



209 W. McKay Street  
Carlsbad, New Mexico 88220  
Tel. 432-701-2159  
www.ntgenvironmental.com

February 2, 2024

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

**Re:    Deferral Request and Closure Report**  
      **Sirius 17 Fed 3H Battery**  
      **Unit L, S17, T19S, R31E**  
      **Site Coordinates: 32.65865084, -103.8988289**  
      **Eddy County, New Mexico**  
      **Incident ID: nAPP2321431668**

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this deferral and closure report to document site assessment, remedial action, and sampling activities at the Sirius 17 Fed 3H Battery (Site) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 2 Office in Artesia, New Mexico. The Site is located in Unit L, Section 17, Township 19 South of Range 31 East in Eddy County, New Mexico. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

### **Background**

Based on the initial C-141 obtained from the NMOCD, the release was discovered on August 1<sup>st</sup>, 2023, the result of an equipment failure in a transfer line. Approximately twenty-one hundredths (0.21) of a barrel (bbls) of produced water was released of which zero (0) bbls were recovered for an approximate net loss of twenty-one hundredths (0.21) bbls of produced water and it should be noted a small portion of the release went offsite. Upon discovery, the line was clamped to stop the leak. The release area is shown on Figure 3. The initial assessment and closure C-141 form is attached.

### **Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one (1) well located within a ½-mile radius of the site. The well (CP-01907-POD1) is located approximately 2,600 feet north to northwest of the release and was drilled to a reported depth of 55 feet below ground surface (ft bgs) with no groundwater encountered. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a medium Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in this report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the

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New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

**General Site Characterization and Groundwater:**

Site Characterization	Average Groundwater Depth (ft)
Medium Karst	>55

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

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+DRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release (>4 Feet)	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

**Site Assessment**

On September 12<sup>th</sup>, 2023, NTGE conducted site assessment activities to assess the extent of impacts at the Site. A total of two (2) vertical sample points (V-1 and V-2) and four (4) horizontal sample points (H-1 through H-4) were installed within the release area in order to characterize the impact. Soil samples were collected in 0.5 ft and 1 ft intervals from depths ranging from 0.5 ft to a maximum of 5.5 ft bgs with a geotechnical hand auger. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8261B, total petroleum hydrocarbon (TPH) by method 8015B Modified, and chloride by EPA 4500 Cl-B by Cardinal Laboratories in Hobbs, New Mexico. The analytical results indicated that areas of V-1 at a depth of five and a half (5.5) ft bgs exceeded chloride concentrations set forth in NMOCD regulations while V-2 exceeded chloride NMOCD standards to a depth of three (3) ft bgs.

On October 16<sup>th</sup>, 2023, NTGE conducted additional Site assessment activities to complete the delineation of impacts at the Site. A total of one (1) vertical sample (V-1) and four (4) horizontal samples points (H-1, H1-A, H-4 and H-4A) were installed within the release area to characterize the impact. Soil samples were collected 0.5 and 1 ft intervals from depths ranging from 0.5 ft to a maximum of 8.0 ft bgs with mechanical equipment. The samples were analyzed for BTEX, TPH and chloride by Cardinal Laboratories in Hobbs, New Mexico. Analytical results are included in Table 1, while sampling locations are shown in Figure 3.

**Remedial Action Activities and Confirmation/Deferral Sampling**

Based on the analytical results, Devon proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The areas of V-1 and V-2 were excavated to a depth ranging from four (4) ft bgs to six (6) ft bgs to fully remove all impacted soils from the location.

On December 11<sup>th</sup>, 2023, a total of six (6) composite confirmation samples were collected from the excavation base (CS-1 through CS-6) and seven (7) composite confirmation samples were collected from the excavation sidewalls (SW-1 through SW-7) to ensure impacted soil was removed. Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. Soil samples were

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collected and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached. The confirmation samples were collected every 200 square feet and analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (method SM4500Cl-B). Following receipt of lab analytics, analytical results indicated that multiple composite confirmation excavation base and side wall samples (CS-3, CS-5 CS-6, SW-4, SW-6, SW-7, and SW-11) were above NMOCD regulatory criterion for chloride and/or TPH concentrations. Devon continued the excavation both horizontally and vertically based on the laboratory results of confirmation samples to ensure all impacted soils are removed.

After further excavation, on December 19<sup>th</sup>, 2023, NTGE collected additional confirmation samples from the excavation base at 6 ft bgs and from the excavation sidewalls. A total of two (2) base composite confirmation samples (CS-3, and CS-6) and five (5) sidewall composite samples (SW-4A, SW-6A, SW-8 to SW-10) were collected and analyzed for TPH, BTEX, and chlorides by Cardinal in Hobbs, New Mexico. Analytical results indicated that two (2) sidewalls (SW-4A, and SW-6A) exceeded chloride concentrations set forth in NMOCD regulations. All other confirmation samples collected were below NMOCD regulatory criterion for the Site.

After further excavation, NTGE was on Site on January 8<sup>th</sup>, 2024, to collect one (1) base composite confirmation sample (CS-5) and three (3) sidewall composite samples (SW-4B, SW-6B, and SW-11). Samples were delivered to Cardinal Laboratories in Hobbs, New Mexico for the analysis of BTEX, TPH, and chlorides. Analytical results indicated that one (1) base samples (CS-5 at 4 ft bgs) and one (1) sidewall sample (SW-11) exceeded chloride concentrations set forth in NMOCD regulations. All other confirmation samples collected were below NMOCD regulatory criterion for the Site.

After further excavation, NTGE was on Site January 17<sup>th</sup>, 2024, to collect two (2) confirmation samples (CS-5 and CS-7) and four (4) confirmation sidewall samples (SW-10A, SW-11A, SW-12, and SW-13) and were submitted to Cardinal Laboratories in Hobbs, New Mexico for the analysis of BTEX, TPH, and chlorides. Analytical results indicated that concentrations for all analytes were below NMOCD regulatory criterion for the Site.

On January 31<sup>st</sup>, 2024, NTGE was on Site to collect one vertical deferral sample (VD-1) near sample SW-7. Samples were collected from surface to three (3) ft bgs at one (1) foot intervals and submitted to Lab for analysis of TPH, BTEX, and chloride. The sample results indicated that the chlorides were delineated to a depth of 2 to 3 ft bgs. The final excavation extent and confirmation sample locations are shown on Figure 4, while Figure 5 Details the location of the deferral sample. Analytical results of all confirmation/deferral samples are included in Table 2 with laboratory reports attached.

### **Deferral and Closure Request**

Devon personnel have expressed that the excavation area adjacent to SW-7 cannot be expanded horizontally due to the presence of facility infrastructure (i.e., separators, tanks and adjacent flowlines and electrical lines, etc.) around the excavation and the associated safety concerns without encroaching and destabilizing the infrastructure. The infrastructure in and around the excavation is shown on Figure 5.

With the vertical samples VD-1 delineating the area adjacent to SW-7, NTGE formally requests a closure/deferral for incident nAPP2321431668 to address the remaining soil impacts (SW-7) at the time of facility decommissioning or when infrastructure modifications are made in the area that would alleviate the safety concerns, whichever is sooner. Should the deferral request be granted, a remedial

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action report documenting excavation expansion and confirmation sampling activities will be prepared and filed following completion of future work. The release notification, site assessment/characterization, remediation plan, and closure/deferral portion of form C-141 are attached to the front of this report.

If you have any questions regarding this report or need additional information, please contact us at 432-701- 2159.

Sincerely,  
**NTG Environmental**



Ethan Sessums  
Project Manager

Attachments:

- Initial And Final C-141
- Site Characterization Information
- Tables
- Figures
- Photographic Log
- Laboratory Reports and Chain-of-Custody



## **INITIAL AND FINAL C-141**

---

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input 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

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

## Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date: _____
email: dale.woodall@dv.com	Telephone: 575-748-1838
<b><u>OCD Only</u></b>	
Received by: Shelly Wells	Date: 8/22/2023

Sirius 17 Fed 3H Battery

8/1/2023

OCD incident nAPP2321431668

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
<b>Contaminated Soil measurement</b>	
Area (square feet)	Depth(inches)
<u>753.235</u>	<u>0.125</u>
Cubic Feet of Soil Impacted	<u>7.846</u>
Barrels of Soil Impacted	<u>1.40</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>0.21</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>0.21</u>
<b>Free Standing Fluid Only</b>	
Area (square feet)	Depth(inches)
<u>0</u>	<u>0.000</u>
Standing fluid	<u>0.000</u>
<b>Total fluids spilled</b>	<b><u>0.210</u></b>

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**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 255598

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 255598
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/22/2023

Incident ID	
District RP	
Facility ID	
Application ID	

## 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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input 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	
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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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## **SITE CHARACTERIZATION INFORMATION**




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# SIRIUS 17 FED 3H BATTERY

OSE Pod locations map

## Legend

-  0.5 Mile radius
-  CP-01907-POD1 (DTW >55 feet)
-  SIRIUS 17 FED 3H BATTERY

CP-01907-POD1 (DTW >55 feet)

SIRIUS 17 FED 3H BATTERY

Enterprise Products Chaparral Cryo Plant

Google Earth

2000 ft





# OSE POD Locations Map



8/2/2023, 2:41:37 PM

- Override 1

OSE District Boundary

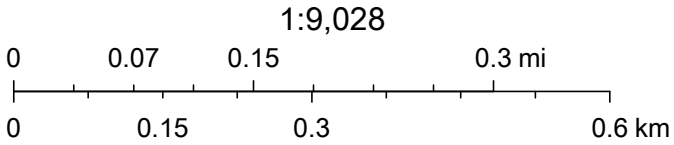
Connector
- GIS WATERS PODs

NHD Flowlines

Stream River
- Active

Artificial Path

SiteBoundaries



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





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


[www.ose.state.nm.us](http://www.ose.state.nm.us)

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

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. CP-1907-POD1 TW-1	POD NO. 1	TRN NO. 726167
LOCATION 19.31.18.422	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <b>(attach supplemental sheets to fully describe all units)</b>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
<b>4. HYDROGEOLOGIC LOG OF WELL</b>	0	29	29	Sand, Medium/ Fine grained, poorly graded, Light brown	Y    ✓ N		
	29	44	15	Sand, Medium/ Fine grained, poorly graded, with caliche Light brown / white	Y    ✓ N		
	44	55	11	Sand, Medium/ Fine grained, poorly graded, Light brown	Y    ✓ N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	<b>5. TEST; RIG SUPERVISION</b>	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. <div style="text-align: right;">USE DTI AUG 11, 2022 PM 3:11</div>							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt							
<b>6. SIGNATURE</b>	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME			Jackie D. Atkins _____ DATE			

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	CP-1907-PODI TW-1	POD NO.	1
		TRN NO.	726167
LOCATION	19.31.18.432	WELL TAG ID NO.	
		PAGE 2 OF 2	

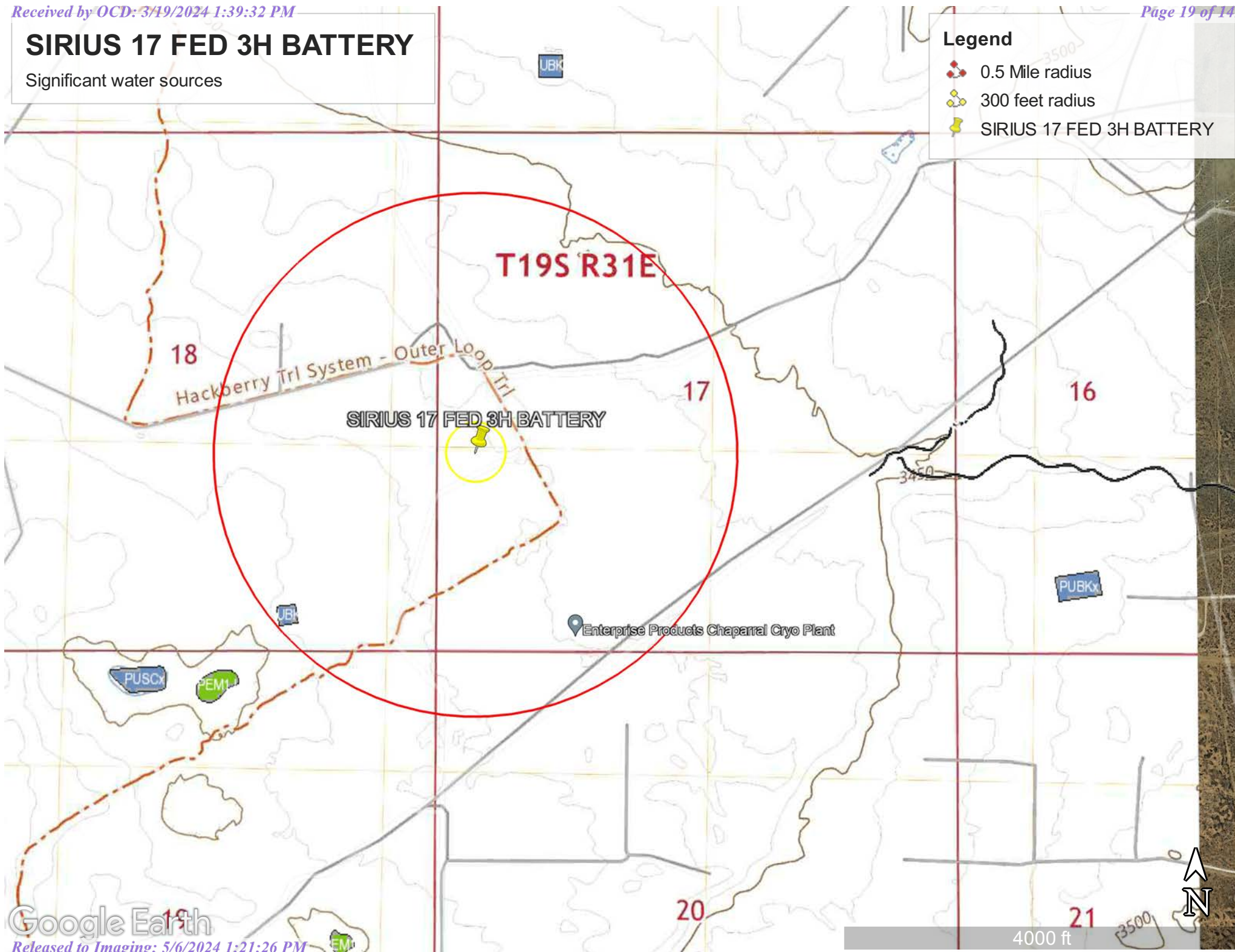


# SIRIUS 17 FED 3H BATTERY

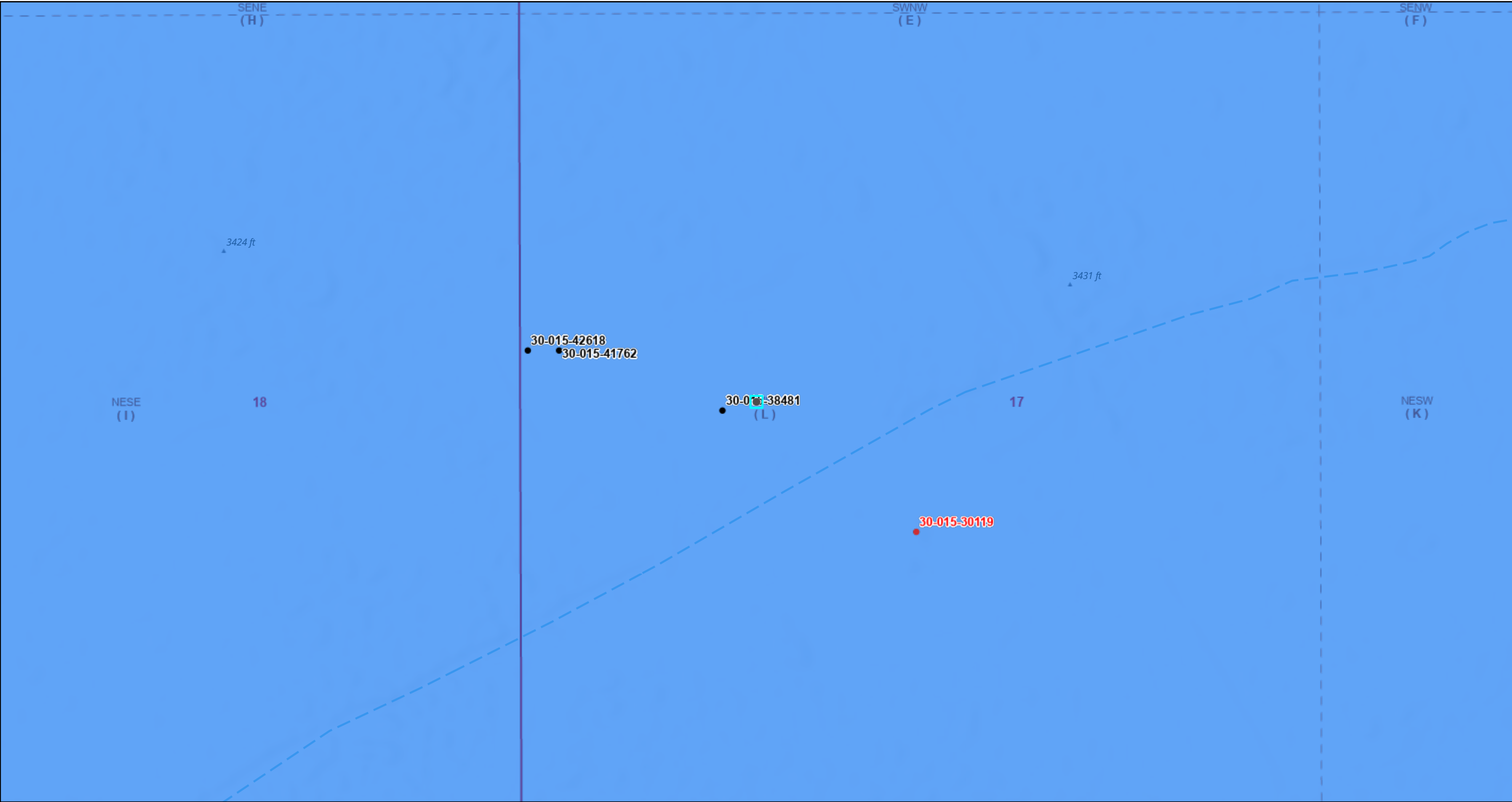
Significant water sources

## Legend

- 0.5 Mile radius
- 300 feet radius
- SIRIUS 17 FED 3H BATTERY



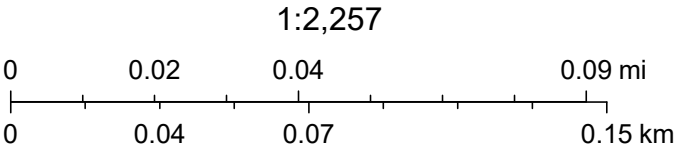
# Karst Potential Map



1/31/2024, 9:59:39 AM

Wells - Large Scale Karst Occurrence Potential

- Oil, Active
- Oil, Plugged
- Medium
- PLSS First Division
- PLSS Second Division



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





## SIRIUS 17 FED 3H BATTERY



August 2, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



# National Flood Hazard Layer FIRMette



103°54'15"W 32°39'46"N



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

1:6,000

103°53'37"W 32°39'16"N

Released to Imaging: 5/6/2024 1:21:26 PM

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 X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/2/2023 at 4:53 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.



## **TABLES**

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**Table 1**  
**Summary of Soil Analytical Data - Delineation Samples**  
**Sirius 17 Fed 3H Battery**  
**Devon Energy Production Company**  
**Eddy 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 (C6-C28)	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 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg
Vertical Delineation Samples													
V-1	9/12/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,060
	9/12/2023	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,460
	9/12/2023	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,000
	9/12/2023	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,860
	9/12/2023	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	15,400
	9/12/2023	5-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	14,800
	10/16/2023	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	10/16/2023	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	10/16/2023	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	10/16/2023	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
V-2	9/12/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,400
	9/12/2023	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,650
	9/12/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
	9/12/2023	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
	9/12/2023	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
	9/12/2023	5-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
Horizontal Delineation Samples													
H-1	9/12/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624.0
	10/16/2023	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	10/16/2023	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	10/16/2023	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	10/16/2023	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
H-1A	10/16/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-2	9/12/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416.0
H-3	9/12/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480.0
H-4	9/12/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	143	143	58	201	160
	10/16/2023	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1940	1940	553	2493	96.0
	10/16/2023	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1450	1450	438	1888	528
	10/16/2023	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	726	726	199	925	336.0
	10/16/2023	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1140	1140	287	1427	288
H-4A	10/16/2023	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144

## Notes:

1. Values reported in mg/kg
2. < = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

SP-1 Sample Point Excavated

Table 2  
Summary of Soil Analytical Data - Confirmation Samples  
Sirius 17 Fed 3H Battery  
Devon Energy Production Company  
Eddy 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 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg
Base Confirmation Samples													
CS-1	12/11/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-2	12/11/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
CS-3	<del>12/11/2023</del>	<del>3'</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>24,800</del>
	12/19/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
CS-4	12/11/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
CS-5	<del>12/11/2023</del>	<del>3'</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>12.3</del>	<del>12.3</del>	<del>&lt;10.0</del>	<del>12.3</del>	<del>9,600</del>
	<del>1/8/2024</del>	<del>4</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>28,000</del>
	1/17/2024	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-6	<del>12/11/2023</del>	<del>3'</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>13,800</del>
	12/19/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
CS-7	1/17/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
Sidewall Confirmation Samples													
SW-1	12/11/2023	(0-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.3	13.3	<10.0	13.3	32.0
SW-2	12/11/2023	(0-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-3	12/11/2023	(0-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-4	<del>12/11/2023</del>	<del>(3-6')</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>12.5</del>	<del>12.5</del>	<del>&lt;10.0</del>	<del>12.5</del>	<del>14,600</del>
SW-4A	<del>12/19/2023</del>	<del>(3-6')</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>10400</del>
SW-4B	1/8/2024	(3-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
SW-5	12/11/2023	(0-3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-6	<del>12/11/2023</del>	<del>(0-3')</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>3,320</del>
SW-6A	<del>12/19/2023</del>	<del>(0-4')</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>12000</del>
SW-6B	1/8/2024	(0-4')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-7	12/11/2023	(0-3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	23,600
SW-8	12/19/2023	(3-4')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-9	12/19/2023	(3-4')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-10	<del>12/19/2023</del>	<del>(3-4')</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>576</del>
SW-10A	1/17/2024	(4-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW-11	<del>1/8/2024</del>	<del>(0-4')</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>&lt;10.0</del>	<del>14400</del>
SW-11A	1/17/2024	(0-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-12	1/17/2024	(3-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW-13	1/17/2024	(0-6')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16

**Table 2**  
**Summary of Soil Analytical Data - Confirmation Samples**  
**Sirius 17 Fed 3H Battery**  
**Devon Energy Production Company**  
**Eddy 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 (C6-C28)	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 51-100 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg		10,000 mg/kg
Deferral Samples														
VD-1	1/31/2024	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304	
	1/31/2024	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800	
	1/31/2024	2-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560	

## 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  

SP-1

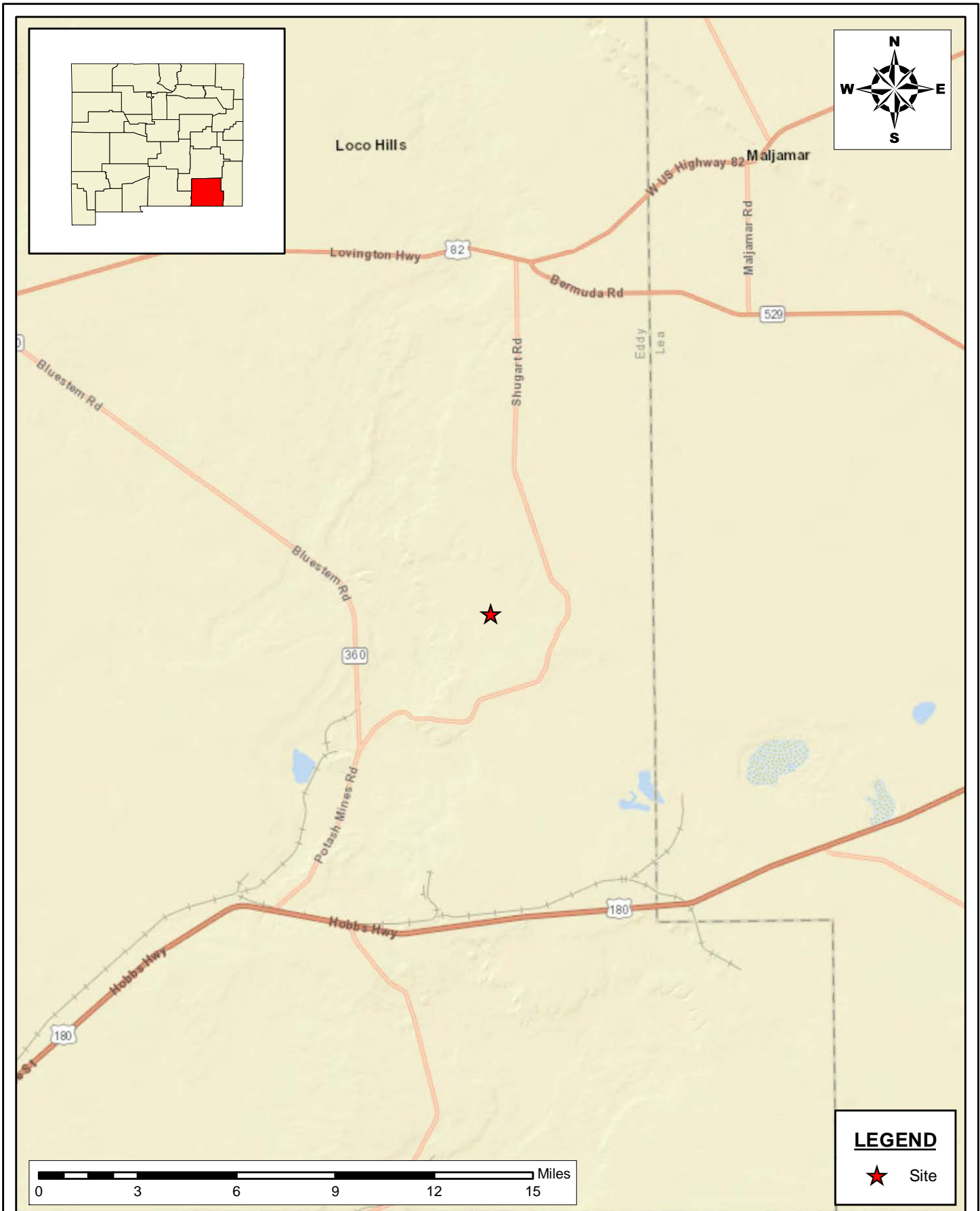
 Sample Point Excavated

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

## **FIGURES**

---

Document Path: P:\2023 PROJECTS\DEVON\SC1237676-Sirius 17 Fed 3 Battery\7- Figures\GIS\Figure\_1\_SLMxd



SITE LOCATION MAP  
DEFERRAL REQUEST AND CLOSURE REPORT  
SIRIUS 17 FED 3H BATTERY  
DEVON ENERGY PRODUCTION CORPORATION EDDY  
COUNTY, NEW MEXICO

SCALE: As Shown

Date: 8/4/2023

PROJECT #: 237676



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

**NOTES:**

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

DRAWING NUMBER:

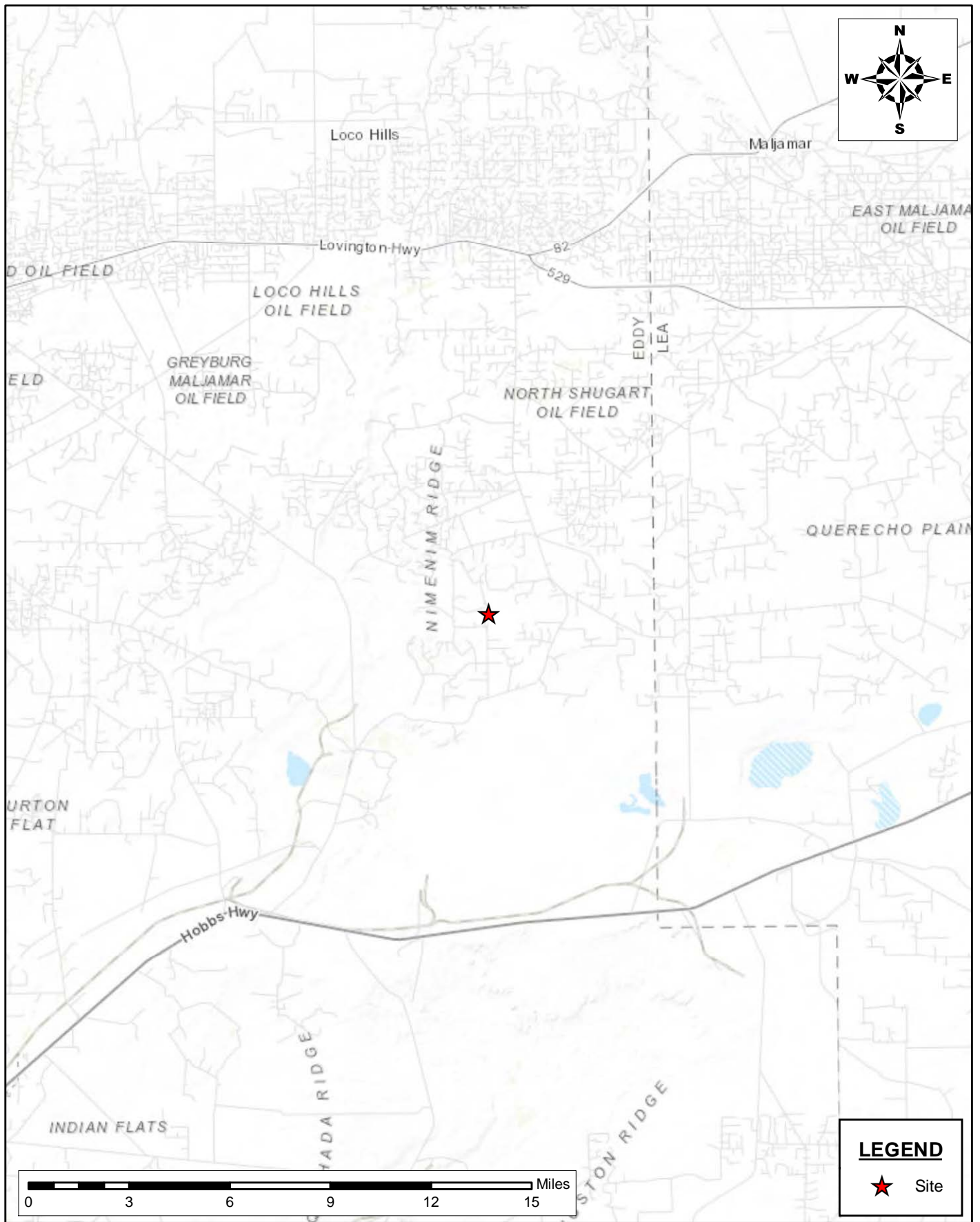
**FIGURE 1**

SHEET NUMBER:

**1 of 1**



Document Path: P:\2023 PROJECTS\DEVON\SC1237676-Sirius 17 Fed 3 Battery\7- Figures\GIS\Figure\_2\_TM.mxd



TOPOGRAPHIC MAP  
DEFERRAL REQUEST AND CLOSURE REPORT  
SIRIUS 17 FED 3H BATTERY  
DEVON ENERGY PRODUCTION CORPORATION EDDY  
COUNTY, NEW MEXICO

SCALE: As Shown    Date: 8/4/2023    PROJECT #: 237676

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

**NOTES:**

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

DRAWING NUMBER:

**FIGURE 2**

SHEET NUMBER:

**1 of 1**

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\2023 PROJECTS\DEVON\RSC\237676 - Sirius 17 Fed 3 Battery\7-Figures\GIS\Figure\_3\_Closure Map.mxd



**LEGEND**

- Vertical Sample
- Horizontal Sample
- Area of Concern

INITIAL SAMPLE MAP  
DEFERRAL REQUEST AND CLOSURE REPORT  
DEVON ENERGY PRODUCTION CORPORATION SIRIUS  
17 FED 3H BATTERY  
EDDY COUNTY, NEW MEXICO

SCALE: AS SHOWN	DATE: 11/15/2023	PROJECT #: 237676
-----------------	------------------	-------------------

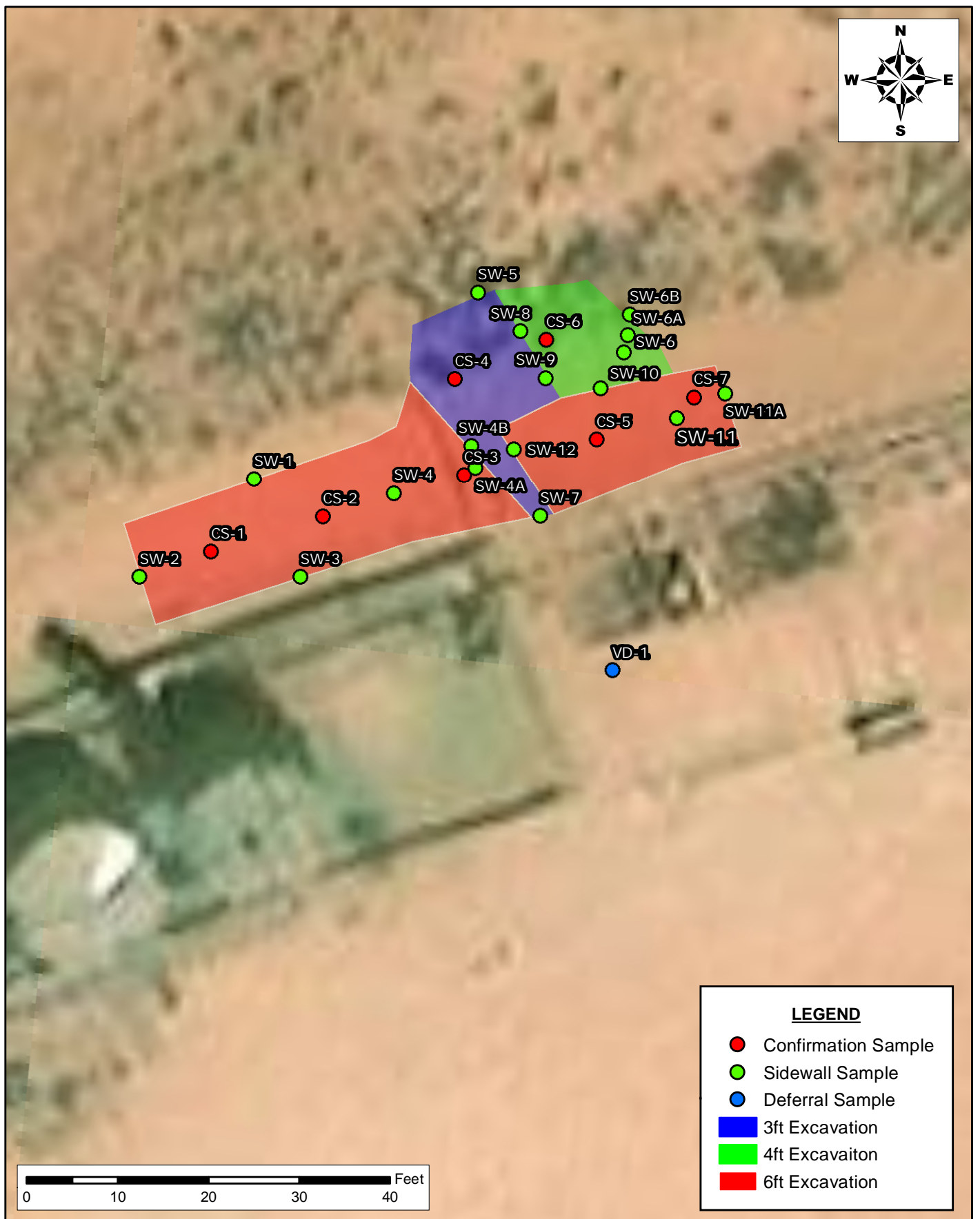
  
**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

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

DRAWING NUMBER:  
**FIGURE 3**  
SHEET NUMBER:  
**1 of 1**



Document Path: C:\Users\ntge\Documents\2024 PROJECTS\DEVON\NRC\237676 - Sirius 17 Fed 3 Battery\7 - Figures\GIS\Figure 4.mxd



CONFIRMATION SAMPLE MAP  
DEFERRAL REQUEST AND CLOSURE REPORT  
SIRIUS 17 FED 3H BATTERY  
DEVON ENERGY PRODUCTION COMPANY  
EDDY COUNTY, NEW MEXICO

SCALE: AS SHOWN    DATE: 02/01/2024    PROJECT #: 237676



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

**NOTES:**

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

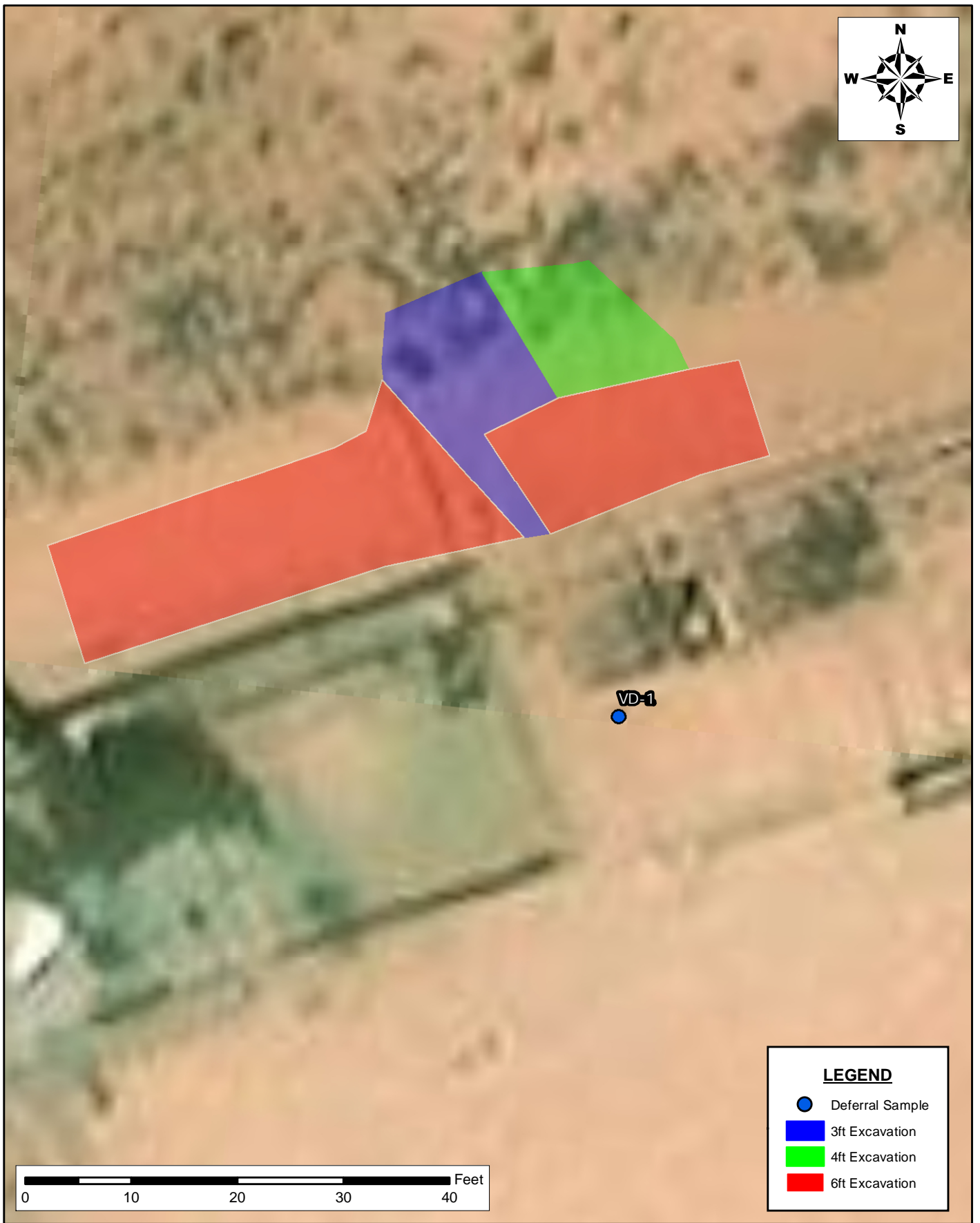
DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

**1 of 1**

Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\2024 PROJECTS\DEVON\NRC\237676 - Sirius 17 Fed 3 Battery\7 - Figures\GIS\Figure 5.mxd



DEFERRAL SAMPLE MAP  
DEFERRAL REQUEST AND CLOSURE REPORT  
SIRIUS 17 FED 3H BATTERY  
DEVON ENERGY PRODUCTION COMPANY  
EDDY COUNTY, NEW MEXICO



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

**NOTES:**

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

DRAWING NUMBER:

**FIGURE 5**

SHEET NUMBER:

**1 of 1**

SCALE: AS SHOWN    DATE: 02/01/2024    PROJECT #: 237676

## **PHOTOGRAPHIC LOG**

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## PHOTOGRAPHIC LOG

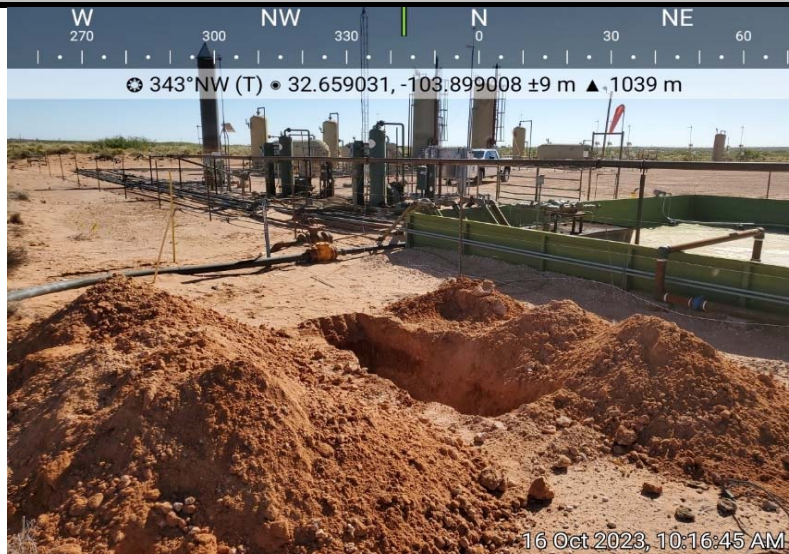
### Devon Energy Production Company

**Photograph No. 1**

**Facility:** Sirius 17 Fed 3H Battery

**County:** Eddy County, New Mexico

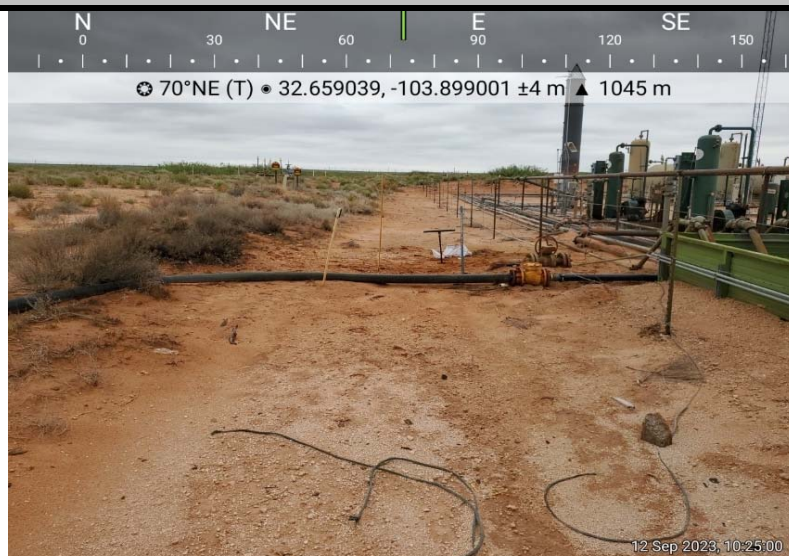
**Description:**  
View of the release.

**Photograph No. 2**

**Facility:** Sirius 17 Fed 3H Battery

**County:** Eddy County, New Mexico

**Description:**  
View of the release.

**Photograph No. 3**

**Facility:** Sirius 17 Fed 3H Battery

**County:** Eddy County, New Mexico

**Description:**  
View of the release.





# PHOTOGRAPHIC LOG

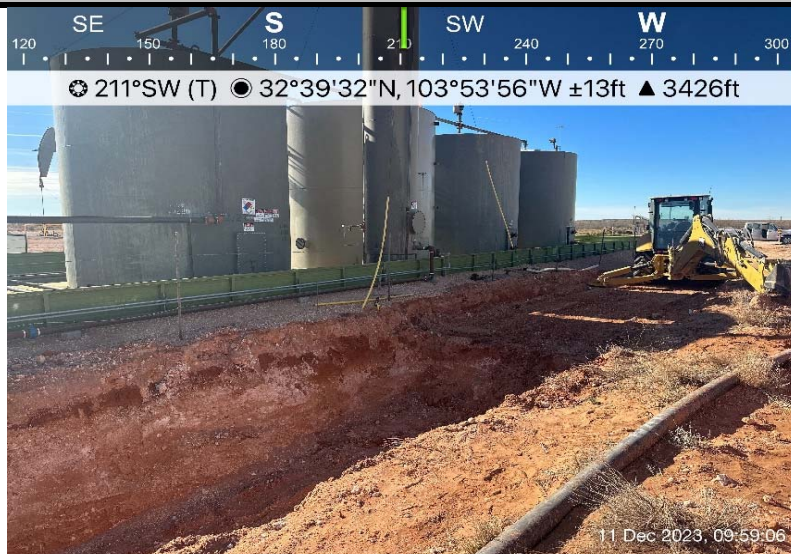
## Devon Energy Production Company

**Photograph No. 4**

**Facility:** Sirius 17 Fed 3H Battery

**County:** Eddy County, New Mexico

**Description:**  
View of Excavation

**Photograph No. 5**

**Facility:** Sirius 17 Fed 3H Battery

**County:** Eddy County, New Mexico

**Description:**  
View of Excavation.

**Photograph No. 6**

**Facility:** Sirius 17 Fed 3H Battery

**County:** Eddy County, New Mexico

**Description:**  
Excavation After Backfill.



## **LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS**





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

September 18, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS FED 17-3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/12/23 14:15.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 ( 0-6" ) (H234929-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/15/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	9060	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 ( 1-1.5' ) (H234929-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEX	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	9460	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 ( 2-2.5' ) (H234929-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEX	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 ( 3-3.5' ) (H234929-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	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	7860	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 ( 4-4.5' ) (H234929-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	15400	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 ( 5-5.5' ) (H234929-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14800	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 ( 0-6" ) (H234929-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEX	<0.300	0.300	09/15/2023	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	12400	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 ( 1-1.5' ) (H234929-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	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	1650	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 ( 2-2.5' ) (H234929-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	09/14/2023	ND	432	108	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	09/13/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 ( 3-3.5' ) (H234929-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	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	160	16.0	09/14/2023	ND	432	108	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	09/14/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 ( 4-4.5' ) (H234929-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	80.0	16.0	09/14/2023	ND	432	108	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	09/14/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 ( 5-5.5' ) (H234929-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/14/2023	ND	432	108	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	09/14/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: H 1 ( 0-6" ) (H234929-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEX	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	624	16.0	09/14/2023	ND	432	108	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	09/14/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: H 2 ( 0-6" ) (H234929-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	416	16.0	09/14/2023	ND	432	108	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	09/14/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: H 3 ( 0-6" ) (H234929-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEx	<0.300	0.300	09/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	480	16.0	09/14/2023	ND	432	108	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	09/14/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/12/2023  
 Reported: 09/18/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 09/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: H 4 ( 0-6" ) (H234929-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2023	ND	1.93	96.6	2.00	2.23		
Toluene*	<0.050	0.050	09/15/2023	ND	2.03	101	2.00	3.59		
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.04	102	2.00	1.55		
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.09	101	6.00	1.67		
Total BTEX	<0.300	0.300	09/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/14/2023	ND	432	108	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	09/14/2023	ND	182	90.9	200	1.06	
DRO >C10-C28*	143	10.0	09/14/2023	ND	193	96.3	200	1.51	
EXT DRO >C28-C36	58.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1/2

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 212

BILL TO

ANALYSIS REQUEST

Company Name:

Project Manager:

Address:

City:

Phone #:

Project #:

Project Name:

Project Location:

Sampler Name:

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

H234929

11 V12  
12 V12  
13 H11  
14 H12  
15 H13  
16 H14

(4-4.5)  
(5-5.5)  
(0-6.1)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE  
TIME

9/11/23

x

x

x

PPH

BTEX

CHLORIDE

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October 20, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS FED 17-3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/16/23 12:23.

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



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

**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V 1 (5') (H235621-01)**

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	10/17/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97		
Total BTEX	<0.300	0.300	10/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2023	ND	174	86.9	200	1.85	
DRO >C10-C28*	<10.0	10.0	10/17/2023	ND	168	83.8	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	10/17/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V 1 (6') (H235621-02)**

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	10/17/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97		
Total BTEX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	167	83.5	200	0.485	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V 1 (7') (H235621-03)**

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	10/17/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97		
Total BTEX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	167	83.5	200	0.485	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: V 1 (8') (H235621-04)**

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	10/17/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97		
Total BTEx	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	167	83.5	200	0.485	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 1 (1-1.5') (H235621-05)**

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	10/17/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97		
Total BTEx	<0.300	0.300	10/17/2023	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	32.0	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	167	83.5	200	0.485	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 1 (2-2.5') (H235621-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.92	96.2	2.00	0.296		
Toluene*	<0.050	0.050	10/16/2023	ND	1.99	99.3	2.00	0.577		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.01	100	2.00	0.636		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.99	99.8	6.00	1.45		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	167	83.5	200	0.485	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 1 (3-3.5') (H235621-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.92	96.2	2.00	0.296		
Toluene*	<0.050	0.050	10/16/2023	ND	1.99	99.3	2.00	0.577		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.01	100	2.00	0.636		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.99	99.8	6.00	1.45		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	167	83.5	200	0.485	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 1 (4-4.5') (H235621-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.92	96.2	2.00	0.296		
Toluene*	<0.050	0.050	10/16/2023	ND	1.99	99.3	2.00	0.577		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.01	100	2.00	0.636		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.99	99.8	6.00	1.45		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	80.0	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	177	88.3	200	5.27	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	154	77.2	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 4 (1-1.5') (H235621-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.92	96.2	2.00	0.296		
Toluene*	<0.050	0.050	10/16/2023	ND	1.99	99.3	2.00	0.577		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.01	100	2.00	0.636		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.99	99.8	6.00	1.45		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	96.0	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2023	ND	177	88.3	200	5.27	
DRO >C10-C28*	1940	10.0	10/17/2023	ND	154	77.2	200	3.05	
EXT DRO >C28-C36	553	10.0	10/17/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 4 (2-2.5') (H235621-10)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.92	96.2	2.00	0.296		
Toluene*	<0.050	0.050	10/16/2023	ND	1.99	99.3	2.00	0.577		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.01	100	2.00	0.636		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.99	99.8	6.00	1.45		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	528	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2023	ND	177	88.3	200	5.27	
DRO >C10-C28*	1450	10.0	10/17/2023	ND	154	77.2	200	3.05	
EXT DRO >C28-C36	438	10.0	10/17/2023	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 4 (3-3.5') (H235621-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.92	96.2	2.00	0.296		
Toluene*	<0.050	0.050	10/16/2023	ND	1.99	99.3	2.00	0.577		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.01	100	2.00	0.636		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.99	99.8	6.00	1.45		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	336	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2023	ND	177	88.3	200	5.27	
DRO >C10-C28*	726	10.0	10/17/2023	ND	154	77.2	200	3.05	
EXT DRO >C28-C36	199	10.0	10/17/2023	ND					

Surrogate: 1-Chlorooctane 64.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H 4 (4-4.5') (H235621-12)**

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	10/17/2023	ND	1.84	91.8	2.00	2.37		
Toluene*	<0.050	0.050	10/17/2023	ND	1.75	87.5	2.00	1.05		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.77	88.7	2.00	1.12		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.27	87.8	6.00	1.22		
Total BTEx	<0.300	0.300	10/17/2023	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	288	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2023	ND	177	88.3	200	5.27	
DRO >C10-C28*	1140	10.0	10/17/2023	ND	154	77.2	200	3.05	
EXT DRO >C28-C36	287	10.0	10/17/2023	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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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

Page 112

Company Name: <u>NTGE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Ethan Sessums</u>				P.O. #: <u>21205968</u>				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TAP</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CAPLORIDE</div> </div>											
Address: <u>209 W McKay St</u>				Company: <u>Dekon</u>															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Dele Woodell</u>															
Phone #: _____ Fax #: _____				Address: _____															
Project #: <u>237676</u> Project Owner: _____				City: _____															
Project Name: <u>Sirius 17 Fed 3H Battery</u>				State: _____ Zip: _____															
Project Location: <u>Leg Co NM</u>				Phone #: _____															
Sampler Name: <u>Dmitry Mikunov, Clayton Thomas</u>				Fax #: _____															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING									
						GROUNDWATER		ACID/BASE:		DATE		TIME							
						WASTEWATER		ICE / COOL											
						SOIL		OTHER:											
						OIL													
						SLUDGE													
						OTHER:													
1		V1 (5')		1		X		X		10/16									
2		I (6')																	
3		I (7')																	
4		I (8')																	
5		H1 dn 1-1.5'																	
6		I dn 2-2.5'																	
7		I dn 3-3.5'																	
8		I dn 4-4.5'																	
9		H4 dn 1-1.5'																	
10		H4 dn 2-2.5'																	

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Relinquished By: <u>[Signature]</u>		Date: <u>10-16-23</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:		Received By:		All Results are emailed. Please provide Email address:	
Time:		Time:		Time:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C <u>-0.6</u>		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
				Yes <input type="checkbox"/> No <input type="checkbox"/>		Thermometer ID #140	
				Yes <input type="checkbox"/> No <input type="checkbox"/>		Correction Factor 0°C	
				Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Observed Temp. °C	
				Yes <input type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C	

FORM-006 R 3.4 07/11/23

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

page 2/2

Page 16 of 16

Company Name: <u>NTGE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: <u>Ethan Sessums</u>				P.O. #: <u>212 05968</u>																	
Address: <u>209 W McKay St</u>				Company: <u>DeVon</u>																	
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Dale Woodell</u>																	
Phone #: _____ Fax #: _____				Address: _____																	
Project #: <u>237676</u> Project Owner: _____				City: _____																	
Project Name: <u>Sirius 17 Fed 3H Battery</u>				State: _____ Zip: _____				<div style="display: flex; justify-content: space-around; font-size: 2em;"> <span>BTEX</span> <span>TAP</span> <span>CHLORIDE</span> </div>													
Project Location: <u>Leg Co NM</u>				Phone #: _____																	
Sampler Name: <u>Dmitry Mikheyev</u>				Fax #: _____																	
FOR LAB USE ONLY		Sample I.D.		MATRIX		PRESERV.		SAMPLING													
H235621				GROUNDWATER		✓															
Lab I.D.				WASTEWATER																	
				SOIL																	
				OIL																	
				SLUDGE																	
				OTHER:																	
				ACID/BASE:																	
				ICE / COOL																	
				OTHER:																	
				DATE		TIME															
				10/16																	

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Relinquished By: <u>[Signature]</u>		Date: <u>10-16-23</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____	
Relinquished By: _____		Time: <u>12:23</u>		Received By: _____		All Results are emailed. Please provide Email address: _____		REMARKS: _____	
Delivered By: (Circle One)		Observed Temp. °C: <u>0.60</u>		Sample Condition		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other: _____		Corrected Temp. °C: _____		Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		Thermometer ID #140		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
				Yes <input type="checkbox"/> No <input type="checkbox"/>		Correction Factor 0°C		Observed Temp. °C	
				Yes <input type="checkbox"/> No <input type="checkbox"/>				Corrected Temp. °C	

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

October 20, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS FED 17-3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/16/23 12:23.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H1 A ( 0-6" ) (H235622-01)**

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	10/17/2023	ND	1.84	91.8	2.00	2.37		
Toluene*	<0.050	0.050	10/17/2023	ND	1.75	87.5	2.00	1.05		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.77	88.7	2.00	1.12		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.27	87.8	6.00	1.22		
Total BTEX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	177	88.3	200	5.27	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	154	77.2	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/16/2023  
 Reported: 10/20/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - LEA CO., NM

Sampling Date: 10/16/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: H4 A ( 0-6" ) (H235622-02)**

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	10/17/2023	ND	1.84	91.8	2.00	2.37		
Toluene*	<0.050	0.050	10/17/2023	ND	1.75	87.5	2.00	1.05		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.77	88.7	2.00	1.12		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.27	87.8	6.00	1.22		
Total BTEx	<0.300	0.300	10/17/2023	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	144	16.0	10/17/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	177	88.3	200	5.27	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	154	77.2	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 66.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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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

Page 1/1

Company Name: <u>NTGE</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																	
Project Manager: <u>Ethan Sessums</u>		P.O. #: <u>21205968</u>		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CAPLORIDE</div> </div>																																	
Address: <u>209 W McKay St</u>		Company: <u>Dakon</u>																																			
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>		Attn: <u>Dale Woodell</u>																																			
Phone #: _____ Fax #: _____		Address: _____																																			
Project #: <u>237676</u> Project Owner: _____		City: _____																																			
Project Name: <u>Sirius 17 Fed 3rd Battery</u>		State: _____ Zip: _____																																			
Project Location: <u>Lea Co NM</u>		Phone #: _____																																			
Sampler Name: <u>Dmitry Mikunov, Clayton Thomas</u>		Fax #: _____																																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																													
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME											
1 H1A (0-6")		2 H1A (0-6")		1		1		1		1		1		1		1		1		1		1		10/16													

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

Relinquished By: <u>[Signature]</u>		Date: <u>10-16-23</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____	
Time: <u>12:23</u>		Time: _____		Time: _____		All Results are emailed. Please provide Email address: _____	
Relinquished By: _____		Date: _____		Received By: _____		REMARKS: _____	
Time: _____		Time: _____		Time: _____		Time: _____	
Delivered By: (Circle One)		Observed Temp. °C <u>-0.6</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials) <u>[Signature]</u>	
Sampler - UPS - Bus - Other: _____		Corrected Temp. °C _____		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
						Thermometer ID #140 Correction Factor 0°C	
						Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Observed Temp. °C _____ Corrected Temp. °C _____	

FORM-000 R 3.4 07/11/23

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

December 12, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS FED 17-3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/11/23 12:00.

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 1 (6') (H236601-01)**

BTX 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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	12/12/2023	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	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 2 (6') (H236601-02)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	800	16.0	12/12/2023	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	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 3 (3') (H236601-03)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	24800	16.0	12/12/2023	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	12/12/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 4 (3') (H236601-04)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEX	<0.300	0.300	12/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/12/2023	ND	416	104	400	8.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 5 (3') (H236601-05)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEX	<0.300	0.300	12/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9600	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2023	ND	216	108	200	0.312	
DRO >C10-C28*	12.3	10.0	12/12/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS - 6 (3') (H236601-06)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEx	<0.300	0.300	12/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13800	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 1 (0-6') (H236601-07)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEX	<0.300	0.300	12/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2023	ND	216	108	200	0.312	
DRO >C10-C28*	13.3	10.0	12/12/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 2 (0-6') (H236601-08)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 3 (0-6') (H236601-09)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 54.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 50.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 4 (3-6') (H236601-10)**

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	12/11/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33	
Total BTEx	<0.300	0.300	12/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2023	ND	216	108	200	0.312	
DRO >C10-C28*	12.5	10.0	12/12/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 5 (0-3') (H236601-11)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEx	<0.300	0.300	12/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 6 (0-3') (H236601-12)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEx	<0.300	0.300	12/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/11/2023  
 Reported: 12/12/2023  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 12/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 7 (0-3') (H236601-13)**

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	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEx	<0.300	0.300	12/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23600	16.0	12/12/2023	ND	416	104	400	8.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	216	108	200	0.312	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	187	93.6	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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Notes and Definitions

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

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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

Company Name: <b>NTN Environmental</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																																																																																				
Project Manager: <b>Shan Sessums</b>		P.O. #:																																																																																																						
Address: <b>209 W McKay St.</b>		Company: <b>Devon</b>																																																																																																						
City: <b>Carlsbad</b>		Attn: <b>Dale Woodall</b>																																																																																																						
Phone #: <b>(432) 701-2159</b>		Address:																																																																																																						
State: <b>NM</b> Zip: <b>88220</b>		City:																																																																																																						
Project #: <b>237676</b>		State:																																																																																																						
Project Owner:		Zip:																																																																																																						
Project Name: <b>Sirius 17 Fed 3 Battery</b>		Phone #:																																																																																																						
Project Location: <b>Eddy Co., NM</b>		Fax #:																																																																																																						
Sampler Name: <b>Jillian Smiley</b>																																																																																																								
FOR LAB USE ONLY																																																																																																								
Lab I.D. <b>#236601</b>		Sample I.D.																																																																																																						
<table border="1"> <thead> <tr> <th>Sample I.D.</th> <th>(G)RAB OR (C)OMP.</th> <th># CONTAINERS</th> <th>MATRIX</th> <th>PRESERV.</th> <th>SAMPLING</th> <th>DATE</th> <th>TIME</th> <th>TESTS</th> </tr> </thead> <tbody> <tr> <td>1 CS-1</td> <td>(16')</td> <td>5</td> <td>GROUNDWATER</td> <td></td> <td></td> <td>2-11-23</td> <td>9:50</td> <td>B-Tex</td> </tr> <tr> <td>2 CS-2</td> <td>(16')</td> <td>1</td> <td>WASTEWATER</td> <td></td> <td></td> <td></td> <td>10:00</td> <td>TPH</td> </tr> <tr> <td>3 CS-3</td> <td>(3')</td> <td></td> <td>SOIL</td> <td></td> <td></td> <td></td> <td>10:05</td> <td>Chloride</td> </tr> <tr> <td>4 CS-4</td> <td>(3')</td> <td></td> <td>OIL</td> <td></td> <td></td> <td></td> <td>10:10</td> <td></td> </tr> <tr> <td>5 CS-5</td> <td>(3')</td> <td></td> <td>SLUDGE</td> <td></td> <td></td> <td></td> <td>10:15</td> <td></td> </tr> <tr> <td>6 CS-6</td> <td>(3')</td> <td></td> <td>OTHER:</td> <td></td> <td></td> <td></td> <td>10:20</td> <td></td> </tr> <tr> <td>7 SW-1</td> <td>(0-6')</td> <td></td> <td>ACID/BASE:</td> <td></td> <td></td> <td></td> <td>10:25</td> <td></td> </tr> <tr> <td>8 SW-2</td> <td>(0-6')</td> <td></td> <td>ICE / COOL</td> <td></td> <td></td> <td></td> <td>10:30</td> <td></td> </tr> <tr> <td>9 SW-3</td> <td>(0-6')</td> <td></td> <td>OTHER:</td> <td></td> <td></td> <td></td> <td>10:35</td> <td></td> </tr> <tr> <td>10 SW-4</td> <td>(3-6')</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10:40</td> <td></td> </tr> </tbody> </table>		Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TESTS	1 CS-1	(16')	5	GROUNDWATER			2-11-23	9:50	B-Tex	2 CS-2	(16')	1	WASTEWATER				10:00	TPH	3 CS-3	(3')		SOIL				10:05	Chloride	4 CS-4	(3')		OIL				10:10		5 CS-5	(3')		SLUDGE				10:15		6 CS-6	(3')		OTHER:				10:20		7 SW-1	(0-6')		ACID/BASE:				10:25		8 SW-2	(0-6')		ICE / COOL				10:30		9 SW-3	(0-6')		OTHER:				10:35		10 SW-4	(3-6')						10:40					
Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TESTS																																																																																																
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Relinquished By: <b>[Signature]</b>		Date: <b>2-11-23</b>		Received By: <b>[Signature]</b>																																																																																																				
Time: <b>2:00</b>		Date: <b>2-11-23</b>		Received By: <b>[Signature]</b>																																																																																																				
Time:		Time:		REMARKS:																																																																																																				
Delivered By: (Circle One)		Observed Temp. °C: <b>4.0</b>		Sample Condition																																																																																																				
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																				
FORM-006 R-3-07-11-23				CHECKED BY: <b>[Signature]</b>																																																																																																				
				Turnaround Time:																																																																																																				
				Thermometer ID #140																																																																																																				
				Correction Factor 0°C																																																																																																				
				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>																																																																																																				
				Bacteria (only) Sample Condition																																																																																																				
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																				
				Observed Temp. °C																																																																																																				
				Corrected Temp. °C																																																																																																				

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





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> NTH Environmental <b>Project Manager:</b> Eiman Sessions <b>Address:</b> 209 W McKay St. <b>City:</b> Carlsbad <b>State:</b> NM <b>zip:</b> 88220 <b>Phone #:</b> (432) 701-2159 <b>Fax #:</b> <b>Project #:</b> 237676 <b>Project Owner:</b> <b>Project Name:</b> Sirius 17 Fed 3 Battery <b>Project Location:</b> Eddy Co., NM <b>Sampler Name:</b> Jillian Smiley				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Devon <b>Attn:</b> Dale Woodall <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>							
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> H030601 <b>Sample I.D.</b>				<b>Matrix</b> <input type="checkbox"/> (G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :				<b>PRESERV</b> <b>SAMPLING</b>							
11 SW-5 (0-3') 12 SW-6 (0-3') 13 SW-7 (0-3')				11 11 11				12-11-23 10:45 12-11-23 10:50 12-11-23 10:55				B-TEX TPH Chloride			
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising, in whole or in part, out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon negligence or otherwise.				<b>Relinquished By:</b> [Signature] <b>Date:</b> 12-11-23 <b>Time:</b> 12:00 <b>Received By:</b> [Signature] <b>Date:</b> 12-11-23 <b>Time:</b>				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b>							
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:				<b>Observed Temp. °C</b> 40°C <b>Corrected Temp. °C</b>				<b>Sample Condition</b> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				<b>CHECKED BY:</b> [Signature] <b>(Initials)</b>			
<b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>				<b>Thermometer ID #140</b>				<b>Bacteria (only) Sample Condition</b> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				<b>Corrected Temp. °C</b>			
<b>REMARKS:</b>				<b>REMARKS:</b>				<b>REMARKS:</b>							



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

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December 21, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS FED 17-3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 11:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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



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

**Analytical Results For:**

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

Project: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 6 ( 4' )	H236732-01	Soil	19-Dec-23 09:30	19-Dec-23 11:19
SW - 10 ( 3-4' )	H236732-02	Soil	19-Dec-23 09:35	19-Dec-23 11:19
SW - 4A ( 3-6' )	H236732-03	Soil	19-Dec-23 09:40	19-Dec-23 11:19
CS - 3 ( 6' )	H236732-04	Soil	19-Dec-23 09:45	19-Dec-23 11:19
SW - 8 ( 3-4' )	H236732-05	Soil	19-Dec-23 09:50	19-Dec-23 11:19
SW - 9 ( 3-4' )	H236732-06	Soil	19-Dec-23 09:55	19-Dec-23 11:19
SW - 6A ( 0-4' )	H236732-07	Soil	19-Dec-23 09:59	19-Dec-23 11:19

12/21/23 - Client changed some of the sample IDs (see COC). This is the revised report and will replace the one sent on 12/20/23.

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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**CS - 6 ( 4' )**  
**H236732-01 (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>464</b>		16.0	mg/kg	4	3122010	AC	20-Dec-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121911	JH	19-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		102 %		71.5-134		3121911	JH	19-Dec-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B	

Surrogate: 1-Chlorooctane		81.0 %		48.2-134		3121913	MS	20-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane		77.7 %		49.1-148		3121913	MS	20-Dec-23	8015B	
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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**SW - 10 ( 3-4' )****H236732-02 (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>576</b>		16.0	mg/kg	4	3122010	AC	20-Dec-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3121911	JH	19-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	3121911	JH	19-Dec-23	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B

Surrogate: 1-Chlorooctane	77.7 %	48.2-134	3121913	MS	20-Dec-23	8015B
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Surrogate: 1-Chlorooctadecane	72.7 %	49.1-148	3121913	MS	20-Dec-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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**SW - 4A ( 3-6' )****H236732-03 (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>10400</b>		16.0	mg/kg	4	3122010	AC	20-Dec-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3121911	JH	19-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	3121911	JH	19-Dec-23	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3121913	MS	20-Dec-23	8015B

Surrogate: 1-Chlorooctane	80.8 %	48.2-134	3121913	MS	20-Dec-23	8015B
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Surrogate: 1-Chlorooctadecane	76.8 %	49.1-148	3121913	MS	20-Dec-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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**CS - 3 ( 6' )**  
**H236732-04 (Soil)**

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

Chloride	656		16.0	mg/kg	4	3122010	AC	20-Dec-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121911	JH	19-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.1 %		71.5-134	3121911	JH	19-Dec-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	

Surrogate: 1-Chlorooctane			73.0 %		48.2-134	3121922	MS	20-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.1 %		49.1-148	3121922	MS	20-Dec-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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**SW - 8 (3-4')****H236732-05 (Soil)**

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

Chloride	112		16.0	mg/kg	4	3122010	AC	20-Dec-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121911	JH	19-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 3121911 JH 19-Dec-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	

Surrogate: 1-Chlorooctane 74.9 % 48.2-134 3121922 MS 20-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148 3121922 MS 20-Dec-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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**SW - 9 (3-4')****H236732-06 (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>160</b>		16.0	mg/kg	4	3122010	AC	20-Dec-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121911	JH	19-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %		71.5-134	3121911	JH	19-Dec-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	

Surrogate: 1-Chlorooctane			76.4 %		48.2-134	3121922	MS	20-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			89.4 %		49.1-148	3121922	MS	20-Dec-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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**SW - 6A ( 0-4' )****H236732-07 (Soil)**

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

Chloride	12000		16.0	mg/kg	4	3122010	AC	20-Dec-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3121911	JH	19-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3121911	JH	19-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		71.5-134	3121911	JH	19-Dec-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3121922	MS	20-Dec-23	8015B	

Surrogate: 1-Chlorooctane			78.9 %		48.2-134	3121922	MS	20-Dec-23	8015B	
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Surrogate: 1-Chlorooctadecane			92.4 %		49.1-148	3121922	MS	20-Dec-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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3122010 - 1:4 DI Water</b>									
<b>Blank (3122010-BLK1)</b>									
					Prepared & Analyzed: 20-Dec-23				
Chloride	ND	16.0	mg/kg						
<b>LCS (3122010-BS1)</b>									
					Prepared & Analyzed: 20-Dec-23				
Chloride	432	16.0	mg/kg	400	108	80-120			
<b>LCS Dup (3122010-BSD1)</b>									
					Prepared & Analyzed: 20-Dec-23				
Chloride	448	16.0	mg/kg	400	112	80-120	3.64	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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**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 3121911 - Volatiles****Blank (3121911-BLK1)**

Prepared &amp; Analyzed: 19-Dec-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)	0.0559		mg/kg	0.0500		112	71.5-134			

**LCS (3121911-BS1)**

Prepared &amp; Analyzed: 19-Dec-23

Benzene	2.36	0.050	mg/kg	2.00		118	82.8-130			
Toluene	2.36	0.050	mg/kg	2.00		118	86-128			
Ethylbenzene	2.45	0.050	mg/kg	2.00		122	85.9-128			
m,p-Xylene	4.89	0.100	mg/kg	4.00		122	89-129			
o-Xylene	2.43	0.050	mg/kg	2.00		122	86.1-125			
Total Xylenes	7.32	0.150	mg/kg	6.00		122	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			

**LCS Dup (3121911-BSD1)**

Prepared &amp; Analyzed: 19-Dec-23

Benzene	2.47	0.050	mg/kg	2.00		124	82.8-130	4.79	15.8	
Toluene	2.33	0.050	mg/kg	2.00		116	86-128	1.42	15.9	
Ethylbenzene	2.41	0.050	mg/kg	2.00		121	85.9-128	1.47	16	
m,p-Xylene	4.78	0.100	mg/kg	4.00		120	89-129	2.17	16.2	
o-Xylene	2.39	0.050	mg/kg	2.00		119	86.1-125	1.89	16.7	
Total Xylenes	7.17	0.150	mg/kg	6.00		120	88.2-128	2.08	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.1	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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**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 3121913 - General Prep - Organics****Blank (3121913-BLK1)**

Prepared &amp; Analyzed: 19-Dec-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	42.8		mg/kg	50.0		85.5	48.2-134		
Surrogate: 1-Chlorooctadecane	40.2		mg/kg	50.0		80.4	49.1-148		

**LCS (3121913-BS1)**

Prepared &amp; Analyzed: 19-Dec-23

GRO C6-C10	172	10.0	mg/kg	200		85.9	66.4-123		
DRO >C10-C28	177	10.0	mg/kg	200		88.6	66.5-118		
Total TPH C6-C28	349	10.0	mg/kg	400		87.2	77.6-123		
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0		88.0	48.2-134		
Surrogate: 1-Chlorooctadecane	41.8		mg/kg	50.0		83.7	49.1-148		

**LCS Dup (3121913-BS1)**

Prepared &amp; Analyzed: 19-Dec-23

GRO C6-C10	174	10.0	mg/kg	200		86.8	66.4-123	1.03	17.7
DRO >C10-C28	180	10.0	mg/kg	200		90.1	66.5-118	1.76	21
Total TPH C6-C28	354	10.0	mg/kg	400		88.5	77.6-123	1.40	18.5
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.7	48.2-134		
Surrogate: 1-Chlorooctadecane	42.2		mg/kg	50.0		84.3	49.1-148		

**Batch 3121922 - General Prep - Organics****Blank (3121922-BLK1)**

Prepared: 19-Dec-23 Analyzed: 20-Dec-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	39.6		mg/kg	50.0		79.3	48.2-134		
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.8	49.1-148		

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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: SIRIUS FED 17-3H BATTERY  
Project Number: 237676  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
21-Dec-23 11:23

**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 3121922 - General Prep - Organics****LCS (3121922-BS1)**

Prepared: 19-Dec-23 Analyzed: 20-Dec-23

GRO C6-C10	191	10.0	mg/kg	200		95.5	66.4-123			
DRO >C10-C28	186	10.0	mg/kg	200		92.8	66.5-118			
Total TPH C6-C28	377	10.0	mg/kg	400		94.1	77.6-123			
Surrogate: 1-Chlorooctane	40.7		mg/kg	50.0		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.6		mg/kg	50.0		89.1	49.1-148			

**LCS Dup (3121922-BS1)**

Prepared: 19-Dec-23 Analyzed: 20-Dec-23

GRO C6-C10	190	10.0	mg/kg	200		95.0	66.4-123	0.539	17.7	
DRO >C10-C28	194	10.0	mg/kg	200		97.2	66.5-118	4.66	21	
Total TPH C6-C28	384	10.0	mg/kg	400		96.1	77.6-123	2.06	18.5	
Surrogate: 1-Chlorooctane	41.8		mg/kg	50.0		83.5	48.2-134			
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.1	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



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

[illegible]





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

---

January 10, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS FED 17-3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/08/24 11:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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



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

**Analytical Results For:**

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

Received: 01/08/2024  
 Reported: 01/10/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 5 4' (H240064-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.01	101	2.00	9.36	
Toluene*	<0.050	0.050	01/08/2024	ND	1.98	99.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.07	103	2.00	12.1	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.13	102	6.00	12.5	
Total BTEX	<0.300	0.300	01/08/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/08/2024  
 Reported: 01/10/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 B 3-6' (H240064-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.01	101	2.00	9.36	
Toluene*	<0.050	0.050	01/08/2024	ND	1.98	99.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.07	103	2.00	12.1	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.13	102	6.00	12.5	
Total BTEX	<0.300	0.300	01/08/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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**Analytical Results For:**

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

Received: 01/08/2024  
 Reported: 01/10/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 6 B 0-4' (H240064-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.01	101	2.00	9.36	
Toluene*	<0.050	0.050	01/08/2024	ND	1.98	99.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.07	103	2.00	12.1	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.13	102	6.00	12.5	
Total BTEX	<0.300	0.300	01/08/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/08/2024  
 Reported: 01/10/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 11 0-4' (H240064-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2024	ND	2.01	101	2.00	9.36		
Toluene*	<0.050	0.050	01/08/2024	ND	1.98	99.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.07	103	2.00	12.1		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.13	102	6.00	12.5		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 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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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 1240064

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Matthews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	209 W McKay St	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	(432) 701-2159	Email:	Wesley.Matthews@dvn.com

Program: <input type="checkbox"/> US/PTST <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"/> PT/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Sirius 17 Fed 3 Battery		Turn Around	Pre. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	237676		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO	DI Water: H <sub>2</sub> O			
Project Location:	Eddy Co. NM		Due Date:	48hr													Cool: Cool	MeOH: Me			
Sampler's Name:	Jillian Smiley		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO <sub>3</sub> : HN			
PO #:	21205968																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na			
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															NaHSO <sub>4</sub> : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:															Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>				
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:															Zn Acetate+NaOH: Zn				
Total Containers:	4		Corrected Temperature:	2.9°C													NaOH+Ascorbic Acid: SAPC				
Sample Identification	Depth	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
CS-5	4'	1/8/2024		X		Comp	1	X	X	X	X	X	X	X	X	X	X				
SW-4B	3-6'	1/8/2024		X		Comp	1	X	X	X	X	X	X	X	X	X	X				
SW-6B	0-4'	1/8/2024		X		Comp	1	X	X	X	X	X	X	X	X	X	X				
SW-11	0-4'	1/8/2024		X		Comp	1	X	X	X	X	X	X	X	X	X	X				

Additional Comments:

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1/8/24 1111			
		2			
		4			
		6			



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---

January 18, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS FED 17-3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/17/24 10:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 01/17/2024  
 Reported: 01/18/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 5 6' (H240192-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.11	
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.15	107	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.36	106	6.00	2.80	
Total BTX	<0.300	0.300	01/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	01/17/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	211	105	200	2.50	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	201	100	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/17/2024  
 Reported: 01/18/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 7 6' (H240192-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.11	
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.15	107	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.36	106	6.00	2.80	
Total BTEX	<0.300	0.300	01/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	211	105	200	2.50	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	201	100	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 01/17/2024  
 Reported: 01/18/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 10 A 4-6' (H240192-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.11		
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.06		
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.15	107	2.00	2.90		
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.36	106	6.00	2.80		
Total BTEx	<0.300	0.300	01/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	128	16.0	01/17/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	211	105	200	2.50	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	201	100	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/17/2024  
 Reported: 01/18/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 11 A 0-6' (H240192-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.11	
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.15	107	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.36	106	6.00	2.80	
Total BTEX	<0.300	0.300	01/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	211	105	200	2.50	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	201	100	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 01/17/2024  
 Reported: 01/18/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 12 3-6' (H240192-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.11	
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.15	107	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.36	106	6.00	2.80	
Total BTEX	<0.300	0.300	01/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/17/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	192	96.1	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	197	98.5	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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  
 ETHAN SESSUMS  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 01/17/2024  
 Reported: 01/18/2024  
 Project Name: SIRIUS FED 17-3H BATTERY  
 Project Number: 237676  
 Project Location: DEVON - EDDY CO., NM

Sampling Date: 01/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 13 0-6' (H240192-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.11		
Toluene*	<0.050	0.050	01/17/2024	ND	2.14	107	2.00	3.06		
Ethylbenzene*	<0.050	0.050	01/17/2024	ND	2.15	107	2.00	2.90		
Total Xylenes*	<0.150	0.150	01/17/2024	ND	6.36	106	6.00	2.80		
Total BTEx	<0.300	0.300	01/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/17/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2024	ND	192	96.1	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/17/2024	ND	197	98.5	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	01/17/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> DTGE		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> Ethan Sessums		<b>P.O. #:</b> 21205968			
<b>Address:</b> 209 W McKay Street		<b>Company:</b> Devon			
<b>City:</b> Cordoba		<b>Attn:</b> Dale Wurdak			
<b>Phone #:</b> 354-266-5456		<b>Address:</b>			
<b>Fax #:</b>		<b>City:</b>			
<b>Project #:</b> 237676		<b>State:</b>			
<b>Project Name:</b> Since 17 Feb 3 Battery		<b>Zip:</b>			
<b>Project Location:</b> Edy Co, NM		<b>Phone #:</b>			
<b>Sampler Name:</b> Kenny Khan		<b>Fax #:</b>			
<small>FOR LAB USE ONLY</small>					
<b>Lab I.D.</b>  H240192	<b>Sample I.D.</b>	<b>MATRIX</b>		<b>PRESERV.</b>	<b>SAMPLING</b>
		<b>GROUNDWATER</b> <b>WASTEWATER</b> <b>SOIL</b> <b>OIL</b> <b>SLUDGE</b> <b>OTHER:</b>		<b>ACID/BASE:</b> <b>ICE / COOL</b> <b>OTHER:</b>	<b>DATE</b> <b>TIME</b>
		<b>(G)RAB OR (C)OMP.</b>			
		<b># CONTAINERS</b>			
		<b>DATE</b>			
		<b>TIME</b>			
		<b>Q:31</b>			
		<b>Q:32</b>			
		<b>Q:33</b>			
		<b>Q:34</b>			
		<b>Q:35</b>			
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<b>Relinquished By:</b> [Signature] <b>Date:</b> 1/17/24 <b>Received By:</b> [Signature] <b>Date:</b> 1/17/24					
<b>Relinquished By:</b> [Signature] <b>Date:</b> 1/17/24 <b>Received By:</b> [Signature] <b>Date:</b> 1/17/24					
<b>Delivered By:</b> (Circle One) <b>Observed Temp. °C:</b> 21 <b>Sample Condition:</b> <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <b>CHECKED BY:</b> [Signature] <b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> <b>Bacteria (only) Sample Condition:</b> <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Observed Temp. °C:</b> <b>Corrected Temp. °C:</b>					
<b>Remarks:</b>					

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

---

February 01, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SIRIUS 17

Enclosed are the results of analyses for samples received by the laboratory on 01/31/24 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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



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

**Analytical Results For:**

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

Project: SIRIUS 17  
Project Number: NOT GIVEN  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
01-Feb-24 16:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VD - 1 (0 - 1')	H240432-01	Soil	31-Jan-24 09:00	31-Jan-24 11:55
VD - 1 (1 - 2')	H240432-02	Soil	31-Jan-24 09:00	31-Jan-24 11:55
VD - 1 (2 - 3')	H240432-03	Soil	31-Jan-24 09:00	31-Jan-24 11:55

02/01/24 - Client changed all the sample IDs (see COC). This is the revised report and will replace the one sent earlier today, 02/01/24.

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

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: SIRIUS 17  
Project Number: NOT GIVEN  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
01-Feb-24 16:56

**VD - 1 (0 - 1')**  
**H240432-01 (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>304</b>		16.0	mg/kg	4	4013115	AC	31-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4013109	JH	31-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	71.5-134	4013109	JH	31-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	

Surrogate: 1-Chlorooctane	97.3 %	48.2-134	4013112	MS	31-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane	92.4 %	49.1-148	4013112	MS	31-Jan-24	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: SIRIUS 17  
Project Number: NOT GIVEN  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
01-Feb-24 16:56

**VD - 1 (1 - 2')**  
**H240432-02 (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>800</b>		16.0	mg/kg	4	4013115	AC	31-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013109	JH	31-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4013109	JH	31-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	

Surrogate: 1-Chlorooctane			103 %		48.2-134	4013112	MS	31-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			99.3 %		49.1-148	4013112	MS	31-Jan-24	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: SIRIUS 17  
Project Number: NOT GIVEN  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
01-Feb-24 16:56

**VD - 1 (2 - 3')**  
**H240432-03 (Soil)**

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

Chloride	560		16.0	mg/kg	4	4013115	AC	31-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013109	JH	31-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013109	JH	31-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	4013109	JH	31-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013112	MS	31-Jan-24	8015B	

Surrogate: 1-Chlorooctane			84.1 %		48.2-134	4013112	MS	31-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			76.6 %		49.1-148	4013112	MS	31-Jan-24	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: SIRIUS 17  
Project Number: NOT GIVEN  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
01-Feb-24 16:56

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4013115 - 1:4 DI Water</b>									
<b>Blank (4013115-BLK1)</b>					Prepared & Analyzed: 31-Jan-24				
Chloride	ND	16.0	mg/kg						
<b>LCS (4013115-BS1)</b>					Prepared & Analyzed: 31-Jan-24				
Chloride	432	16.0	mg/kg	400	108	80-120			
<b>LCS Dup (4013115-BSD1)</b>					Prepared & Analyzed: 31-Jan-24				
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	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: SIRIUS 17  
Project Number: NOT GIVEN  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
01-Feb-24 16:56

**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 4013109 - Volatiles****Blank (4013109-BLK1)**

Prepared &amp; Analyzed: 31-Jan-24

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)	0.0557		mg/kg	0.0500		111	71.5-134			

**LCS (4013109-BS1)**

Prepared &amp; Analyzed: 31-Jan-24

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.05	0.050	mg/kg	2.00		103	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	89-129			
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125			
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0533		mg/kg	0.0500		107	71.5-134			

**LCS Dup (4013109-BSD1)**

Prepared &amp; Analyzed: 31-Jan-24

Benzene	2.07	0.050	mg/kg	2.00		104	82.8-130	3.17	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	2.40	15.9	
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128	2.99	16	
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89-129	2.16	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	2.56	16.7	
Total Xylenes	6.26	0.150	mg/kg	6.00		104	88.2-128	2.29	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	71.5-134			

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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  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706

Project: SIRIUS 17  
Project Number: NOT GIVEN  
Project Manager: ETHAN SESSUMS  
Fax To:

Reported:  
01-Feb-24 16:56

**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 4013112 - General Prep - Organics****Blank (4013112-BLK1)**

Prepared &amp; Analyzed: 31-Jan-24

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	50.9		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	48.4		mg/kg	50.0		96.8	49.1-148			

**LCS (4013112-BS1)**

Prepared &amp; Analyzed: 31-Jan-24

GRO C6-C10	195	10.0	mg/kg	200		97.7	66.4-123			
DRO >C10-C28	194	10.0	mg/kg	200		96.9	66.5-118			
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	77.6-123			
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	49.1-148			

**LCS Dup (4013112-BSD1)**

Prepared &amp; Analyzed: 31-Jan-24

GRO C6-C10	198	10.0	mg/kg	200		99.2	66.4-123	1.50	17.7	
DRO >C10-C28	195	10.0	mg/kg	200		97.7	66.5-118	0.873	21	
Total TPH C6-C28	394	10.0	mg/kg	400		98.4	77.6-123	1.19	18.5	
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	57.8		mg/kg	50.0		116	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.

---

Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>NTOE</u>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <u>Ethan Sessions</u>		Company:			
Address: <u>209 W Meloy</u>		Attn:			
City: <u>Carlsbad</u>		State: <u>NM</u> Zip: <u>88200</u>			
Phone #: <u>354-264-8456</u>		Fax #:			
Project #:		Project Owner: <u>Belton</u>			
Project Name: <u>SINUS 17</u>		City:			
Project Location: <u>Lee County</u>		State:			
Sampler Name: <u>Tiller Hunnell</u>		Phone #:			
FOR LAB USE ONLY		Fax #:			
Sample I.D. <u>4240438</u>		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
DATE		TIME			
1-31		9:00			
TPH					
Chlorides					
BTEX					

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Relinquished By: <u>[Signature]</u>	Date: <u>1-31</u>	Received By: <u>[Signature]</u>	Time: <u>11:55</u>
Relinquished By: <u>[Signature]</u>	Date: <u>1-31</u>	Received By: <u>[Signature]</u>	Time: <u>11:55</u>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>
Turnaround Time:	Thermometer ID #140	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition
	Correction Factor 0°C	<u>24hr</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Observed Temp. °C
			Corrected Temp. °C

REMARKS: \*Customer requested Sample Duplication. go. 2/1/24

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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

QUESTIONS  
  
Action 324719

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 324719
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2321431668
Incident Name	NAPP2321431668 SIRIUS 17 FED 3H BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2130628720] SIRIUS 17 CTB 3

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	SIRIUS 17 FED 3H BATTERY
Date Release Discovered	08/01/2023
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Transfer pump discharge line failed. Sprayed produced water from a pinhole. Line was clamped to stop the leak. 0.21 bbls released. A small portion of the release went offsite. 0 bbls recovered as all fluids soaked in.

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QUESTIONS, Page 2

Action 324719

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	324719
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	False
If all the actions described above have not been undertaken, explain why	no fluids were recovered. all fluids soaked into the ground

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 03/19/2024
--	--

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 324719

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	324719
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	15400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	10
GRO+DRO	(EPA SW-846 Method 8015M)	10
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	12/11/2023
On what date will (or did) the final sampling or liner inspection occur	01/31/2024
On what date will (or was) the remediation complete(d)	01/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	1100
What is the estimated volume (in cubic yards) that will be reclaimed	245
What is the estimated surface area (in square feet) that will be remediated	1100
What is the estimated volume (in cubic yards) that will be remediated	245

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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



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QUESTIONS, Page 4

Action 324719

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	324719
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 03/19/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 5

Action 324719

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	324719
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS****Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The area is surrounded by transfer pumps and flow lines.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	275
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	31
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (F#) on which this deferral should be granted	SIRIUS 17 CTB 3 [fAPP2130628720]
Enter the well API (30-) on which this deferral should be granted	30-015-38481 SIRIUS 17 FEDERAL COM #003H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 03/19/2024

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811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**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**

QUESTIONS, Page 6  
  
Action 324719

**QUESTIONS (continued)**

Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	324719
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	303017
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	600

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

**District I**  
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CONDITIONS  
  
Action 324719

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number: 324719
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Deferral Request Approved. This deferral request indicates H-4 and SW-7 confirm the presence of TPH and chloride containing soils that do not allow the excavation to be expanded horizontally due to the presence of facility infrastructure. Approximately 31 cubic yards of TPH and chloride impacted soil will remain in place until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. VD-1 requires horizontal delineation at the time of facility reconstruction or when the well or facility is plugged or abandoned, whichever comes first. Horizontal delineation must meet the requirement of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg Benzene) or OCD approved "background" values for the upper 4 feet of the impacted area.	5/6/2024
crystal.walker	Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	5/6/2024