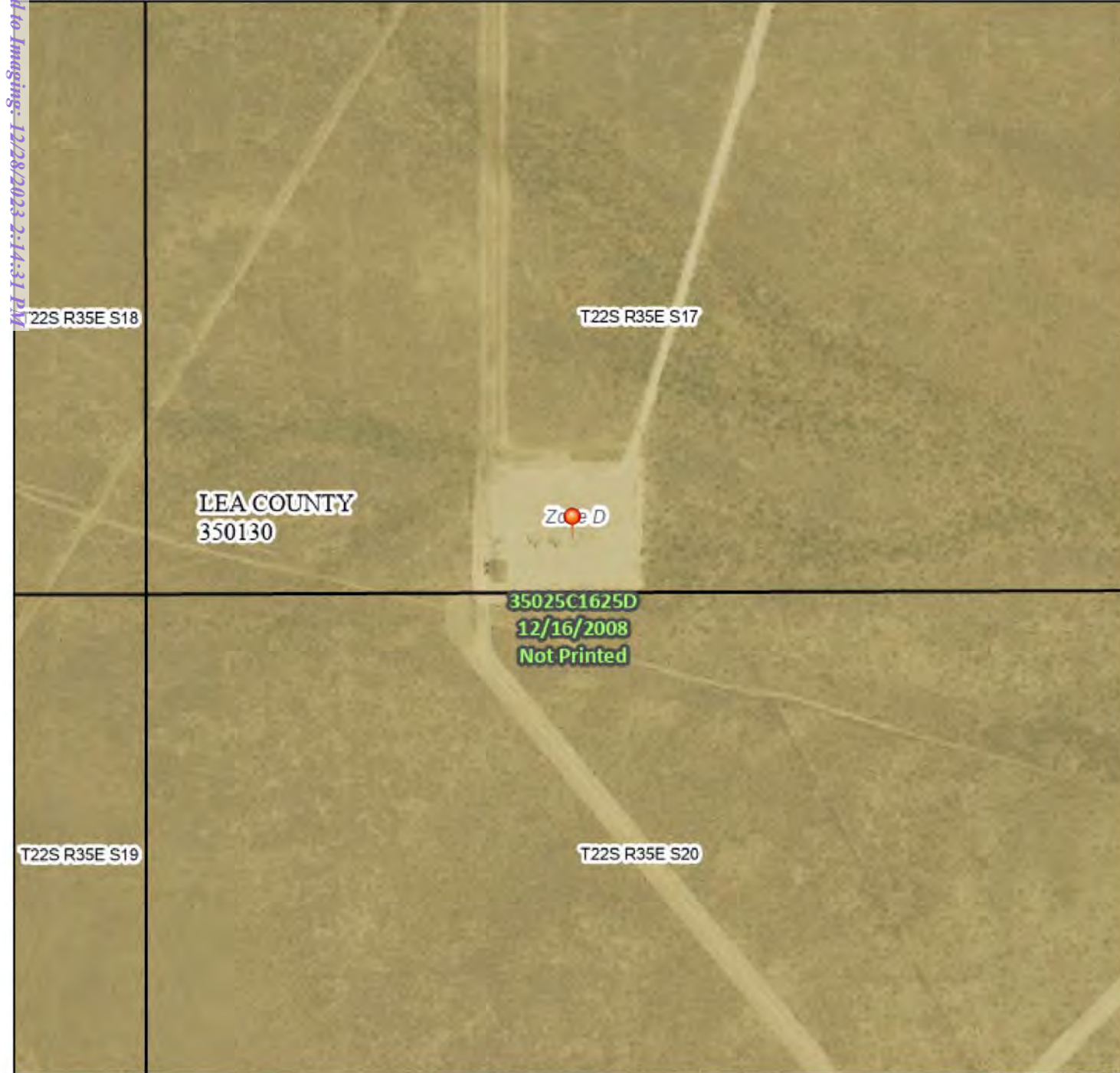
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°23'58"W 32°23'21"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°23'20"W 32°22'50"N

Basemap Imagery Source: USGS National Map 2023

## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone Z
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Digital Data Available
		No Digital Data Available
MAP PANELS		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/3/2023 at 3:39 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.

## **APPENDIX B: PHOTOGRAPHIC LOG**

---



## PHOTOGRAPHIC LOG

Earthstone Operating, LLC

### Photograph No. 1

**Facility:** Antler 17 State 1BS #002H

**County:** Lea County, New Mexico

**Description:**  
View of the release area.



### Photograph No. 2

**Facility:** Antler 17 State 1BS #002H

**County:** Lea County, New Mexico

**Description:**  
View of the release area.



### Photograph No. 3

**Facility:** Antler 17 State 1BS #002H

**County:** Lea County, New Mexico

**Description:**  
View of the release area.





**PHOTOGRAPHIC LOG**

Earthstone Operating, LLC

**Photograph No. 4****Facility:** Antler 17 State 1BS #002H**County:** Lea County, New Mexico**Description:**  
View of the excavation area.**Photograph No. 5****Facility:** Antler 17 State 1BS #002H**County:** Lea County, New Mexico**Description:**  
View of the excavation area.**Photograph No. 6****Facility:** Antler 17 State 1BS #002H**County:** Lea County, New Mexico**Description:**  
View of the excavation area.

## **APPENDIX C: CONFIRMATION SAMPLING NOTIFICATION**

## Becky Haskell

---

**From:** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>  
**Sent:** Wednesday, September 6, 2023 4:22 PM  
**To:** Ricardo Baer; Enviro, OCD, EMNRD  
**Cc:** Becky Haskell; NTG Env Carlsbad; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD  
**Subject:** RE: [EXTERNAL] Antler 17 State 1BS #002H

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

---

**From:** Ricardo Baer <Rbaer@ntglobal.com>  
**Sent:** Wednesday, September 6, 2023 2:23 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg\_env\_carlsbad@ntglobal.com>  
**Subject:** [EXTERNAL] Antler 17 State 1BS #002H

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

NTGE, on behalf of Earthstone Resources Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

Antler 17 State 1BS #002H  
M-17-22S-35E  
Lea, NM  
nRM2028946301

Sampling will begin at 8:00 a.m. on Monday, September 11, 2023, and continue through Friday, September 15, 2023. Please let me know if you have any questions.

Thank you,

**Ricardo Baer, CSHO<sup>2</sup>**  
**Project Coordinator**  
**(432) 556-2006**  
[Rbaer@ntglobal.com](mailto:Rbaer@ntglobal.com)



STATEMENT OF CONFIDENTIALITY: The contents of this e-mail and its attachments are intended solely for the addressee(s) hereof. In addition, this e-mail transmission may be confidential. If you are not the named addressee, or if this message has been addressed to you in error, you are directed not to read, disclose, reproduce, distribute, disseminate or otherwise use this transmission. Delivery of this message to any person other than the intended recipients(s) is not intended in any way to waive confidentiality. If you have received this transmission in error, please alert the sender by reply e-mail; we also request that you immediately delete this message and its attachments, if any.

## **APPENDIX D: LABORATORY ANALYTICAL REPORTS AND CHAIN- OF-CUSTODY DOCUMENTATION**

---



Environment Testing

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- 14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeff Kindley

NT Global

701 Tradewinds Blvd

Midland, Texas 79706

Generated 7/25/2023 11:09:44 AM

## JOB DESCRIPTION

Earthstone-Antler 17 State 1BS #002H

SDG NUMBER Lea Co., NM

## JOB NUMBER

880-30832-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701



# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
7/25/2023 11:09:44 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Laboratory Job ID: 880-30832-1  
SDG: Lea Co., NM

# Table of Contents

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## Definitions/Glossary

Client: NT Global

Job ID: 880-30832-1

Project/Site: Earthstone-Antler 17 State 1BS #002H

SDG: Lea Co., NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

**Job ID: 880-30832-1**

**Laboratory: Eurofins Midland**

**Narrative****Job Narrative  
880-30832-1****Receipt**

The samples were received on 7/17/2023 4:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: L-1 (Surface) (880-30832-1), L-1 (0-6") (880-30832-2), L-2 (Surface) (880-30832-3), L-2 (0-6") (880-30832-4), L-2 (6"-1') (880-30832-5), L-2 (1-1.5') (880-30832-6), L-3 (Surface) (880-30832-7), L-3 (0-6") (880-30832-8), L-3 (6"-1') (880-30832-9), L-3 (1-1.5') (880-30832-10) and L-3 (2-2.5') (880-30832-11).

**GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: L-1 (0-6") (880-30832-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: L-2 (6"-1') (880-30832-5), L-2 (1-1.5') (880-30832-6) and L-3 (2-2.5') (880-30832-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: L-1 (Surface) (880-30832-1), L-1 (0-6") (880-30832-2), L-2 (Surface) (880-30832-3), L-2 (6"-1') (880-30832-5), L-2 (1-1.5') (880-30832-6), L-3 (Surface) (880-30832-7) and (880-30795-A-64-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: L-3 (6"-1') (880-30832-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57953 and analytical batch 880-58292 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



## Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-1 (Surface)

Lab Sample ID: 880-30832-1

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/18/23 08:19	07/18/23 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/18/23 08:19	07/18/23 11:30	1
1,4-Difluorobenzene (Surr)	81		70 - 130	07/18/23 08:19	07/18/23 11:30	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/18/23 17:09	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 22:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 22:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	07/18/23 13:34	07/24/23 22:16	1
o-Terphenyl	75		70 - 130	07/18/23 13:34	07/24/23 22:16	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		5.02		mg/Kg			07/18/23 13:04	1

Client Sample ID: L-1 (0-6")

Lab Sample ID: 880-30832-2

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/18/23 08:19	07/18/23 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/18/23 08:19	07/18/23 11:50	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	07/18/23 08:19	07/18/23 11:50	1

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## Client Sample Results

Client: NT Global

Job ID: 880-30832-1

Project/Site: Earthstone-Antler 17 State 1BS #002H

SDG: Lea Co., NM

Client Sample ID: L-1 (0-6")

Lab Sample ID: 880-30832-2

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/18/23 17:09	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 22:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 22:38	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				07/18/23 13:34	07/24/23 22:38	1
o-Terphenyl	74		70 - 130				07/18/23 13:34	07/24/23 22:38	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		4.95		mg/Kg			07/18/23 13:09	1

Client Sample ID: L-2 (Surface)

Lab Sample ID: 880-30832-3

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				07/18/23 08:19	07/18/23 12:11	1
1,4-Difluorobenzene (Surr)	75		70 - 130				07/18/23 08:19	07/18/23 12:11	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/18/23 17:09	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	528		50.4		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/24/23 22:59	1
Diesel Range Organics (Over C10-C28)	528		50.4		mg/Kg		07/18/23 13:34	07/24/23 22:59	1

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## Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## Client Sample ID: L-2 (Surface)

Lab Sample ID: 880-30832-3

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/24/23 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				07/18/23 13:34	07/24/23 22:59	1
o-Terphenyl	72		70 - 130				07/18/23 13:34	07/24/23 22:59	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7690		101		mg/Kg			07/18/23 13:24	20

## Client Sample ID: L-2 (0-6")

Lab Sample ID: 880-30832-4

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				07/18/23 08:19	07/18/23 16:56	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/18/23 08:19	07/18/23 16:56	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.1		50.1		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 23:20	1
Diesel Range Organics (Over C10-C28)	75.1		50.1		mg/Kg		07/18/23 13:34	07/24/23 23:20	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				07/18/23 13:34	07/24/23 23:20	1
o-Terphenyl	78		70 - 130				07/18/23 13:34	07/24/23 23:20	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	407		4.99		mg/Kg			07/18/23 13:29	1

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## Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-2 (6"-1')

Lab Sample ID: 880-30832-5

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	07/18/23 08:19	07/18/23 17:17	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	07/18/23 08:19	07/18/23 17:17	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/24/23 23:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/24/23 23:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/24/23 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	07/18/23 13:34	07/24/23 23:41	1
o-Terphenyl	74		70 - 130	07/18/23 13:34	07/24/23 23:41	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		24.9		mg/Kg			07/18/23 13:34	5

Client Sample ID: L-2 (1-1.5')

Lab Sample ID: 880-30832-6

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/18/23 08:19	07/18/23 17:37	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	07/18/23 08:19	07/18/23 17:37	1

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## Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-2 (1-1.5')

Lab Sample ID: 880-30832-6

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/18/23 13:34	07/25/23 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/18/23 13:34	07/25/23 00:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/18/23 13:34	07/25/23 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				07/18/23 13:34	07/25/23 00:02	1
o-Terphenyl	73		70 - 130				07/18/23 13:34	07/25/23 00:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	588		4.96		mg/Kg			07/18/23 13:39	1

Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				07/18/23 08:19	07/18/23 17:58	1
1,4-Difluorobenzene (Surr)	86		70 - 130				07/18/23 08:19	07/18/23 17:58	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1590		49.8		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/25/23 00:22	1
Diesel Range Organics (Over C10-C28)	1590		49.8		mg/Kg		07/18/23 13:34	07/25/23 00:22	1

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## Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/25/23 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	14	S1-	70 - 130				07/18/23 13:34	07/25/23 00:22	1
o-Terphenyl	17	S1-	70 - 130				07/18/23 13:34	07/25/23 00:22	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2360		25.1		mg/Kg			07/18/23 13:44	5

## Client Sample ID: L-3 (0-6")

Lab Sample ID: 880-30832-8

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				07/18/23 08:19	07/18/23 18:18	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/18/23 08:19	07/18/23 18:18	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	740		50.2		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		07/18/23 13:34	07/25/23 00:43	1
Diesel Range Organics (Over C10-C28)	740		50.2		mg/Kg		07/18/23 13:34	07/25/23 00:43	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/18/23 13:34	07/25/23 00:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/18/23 13:34	07/25/23 00:43	1
o-Terphenyl	95		70 - 130				07/18/23 13:34	07/25/23 00:43	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	800		4.97		mg/Kg			07/18/23 13:49	1

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## Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-3 (6"-1')

Lab Sample ID: 880-30832-9

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/18/23 08:19	07/18/23 18:39	1
1,4-Difluorobenzene (Surr)	73		70 - 130	07/18/23 08:19	07/18/23 18:39	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.4		50.4		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/25/23 01:03	1
Diesel Range Organics (Over C10-C28)	55.4		50.4		mg/Kg		07/18/23 13:34	07/25/23 01:03	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/25/23 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	07/18/23 13:34	07/25/23 01:03	1
o-Terphenyl	75		70 - 130	07/18/23 13:34	07/25/23 01:03	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		5.00		mg/Kg			07/18/23 14:04	1

Client Sample ID: L-3 (1-1.5')

Lab Sample ID: 880-30832-10

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/18/23 08:19	07/18/23 18:59	1
1,4-Difluorobenzene (Surr)	74		70 - 130	07/18/23 08:19	07/18/23 18:59	1

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## Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-3 (1-1.5')

Lab Sample ID: 880-30832-10

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	133		49.7		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/18/23 13:36	07/25/23 01:43	1
Diesel Range Organics (Over C10-C28)	133		49.7		mg/Kg		07/18/23 13:36	07/25/23 01:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/18/23 13:36	07/25/23 01:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				07/18/23 13:36	07/25/23 01:43	1
o-Terphenyl	80		70 - 130				07/18/23 13:36	07/25/23 01:43	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	315		4.99		mg/Kg			07/18/23 14:08	1

Client Sample ID: L-3 (2-2.5')

Lab Sample ID: 880-30832-11

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				07/18/23 08:19	07/18/23 19:20	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				07/18/23 08:19	07/18/23 19:20	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/19/23 09:37	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			07/25/23 11:30	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		07/18/23 13:36	07/25/23 02:03	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		07/18/23 13:36	07/25/23 02:03	1

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Client Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-3 (2-2.5')  
Date Collected: 07/14/23 00:00  
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-11  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		07/18/23 13:36	07/25/23 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				07/18/23 13:36	07/25/23 02:03	1
o-Terphenyl	81		70 - 130				07/18/23 13:36	07/25/23 02:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		5.01		mg/Kg			07/18/23 14:24	1

## Surrogate Summary

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30832-1	L-1 (Surface)	90	81
880-30832-1 MS	L-1 (Surface)	120	100
880-30832-1 MSD	L-1 (Surface)	114	86
880-30832-2	L-1 (0-6")	88	65 S1-
880-30832-3	L-2 (Surface)	91	75
880-30832-4	L-2 (0-6")	73	74
880-30832-5	L-2 (6"-1')	84	68 S1-
880-30832-6	L-2 (1-1.5')	87	62 S1-
880-30832-7	L-3 (Surface)	99	86
880-30832-8	L-3 (0-6")	91	74
880-30832-9	L-3 (6"-1')	90	73
880-30832-10	L-3 (1-1.5')	90	74
880-30832-11	L-3 (2-2.5')	84	66 S1-
LCS 880-57901/1-A	Lab Control Sample	117	101
LCSD 880-57901/2-A	Lab Control Sample Dup	118	105
MB 880-57901/5-A	Method Blank	75	89
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30795-A-64-C MS	Matrix Spike	75	72
880-30795-A-64-D MSD	Matrix Spike Duplicate	76	70
880-30832-1	L-1 (Surface)	68 S1-	75
880-30832-2	L-1 (0-6")	67 S1-	74
880-30832-3	L-2 (Surface)	67 S1-	72
880-30832-4	L-2 (0-6")	71	78
880-30832-5	L-2 (6"-1')	66 S1-	74
880-30832-6	L-2 (1-1.5')	68 S1-	73
880-30832-7	L-3 (Surface)	14 S1-	17 S1-
880-30832-8	L-3 (0-6")	88	95
880-30832-9	L-3 (6"-1')	66 S1-	75
880-30832-10	L-3 (1-1.5')	72	80
880-30832-11	L-3 (2-2.5')	74	81
LCS 880-57953/2-A	Lab Control Sample	84	85
LCSD 880-57953/3-A	Lab Control Sample Dup	84	83
MB 880-57953/1-A	Method Blank	82	93
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57901/5-A

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/23 08:19	07/18/23 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	07/18/23 08:19	07/18/23 11:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/18/23 08:19	07/18/23 11:08	1

Lab Sample ID: LCS 880-57901/1-A

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	0.100	0.09011		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2282		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1130		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-57901/2-A

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1098		mg/Kg		110	70 - 130	7	35
Toluene	0.100	0.09791		mg/Kg		98	70 - 130	8	35
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2404		mg/Kg		120	70 - 130	5	35
o-Xylene	0.100	0.1187		mg/Kg		119	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-30832-1 MS

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: L-1 (Surface)

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.1065		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.0994	0.09528		mg/Kg		96	70 - 130

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## QC Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-30832-1 MS

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: L-1 (Surface)

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0994	0.1091		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2281		mg/Kg		115	70 - 130
o-Xylene	<0.00198	U	0.0994	0.1127		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-30832-1 MSD

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: L-1 (Surface)

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1035		mg/Kg		104	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.09464		mg/Kg		95	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.0998	0.1076		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2220		mg/Kg		111	70 - 130	3	35
o-Xylene	<0.00198	U	0.0998	0.1094		mg/Kg		110	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-57953/1-A

Matrix: Solid

Analysis Batch: 58292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 20:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 20:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/18/23 13:34	07/24/23 20:09	1
o-Terphenyl	93		70 - 130	07/18/23 13:34	07/24/23 20:09	1

Lab Sample ID: LCS 880-57953/2-A

Matrix: Solid

Analysis Batch: 58292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	834.0		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	877.2		mg/Kg		88	70 - 130

Eurofins Midland

## QC Sample Results

Client: NT Global

Job ID: 880-30832-1

Project/Site: Earthstone-Antler 17 State 1BS #002H

SDG: Lea Co., NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-57953/2-A

Matrix: Solid

Analysis Batch: 58292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57953

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: LCSD 880-57953/3-A

Matrix: Solid

Analysis Batch: 58292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57953

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	825.8		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	875.4		mg/Kg		88	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-30795-A-64-C MS

Matrix: Solid

Analysis Batch: 58292

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	680.4	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	792.9		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 880-30795-A-64-D MSD

Matrix: Solid

Analysis Batch: 58292

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	699.4	F1	mg/Kg		66	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	789.2		mg/Kg		77	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	70		70 - 130

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## QC Sample Results

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57908/1-A

Matrix: Solid

Analysis Batch: 57957

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/18/23 12:24	1

Lab Sample ID: LCS 880-57908/2-A

Matrix: Solid

Analysis Batch: 57957

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.5		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-57908/3-A

Matrix: Solid

Analysis Batch: 57957

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-30832-8 MS

Matrix: Solid

Analysis Batch: 57957

Client Sample ID: L-3 (0-6")

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	800		249	1023		mg/Kg		90	90 - 110

Lab Sample ID: 880-30832-8 MSD

Matrix: Solid

Analysis Batch: 57957

Client Sample ID: L-3 (0-6")

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	800		249	1024		mg/Kg		90	90 - 110	0	20

## QC Association Summary

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## GC VOA

## Analysis Batch: 57899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8021B	57901
880-30832-2	L-1 (0-6")	Total/NA	Solid	8021B	57901
880-30832-3	L-2 (Surface)	Total/NA	Solid	8021B	57901
880-30832-4	L-2 (0-6")	Total/NA	Solid	8021B	57901
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8021B	57901
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8021B	57901
880-30832-7	L-3 (Surface)	Total/NA	Solid	8021B	57901
880-30832-8	L-3 (0-6")	Total/NA	Solid	8021B	57901
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8021B	57901
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8021B	57901
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8021B	57901
MB 880-57901/5-A	Method Blank	Total/NA	Solid	8021B	57901
LCS 880-57901/1-A	Lab Control Sample	Total/NA	Solid	8021B	57901
LCSD 880-57901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57901
880-30832-1 MS	L-1 (Surface)	Total/NA	Solid	8021B	57901
880-30832-1 MSD	L-1 (Surface)	Total/NA	Solid	8021B	57901

## Prep Batch: 57901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	5035	
880-30832-2	L-1 (0-6")	Total/NA	Solid	5035	
880-30832-3	L-2 (Surface)	Total/NA	Solid	5035	
880-30832-4	L-2 (0-6")	Total/NA	Solid	5035	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	5035	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	5035	
880-30832-7	L-3 (Surface)	Total/NA	Solid	5035	
880-30832-8	L-3 (0-6")	Total/NA	Solid	5035	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	5035	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	5035	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	5035	
MB 880-57901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30832-1 MS	L-1 (Surface)	Total/NA	Solid	5035	
880-30832-1 MSD	L-1 (Surface)	Total/NA	Solid	5035	

## Analysis Batch: 57983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	Total BTEX	
880-30832-2	L-1 (0-6")	Total/NA	Solid	Total BTEX	
880-30832-3	L-2 (Surface)	Total/NA	Solid	Total BTEX	
880-30832-4	L-2 (0-6")	Total/NA	Solid	Total BTEX	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	Total BTEX	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	Total BTEX	
880-30832-7	L-3 (Surface)	Total/NA	Solid	Total BTEX	
880-30832-8	L-3 (0-6")	Total/NA	Solid	Total BTEX	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	Total BTEX	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	Total BTEX	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## GC Semi VOA

## Prep Batch: 57953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8015NM Prep	
880-30832-2	L-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-30832-3	L-2 (Surface)	Total/NA	Solid	8015NM Prep	
880-30832-4	L-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8015NM Prep	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-30832-7	L-3 (Surface)	Total/NA	Solid	8015NM Prep	
880-30832-8	L-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8015NM Prep	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-57953/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57953/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57953/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30795-A-64-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30795-A-64-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 58292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8015B NM	57953
880-30832-2	L-1 (0-6")	Total/NA	Solid	8015B NM	57953
880-30832-3	L-2 (Surface)	Total/NA	Solid	8015B NM	57953
880-30832-4	L-2 (0-6")	Total/NA	Solid	8015B NM	57953
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8015B NM	57953
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8015B NM	57953
880-30832-7	L-3 (Surface)	Total/NA	Solid	8015B NM	57953
880-30832-8	L-3 (0-6")	Total/NA	Solid	8015B NM	57953
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8015B NM	57953
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8015B NM	57953
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8015B NM	57953
MB 880-57953/1-A	Method Blank	Total/NA	Solid	8015B NM	57953
LCS 880-57953/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57953
LCSD 880-57953/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57953
880-30795-A-64-C MS	Matrix Spike	Total/NA	Solid	8015B NM	57953
880-30795-A-64-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57953

## Analysis Batch: 58471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8015 NM	
880-30832-2	L-1 (0-6")	Total/NA	Solid	8015 NM	
880-30832-3	L-2 (Surface)	Total/NA	Solid	8015 NM	
880-30832-4	L-2 (0-6")	Total/NA	Solid	8015 NM	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8015 NM	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8015 NM	
880-30832-7	L-3 (Surface)	Total/NA	Solid	8015 NM	
880-30832-8	L-3 (0-6")	Total/NA	Solid	8015 NM	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8015 NM	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8015 NM	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

## QC Association Summary

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## HPLC/IC

## Leach Batch: 57908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Soluble	Solid	DI Leach	
880-30832-2	L-1 (0-6")	Soluble	Solid	DI Leach	
880-30832-3	L-2 (Surface)	Soluble	Solid	DI Leach	
880-30832-4	L-2 (0-6")	Soluble	Solid	DI Leach	
880-30832-5	L-2 (6"-1')	Soluble	Solid	DI Leach	
880-30832-6	L-2 (1-1.5')	Soluble	Solid	DI Leach	
880-30832-7	L-3 (Surface)	Soluble	Solid	DI Leach	
880-30832-8	L-3 (0-6")	Soluble	Solid	DI Leach	
880-30832-9	L-3 (6"-1')	Soluble	Solid	DI Leach	
880-30832-10	L-3 (1-1.5')	Soluble	Solid	DI Leach	
880-30832-11	L-3 (2-2.5')	Soluble	Solid	DI Leach	
MB 880-57908/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57908/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57908/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30832-8 MS	L-3 (0-6")	Soluble	Solid	DI Leach	
880-30832-8 MSD	L-3 (0-6")	Soluble	Solid	DI Leach	

## Analysis Batch: 57957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Soluble	Solid	300.0	57908
880-30832-2	L-1 (0-6")	Soluble	Solid	300.0	57908
880-30832-3	L-2 (Surface)	Soluble	Solid	300.0	57908
880-30832-4	L-2 (0-6")	Soluble	Solid	300.0	57908
880-30832-5	L-2 (6"-1')	Soluble	Solid	300.0	57908
880-30832-6	L-2 (1-1.5')	Soluble	Solid	300.0	57908
880-30832-7	L-3 (Surface)	Soluble	Solid	300.0	57908
880-30832-8	L-3 (0-6")	Soluble	Solid	300.0	57908
880-30832-9	L-3 (6"-1')	Soluble	Solid	300.0	57908
880-30832-10	L-3 (1-1.5')	Soluble	Solid	300.0	57908
880-30832-11	L-3 (2-2.5')	Soluble	Solid	300.0	57908
MB 880-57908/1-A	Method Blank	Soluble	Solid	300.0	57908
LCS 880-57908/2-A	Lab Control Sample	Soluble	Solid	300.0	57908
LCSD 880-57908/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57908
880-30832-8 MS	L-3 (0-6")	Soluble	Solid	300.0	57908
880-30832-8 MSD	L-3 (0-6")	Soluble	Solid	300.0	57908



Lab Chronicle

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-1 (Surface)  
Date Collected: 07/14/23 00:00  
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 11:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/18/23 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 22:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:04	CH	EET MID

Client Sample ID: L-1 (0-6")  
Date Collected: 07/14/23 00:00  
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-2  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 11:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/18/23 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 22:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:09	CH	EET MID

Client Sample ID: L-2 (Surface)  
Date Collected: 07/14/23 00:00  
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-3  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 12:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/18/23 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 22:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		20			57957	07/18/23 13:24	CH	EET MID

Client Sample ID: L-2 (0-6")  
Date Collected: 07/14/23 00:00  
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-4  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 16:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID

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## Lab Chronicle

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-2 (0-6")

Lab Sample ID: 880-30832-4

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 23:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:29	CH	EET MID

Client Sample ID: L-2 (6"-1')

Lab Sample ID: 880-30832-5

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 17:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 23:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			57957	07/18/23 13:34	CH	EET MID

Client Sample ID: L-2 (1-1.5')

Lab Sample ID: 880-30832-6

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 17:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 00:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:39	CH	EET MID

Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 17:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 00:22	SM	EET MID

Eurofins Midland

## Lab Chronicle

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

## Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			57957	07/18/23 13:44	CH	EET MID

## Client Sample ID: L-3 (0-6")

Lab Sample ID: 880-30832-8

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 18:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 00:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:49	CH	EET MID

## Client Sample ID: L-3 (6"-1')

Lab Sample ID: 880-30832-9

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 18:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 01:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 14:04	CH	EET MID

## Client Sample ID: L-3 (1-1.5')

Lab Sample ID: 880-30832-10

Date Collected: 07/14/23 00:00

Matrix: Solid

Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 18:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57953	07/18/23 13:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 01:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 14:08	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Client Sample ID: L-3 (2-2.5')

Date Collected: 07/14/23 00:00

Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 19:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	57953	07/18/23 13:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 02:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 14:24	CH	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Accreditation/Certification Summary

Client: NT Global  
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1  
SDG: Lea Co., NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Method Summary

Client: NT Global

Job ID: 880-30832-1

Project/Site: Earthstone-Antler 17 State 1BS #002H

SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

## Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: NT Global

Job ID: 880-30832-1

Project/Site: Earthstone-Antler 17 State 1BS #002H

SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30832-1	L-1 (Surface)	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-2	L-1 (0-6")	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-3	L-2 (Surface)	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-4	L-2 (0-6")	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-5	L-2 (6"-1')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-6	L-2 (1-1.5')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-7	L-3 (Surface)	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-8	L-3 (0-6")	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-9	L-3 (6"-1')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-10	L-3 (1-1.5')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-11	L-3 (2-2.5')	Solid	07/14/23 00:00	07/17/23 16:32



Chain of Custody



880-30832 Chain of Custody

7/25/2023

Project Manager: Jeff Kindley		Bill to: (if different) Chris Martin	
Company Name: NTG Environmental		Company Name: Earthstone Energy	
Address: 701 Tradewinds Blvd, Suite C		Address: 600 N Marienfeld Suite 1000	
City, State ZIP: Midland, TX 79706		City, State ZIP: Midland, Texas 79701	
Phone: 432-967-6544		Email: jkindley@ntglobal.com bhaskell@ntglobal.com	
Project Name: Earthstone - Antler 17 State 1BS #002H		Project Number: 237580	
Project Location: Lee Co., NM		Due Date: 24 HOUR	
Sample's Name: Grant Gardner		TAT starts the day received by the lab if received by 4:30pm	
PO #:		TAT starts the day received by the lab if received by 4:30pm	
SAMPLE RECEIPT		Temp Blank: Yes (No) Wet Ice: Yes (No)	
Received Intact: Yes (No)		Thermometer ID: 4789	
Cooler Custody Seals: Yes (No)		Correction Factor: 7.30	
Sample Custody Seals: Yes (No)		Temperature Reading: 4.30	
Total Containers		Corrected Temperature	
Sample Identification		Date	
L-1 (surface)		7/14/2023	
L-1 (0-6")		7/14/2023	
L-2 (surface)		7/14/2023	
L-2 (0-6")		7/14/2023	
L-2 (6"-1')		7/14/2023	
L-2 (1'-1.5')		7/14/2023	
L-3 (surface)		7/14/2023	
L-3 (0-6")		7/14/2023	
L-3 (6"-1')		7/14/2023	
L-3 (1'-1.5')		7/14/2023	
Additional Comments:			
Relinquished by (Signature)		Received by (Signature)	
Grant Gardner		7/17/23	
3		4	
5		6	

Work Order Comments	
Program UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input checked="" type="checkbox"/> ADAPT <input type="checkbox"/> Other	
Preservative Codes	
None NO DI Water H <sub>2</sub> O	
Cool Cool MeOH Me	
HCL HC HNO <sub>3</sub> HN	
H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> NaOH Na	
H <sub>3</sub> PO <sub>4</sub> HP	
NaHSO <sub>4</sub> NABIS	
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	
Sample Comments	

Page 1 of 2





# Chain of Custody

1008: 800

30832

**Work Order No.:**

7/25/2023

[illegible]

## Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-30832-1

SDG Number: Lea Co., NM

Login Number: 30832

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

---

August 09, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ANTLER 17 STATE 2 BS

Enclosed are the results of analyses for samples received by the laboratory on 08/02/23 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/02/2023  
 Reported: 08/09/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: NONE GIVEN

Sampling Date: 08/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (SURFACE) (H234096-04)**

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	08/07/2023	ND	2.04	102	2.00	2.46		
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67		
Total BTEX	<0.300	0.300	08/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	08/08/2023	ND	448	112	400	3.64		

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/02/2023  
 Reported: 08/09/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: NONE GIVEN

Sampling Date: 08/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (6") (H234096-05)**

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	08/07/2023	ND	2.04	102	2.00	2.46		
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67		
Total BTEx	<0.300	0.300	08/07/2023	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	48.0	16.0	08/08/2023	ND	448	112	400	3.64		

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/02/2023  
 Reported: 08/09/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: NONE GIVEN

Sampling Date: 08/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (1') (H234096-06)**

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	08/07/2023	ND	2.04	102	2.00	2.46		
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67		
Total BTEX	<0.300	0.300	08/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	08/08/2023	ND	448	112	400	3.64		

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/02/2023  
 Reported: 08/09/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: NONE GIVEN

Sampling Date: 08/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (1.5') (H234096-07)**

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	08/07/2023	ND	2.04	102	2.00	2.46		
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67		
Total BTEx	<0.300	0.300	08/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	64.0	16.0	08/08/2023	ND	448	112	400	3.64	

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/02/2023  
 Reported: 08/09/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: NONE GIVEN

Sampling Date: 08/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (SURFACE) (H234096-08)**

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	08/08/2023	ND	2.04	102	2.00	2.46	
Toluene*	<0.050	0.050	08/08/2023	ND	1.92	95.9	2.00	2.18	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.92	95.8	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.61	93.5	6.00	2.67	
Total BTEx	<0.300	0.300	08/08/2023	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	08/08/2023	ND	448	112	400	3.64	

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	08/08/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/02/2023  
 Reported: 08/09/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: NONE GIVEN

Sampling Date: 08/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (6") (H234096-09)**

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	08/08/2023	ND	2.04	102	2.00	2.46		
Toluene*	<0.050	0.050	08/08/2023	ND	1.92	95.9	2.00	2.18		
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.92	95.8	2.00	3.34		
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.61	93.5	6.00	2.67		
Total BTEX	<0.300	0.300	08/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	160	16.0	08/08/2023	ND	448	112	400	3.64		

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	08/08/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "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

<b>Company Name:</b> NTG Environmental <b>Project Manager:</b> BECKY HOSKELL <b>Address:</b> 701 Trade Winds Blvd. <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79705 <b>Phone #:</b> 432-466-1915 <b>Fax #:</b> <b>Project #:</b> 237580 <b>Project Owner:</b> <b>Project Name:</b> Antler 17 State 2H <b>Project Location:</b> Leo Co., NM <b>Sampler Name:</b> Nick Hurt Grant Gardner		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Earthstone <b>Attn:</b> Chris Martin <b>Address:</b> 600 N. Meritfield <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79705 <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>	
<b>Lab I.D.</b> H234094		<b>Sample I.D.</b> 1 H-1 (Surface) 2 H-1 (b) 3 H-1 (c) 4 H-2 (Surface) 5 H-2 (b) 6 H-2 (c) 7 H-2 (1) 8 H-3 (Surface) 9 H-3 (b)		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
DATE: 8-2-23 TIME: 1535 RECEIVED BY: [Signature]		DATE: 8-2-23 TIME: 1535 RECEIVED BY: [Signature]		DATE: 8-2-23 TIME: 1535 RECEIVED BY: [Signature]	
<b>Relinquished By:</b> Grant Gardner <b>Relinquished Date:</b> 8-2-23		<b>Relinquished By:</b> [Signature] <b>Relinquished Date:</b> 8-2-23		<b>Relinquished By:</b> [Signature] <b>Relinquished Date:</b> 8-2-23	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> 41		<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Rush 24 hours Standard 48 hours Correction Factor: 1.5		<b>Thermometer ID #140</b> Correction Factor: 1.5		<b>Bacteria (only)</b> <input checked="" type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>REMARKS:</b> * Removed due to breakage.		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Phone #:		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Phone #:	



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August 10, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ANTLER 17 STATE 2 BS

Enclosed are the results of analyses for samples received by the laboratory on 08/03/23 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (SURFACE) (H234133-01)**

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	08/09/2023	ND	1.97	98.4	2.00	5.36		
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30		
Total BTEX	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	464	16.0	08/08/2023	ND	416	104	400	7.41		

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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (6") (H234133-02)**

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	08/09/2023	ND	1.97	98.4	2.00	5.36		
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	320	16.0	08/08/2023	ND	416	104	400	7.41		

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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (1') (H234133-03)**

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	08/09/2023	ND	1.97	98.4	2.00	5.36		
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	224	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (1.5') (H234133-04)**

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	08/09/2023	ND	1.97	98.4	2.00	5.36		
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (2') (H234133-05)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	48.0	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (2.5') (H234133-06)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 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  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 08/03/2023  
Reported: 08/10/2023  
Project Name: ANTLER 17 STATE 2 BS  
Project Number: 237580  
Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (3') (H234133-07)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEX	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	48.0	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (2') (H234133-08)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (2.5') (H234133-09)**

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEx	<0.300	0.300	08/09/2023	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	48.0	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 08/03/2023  
Reported: 08/10/2023  
Project Name: ANTLER 17 STATE 2 BS  
Project Number: 237580  
Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (3') (H234133-10)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (1') (H234133-11)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 08/03/2023  
Reported: 08/10/2023  
Project Name: ANTLER 17 STATE 2 BS  
Project Number: 237580  
Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (1.5') (H234133-12)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (2') (H234133-13)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	48.0	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (2.5') (H234133-14)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 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  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 08/03/2023  
 Reported: 08/10/2023  
 Project Name: ANTLER 17 STATE 2 BS  
 Project Number: 237580  
 Project Location: EARTHSTONE

Sampling Date: 08/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (3') (H234133-15)**

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	08/09/2023	ND	2.19	109	2.00	6.95		
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38		
Total BTEx	<0.300	0.300	08/09/2023	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	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 112

<b>Company Name:</b> <u>STATE</u> <b>Project Manager:</b> <u>Benny H. Hosler</u> <b>Address:</b> <u>209 W. McLaughlin St</u> <b>City:</b> <u>Carlsbad</u> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88220</u> <b>Phone #:</b> <u>237580</u> <b>Fax #:</b> <u></u> <b>Project #:</b> <u>237580</u> <b>Project Owner:</b> <u></u> <b>Project Name:</b> <u>Antler 17 State 2 BS</u> <b>Project Location:</b> <u></u> <b>Sampler Name:</b> <u></u>		<b>BILL TO</b> <b>P.O. #:</b> <u></u> <b>Company:</b> <u>Eaststue</u> <b>Attn:</b> <u>Chris Martiny</u> <b>Address:</b> <u></u> <b>City:</b> <u></u> <b>State:</b> <u></u> <b>Zip:</b> <u></u> <b>Phone #:</b> <u></u> <b>Fax #:</b> <u></u>		<b>ANALYSIS REQUEST</b>			
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> <u>H234133</u> <b>Sample I.D.</b> <u>H-1 (Sulfate)</u> <u>1 H-1 (Sulfate)</u> <u>2 H-1 (Sulfate)</u> <u>3 H-1 (Sulfate)</u> <u>4 H-1 (Sulfate)</u> <u>5 H-1 (Sulfate)</u> <u>6 H-1 (Sulfate)</u> <u>7 H-1 (Sulfate)</u> <u>8 H-1 (Sulfate)</u> <u>9 H-1 (Sulfate)</u> <u>10 H-1 (Sulfate)</u>		<b>MATRIX</b> <input type="checkbox"/> (G) RAB OR (C) OMP. <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : <input checked="" type="checkbox"/> ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :		<b>PRESERV.</b> <b>DATE</b> <u>8/3/23</u> <b>TIME</b> <u>11:20</u> <u>11:25</u> <u>11:30</u> <u>11:35</u> <u>11:40</u> <u>11:45</u> <u>11:50</u> <u>11:55</u> <u>12:00</u> <u>12:05</u>		<b>SAMPLING</b> <u>BTEX</u> <u>TPH</u> <u>CHLORIDE</u>	
<b>Relinquished By:</b> <u>[Signature]</u> <b>Date:</b> <u>8-3-23</u> <b>Time:</b> <u>14:40</u> <b>Date:</b> <u>14:40</u> <b>Time:</b> <u></u>		<b>Received By:</b> <u>[Signature]</u> <b>Date:</b> <u>8-3-23</u> <b>Time:</b> <u>14:40</u> <b>Date:</b> <u>14:40</u> <b>Time:</b> <u></u>		<b>Remarks:</b> <u></u>			
<b>Delivered By: (Circle One)</b> <b>Sampler - UPS - Bus - Other:</b> <u></u>		<b>Observed Temp. °C</b> <u>4.8</u> <b>Corrected Temp. °C</b> <u></u>		<b>Sample Condition</b> <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Turnaround Time:</b> <u></u> <b>Thermometer ID #140</b> <u></u> <b>Correction Factor 0°C</b> <u></u>		<b>Standard</b> <u></u> <b>Rush</b> <u></u>		<b>Bacteria (only)</b> <u></u> <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Observed Temp. °C</b> <u></u> <b>Corrected Temp. °C</b> <u></u>		<b>Observed Temp. °C</b> <u></u> <b>Corrected Temp. °C</b> <u></u>		<b>Observed Temp. °C</b> <u></u> <b>Corrected Temp. °C</b> <u></u>			

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





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 212

Company Name: _____ Project Manager: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____ Project Location: _____ Sampler Name: _____ FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H234133</u> Sample I.D.		MATRIX (G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
DATE <u>8/3/23</u>		TIME <u>12:00</u> <u>12:20</u> <u>12:30</u> <u>12:35</u>	
Preserved: <u>✓</u> Sampling: <u>✓</u>		Analysis: <u>BTEX</u> <u>TPH</u> <u>CHLOROPE</u>	

Delivered By: (Circle One) Observed Temp. °C 4.8 Corrected Temp. °C \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_  
 Date: 8-3-23 Received By: [Signature]  
 Time: 1440

Turnaround Time: \_\_\_\_\_ Standard ✓ Bacteria (only) Sample Condition ✓  
 Thermometer ID #140 RUSH Cool Intact \_\_\_\_\_  
 Correction Factor 0°C \_\_\_\_\_  
 Observed Temp. °C \_\_\_\_\_ Corrected Temp. °C \_\_\_\_\_

Remarks: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_  
 Add'l Phone #: \_\_\_\_\_

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September 19, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ANTLER 17 IBS 002

Enclosed are the results of analyses for samples received by the laboratory on 09/12/23 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1 (2')	H234923-01	Soil	12-Sep-23 10:00	12-Sep-23 13:20
CS - 2 (2')	H234923-02	Soil	12-Sep-23 10:05	12-Sep-23 13:20
CS - 3 (3')	H234923-03	Soil	12-Sep-23 10:10	12-Sep-23 13:20
SW - 1 (0-2')	H234923-04	Soil	12-Sep-23 10:15	12-Sep-23 13:20
SW - 2 (0-2')	H234923-05	Soil	12-Sep-23 10:20	12-Sep-23 13:20
SW - 3 (0-2')	H234923-06	Soil	12-Sep-23 10:25	12-Sep-23 13:20
SW - 4 (0-3')	H234923-07	Soil	12-Sep-23 10:30	12-Sep-23 13:20
SW - 5 (2-3')	H234923-08	Soil	12-Sep-23 10:35	12-Sep-23 13:20

09/19/23 - Client clarified the project name. This is the revised report and will replace the one sent on 09/14/23.

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**CS - 1 (2')**  
**H234923-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 3091223 JH/ 13-Sep-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	

Surrogate: 1-Chlorooctane 80.2 % 48.2-134 3091227 MS 13-Sep-23 8015B

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148 3091227 MS 13-Sep-23 8015B

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**CS - 2 (2')**  
**H234923-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>368</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3091223	JH/	13-Sep-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>58.5</b>		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>40.0</b>		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	

Surrogate: 1-Chlorooctane			88.0 %		48.2-134	3091227	MS	13-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			94.6 %		49.1-148	3091227	MS	13-Sep-23	8015B	
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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**CS - 3 (3')**  
**H234923-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	71.5-134		3091223	JH/	13-Sep-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.4 %	48.2-134		3091227	MS	13-Sep-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.3 %	49.1-148		3091227	MS	13-Sep-23	8015B	
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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**SW - 1 (0-2')**  
**H234923-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>432</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	110 %	71.5-134	3091223	JH/	13-Sep-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	

Surrogate: 1-Chlorooctane	86.8 %	48.2-134	3091227	MS	13-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane	92.8 %	49.1-148	3091227	MS	13-Sep-23	8015B	
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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**SW - 2 (0-2')**  
**H234923-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>448</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3091223	JH/	13-Sep-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	

Surrogate: 1-Chlorooctane			83.1 %		48.2-134	3091227	MS	13-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			87.7 %		49.1-148	3091227	MS	13-Sep-23	8015B	
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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**SW - 3 (0-2')**  
**H234923-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		3091223	JH/	13-Sep-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>13.3</b>		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	

Surrogate: 1-Chlorooctane			81.8 %	48.2-134		3091227	MS	13-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			85.9 %	49.1-148		3091227	MS	13-Sep-23	8015B	
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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**SW - 4 (0-3')**  
**H234923-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	115 %	71.5-134	3091223	JH/	13-Sep-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	

Surrogate: 1-Chlorooctane	82.3 %	48.2-134	3091227	MS	13-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane	86.0 %	49.1-148	3091227	MS	13-Sep-23	8015B	
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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**SW - 5 (2-3')**  
**H234923-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	114 %	71.5-134	3091223	JH/	13-Sep-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3091303	MS	14-Sep-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3091303	MS	14-Sep-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3091303	MS	14-Sep-23	8015B	

Surrogate: 1-Chlorooctane	93.4 %	48.2-134	3091303	MS	14-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane	109 %	49.1-148	3091303	MS	14-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3091402 - 1:4 DI Water</b>									
<b>Blank (3091402-BLK1)</b>					Prepared & Analyzed: 14-Sep-23				
Chloride	ND	16.0	mg/kg						
<b>LCS (3091402-BS1)</b>					Prepared & Analyzed: 14-Sep-23				
Chloride	432	16.0	mg/kg	400		108	80-120		
<b>LCS Dup (3091402-BSD1)</b>					Prepared & Analyzed: 14-Sep-23				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3091223 - Volatiles****Blank (3091223-BLK1)**

Prepared: 12-Sep-23 Analyzed: 13-Sep-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0569		mg/kg	0.0500		114	71.5-134			

**LCS (3091223-BS1)**

Prepared: 12-Sep-23 Analyzed: 13-Sep-23

Benzene	1.99	0.050	mg/kg	2.00		99.6	82.8-130			
Toluene	2.01	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.26	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125			
Total Xylenes	6.37	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			

**LCS Dup (3091223-BS1)**

Prepared: 12-Sep-23 Analyzed: 13-Sep-23

Benzene	1.96	0.050	mg/kg	2.00		97.9	82.8-130	1.68	15.8	
Toluene	1.94	0.050	mg/kg	2.00		97.0	86-128	3.53	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128	1.77	16	
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	89-129	1.72	16.2	
o-Xylene	2.05	0.050	mg/kg	2.00		102	86.1-125	3.01	16.7	
Total Xylenes	6.24	0.150	mg/kg	6.00		104	88.2-128	2.15	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3091227 - General Prep - Organics****Blank (3091227-BLK1)**

Prepared: 12-Sep-23 Analyzed: 13-Sep-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	48.2-134		
Surrogate: 1-Chlorooctadecane	50.6		mg/kg	50.0		101	49.1-148		

**LCS (3091227-BS1)**

Prepared: 12-Sep-23 Analyzed: 13-Sep-23

GRO C6-C10	197	10.0	mg/kg	200		98.6	66.4-123		
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118		
Total TPH C6-C28	400	10.0	mg/kg	400		100	77.6-123		
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	48.2-134		
Surrogate: 1-Chlorooctadecane	53.2		mg/kg	50.0		106	49.1-148		

**LCS Dup (3091227-BS1)**

Prepared: 12-Sep-23 Analyzed: 13-Sep-23

GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123	3.33	17.7
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118	0.419	21
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123	1.87	18.5
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	48.2-134		
Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	49.1-148		

**Batch 3091303 - General Prep - Organics****Blank (3091303-BLK1)**

Prepared &amp; Analyzed: 13-Sep-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		92.1	48.2-134		
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	49.1-148		

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**Analytical Results For:**

NTG ENVIRONMENTAL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: ANTLER 17 IBS 002  
Project Number: NONE GIVEN  
Project Manager: BECKY HASKELL  
Fax To:

Reported:  
19-Sep-23 10:00

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3091303 - General Prep - Organics****LCS (3091303-BS1)**

Prepared &amp; Analyzed: 13-Sep-23

GRO C6-C10	175	10.0	mg/kg	200		87.5	66.4-123			
DRO >C10-C28	198	10.0	mg/kg	200		98.8	66.5-118			
Total TPH C6-C28	373	10.0	mg/kg	400		93.1	77.6-123			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	61.1		mg/kg	50.0		122	49.1-148			

**LCS Dup (3091303-BS1)**

Prepared &amp; Analyzed: 13-Sep-23

GRO C6-C10	181	10.0	mg/kg	200		90.6	66.4-123	3.56	17.7	
DRO >C10-C28	205	10.0	mg/kg	200		102	66.5-118	3.47	21	
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	77.6-123	3.51	18.5	
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.5	48.2-134			
Surrogate: 1-Chlorooctadecane	55.2		mg/kg	50.0		110	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

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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

<b>Company Name:</b> NTE <b>Project Manager:</b> Betty Haskel <b>Address:</b> 209 W. McKay St <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 505 924 8056 <b>Fax #:</b> <b>Project #:</b> <b>Project Name:</b> Antler 17 #185 002 <b>Project Location:</b> Lea County <b>Sampler Name:</b> Cyley Kumbak <b>FOR LAB USE ONLY</b>		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>		
<b>Lab I.D.</b> 1834923 1834923 1834923 1834923 1834923 1834923	<b>Sample I.D.</b> CS-1 (2') CS-2 (2') CS-3 (3') SW-1 (0-2') SW-2 (0-2') SW-3 (0-2') SW-4 (0-3') SW-5 (2-3')	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE 9/12 TIME 10:00 10:05 10:10 10:15 10:20 10:25 10:30 10:35	Chlorides TPH BTEX		
<b>Relinquished By:</b> [Signature] <b>Date:</b> 9-12 <b>Time:</b> 1:08 <b>Received By:</b> [Signature] <b>Date:</b> 9/12/23 <b>Time:</b> 13:20		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Email address:		<b>REMARKS:</b>		
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other: <b>Observed Temp. °C:</b> 21.2 <b>Corrected Temp. °C:</b>		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>CHECKED BY:</b> (Initials) [Signature] <b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID #140</b> <b>Correction Factor 0°C</b>		

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

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**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 278556

CONDITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 278556
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	12/28/2023