

Incident ID	nAPP2125031738
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?	<u>170</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" 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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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: Connor Walker Title: Sr. Engineer

Signature: Connor Walker Date: 1/3/2022

email: cwalker@mewbourne.com Telephone: (806) 202-5281

**OCD Only**

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

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## 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: Connor Walker Title: Sr. Engineer  
Signature: Connor Walker Date: 1/3/2022  
email: cwalker@mewbourne.com Telephone: (806) 202-5281

**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: Jennifer Nobui Date: 02/08/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

## Remediation Summary & Soil Closure Request

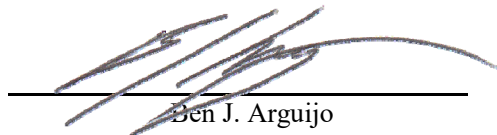
### Mewbourne Oil Company Slider 18 W0MD Fed Com #1H

Eddy County, New Mexico  
Unit Letter "M", Section 18, Township 23 South, Range 27 East  
Latitude 32.297924 North, Longitude 104.236742 West  
NMOCD Reference No. nAPP2125031738

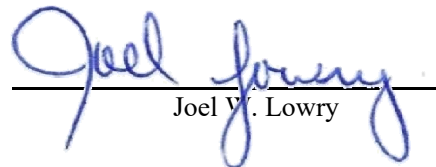
Prepared By:

#### Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A  
Lubbock, Texas 79423



Ben J. Arguijo



Joel V. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette



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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company (ETC), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Slider 18 W0MD Fed Com #1H (henceforth, "Slider 18"). Details of the release are summarized below:

## Location of Release Source

Latitude: 32.297924 Longitude: -104.236742

Provided GPS are in WGS84 format.

Site Name: Slider 18 W0MD Fed Com #1H	Site Type: Tank Battery
Date Release Discovered: 8/26/2021	API # (if applicable): 30-015-43621

Unit Letter	Section	Township	Range	County
"M"	18	23S	27E	Eddy

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

## Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 200	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 400	Volume Recovered (bbls) 30
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<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) Pipeline Liquids	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

Static discharge ignited tank vapors, which in turn caught the tanks on fire.

## Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Slider 18 release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	170'			
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Slider 18 release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
170'	Chloride (Cl <sup>-</sup> )	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

## 4.0 INITIAL SITE ASSESSMENT

On September 28, 2021, Etech conducted an initial site assessment. During the initial site assessment, three (3) test trenches (TT-1, TT-2, and TT-3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the test trenches, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of six (6) delineation soil samples (TT 1 @ Surf., TT 1 @ 1', TT 2 @ Surf., TT 2 @ 1', TT 3 @ Surf., and TT 3 @ 3') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria beyond one (1) foot below ground surface (bgs) in the areas characterized by test trenches TT-1 and TT-2 or beyond three (3) feet bgs in the area characterized by test trench TT-3.

The locations of the test trenches are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the release site are provided in Appendix D. Laboratory analytical reports are provided in Appendix D.

## 5.0 REMEDIATION ACTIVITIES SUMMARY

On October 26, 2021, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On October 29, 2021, Etech collected 12 confirmation soil samples (NW1, NW2, EW1, EW2, SW1, SW2, SW3, and FL1 @ 6.5' through FL5 @ 8') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below both the applicable NMOCD Closure Criteria and the laboratory method detection limit (MDL) in each of the submitted soil samples. Chloride concentrations ranged from 48.0 mg/kg in soil samples EW1, SW1, SW3, and FL1 @ 6.5' to 848 mg/kg in soil sample FL4 @ 3'.

On November 4, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL4 @ 3'. Etech also collected 14 confirmation soil samples (EW3, SW4, SW5, SW6, SW7, WW1, WW2, FL4 @ 4', and FL6 @ 7.5' through FL11 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil samples EW3, FL7 @ 8.5', and FL9 @ 7.5' to 432 mg/kg in soil sample FL6 @ 7.5'.

On November 17, 2021, Etech collected 20 confirmation soil samples (NW3, EW4, EW5, EW6, FL12 @ 3.5' through FL14 @ 12.5', FL14 @ NW, FL14 @ EW, FL15 @ 16', FL16 @ 16', FL16 @ NW, FL16 @ WW, and FL17 @ 2.5' through FL23 @ 2.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil samples EW3, FL7 @ 8.5', and FL9 @ 7.5' to 432 mg/kg in soil sample FL6 @ 7.5'.

On November 18, 2021, Etech collected seven (7) confirmation soil samples (FL24 @ 1.5' through FL30 @ 1') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 48.0 mg/kg in soil sample FL24 @ 1.5' to 288 mg/kg in soil sample FL30 @ 1'.

On November 19, 2021, Etech collected 13 confirmation soil samples (NW4, WW3, WW4, WW5, and FL31 @ 4' through FL39 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL in each of the submitted soil samples, with the exception of soil sample NW4, which exhibited a TPH concentration of 58.1 mg/kg. Chloride concentrations ranged from 48.0 mg/kg in soil sample FL38 @ 3.5' to 256 mg/kg in soil sample NW4.

On December 1, 2021, Etech collected 12 confirmation soil samples (NW5, NW6, NW7, NW9, EW7, EW8, and FL40 @ 1' through FL45 @ 3.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL in each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples NW6, NW7, EW7, EW8, FL40 @ 1', FL41 @ 1', FL43 @ 1', FL44 @ 1', and FL45 @ 3.5' to 122 mg/kg in soil sample NW5. Chloride concentrations ranged from 32.0 mg/kg in soil sample EW7 to 496 mg/kg in soil sample FL42 @ 1'.

On December 1, 2021, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample NW5. Etech collected one (1) confirmation soil sample (NW5A) from the sidewall of the newly excavated area. The soil sample was submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated the TPH concentration was 50.1 mg/kg and below the NMOCD Closure Criterion.

The final dimensions of the excavated area were approximately 200 to 215 feet in length, 48 to 142 feet in width, and one (1) to 16 feet in depth. During the course of remediation activities, approximately 7,014 cubic yards of impacted soil were transported to an NMOCD-permitted surface waste facility for disposal. Approximately 7,044 cubic yards of locally sourced, non-impacted material were imported to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

## **6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area of the production pad was contoured and compacted to facilitate rebuilding of the tank battery facility and containment area. The affected area in the adjacent pasture was contoured and compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

## 7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Slider 18 release site.

## 8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

## **9.0 DISTRIBUTION**

***Mewbourne Oil Company***

*4801 Business Park Blvd.  
Hobbs, NM 88240*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 2  
811 S. First Street  
Artesia, NM 88210*

***Hobbs Field Office***

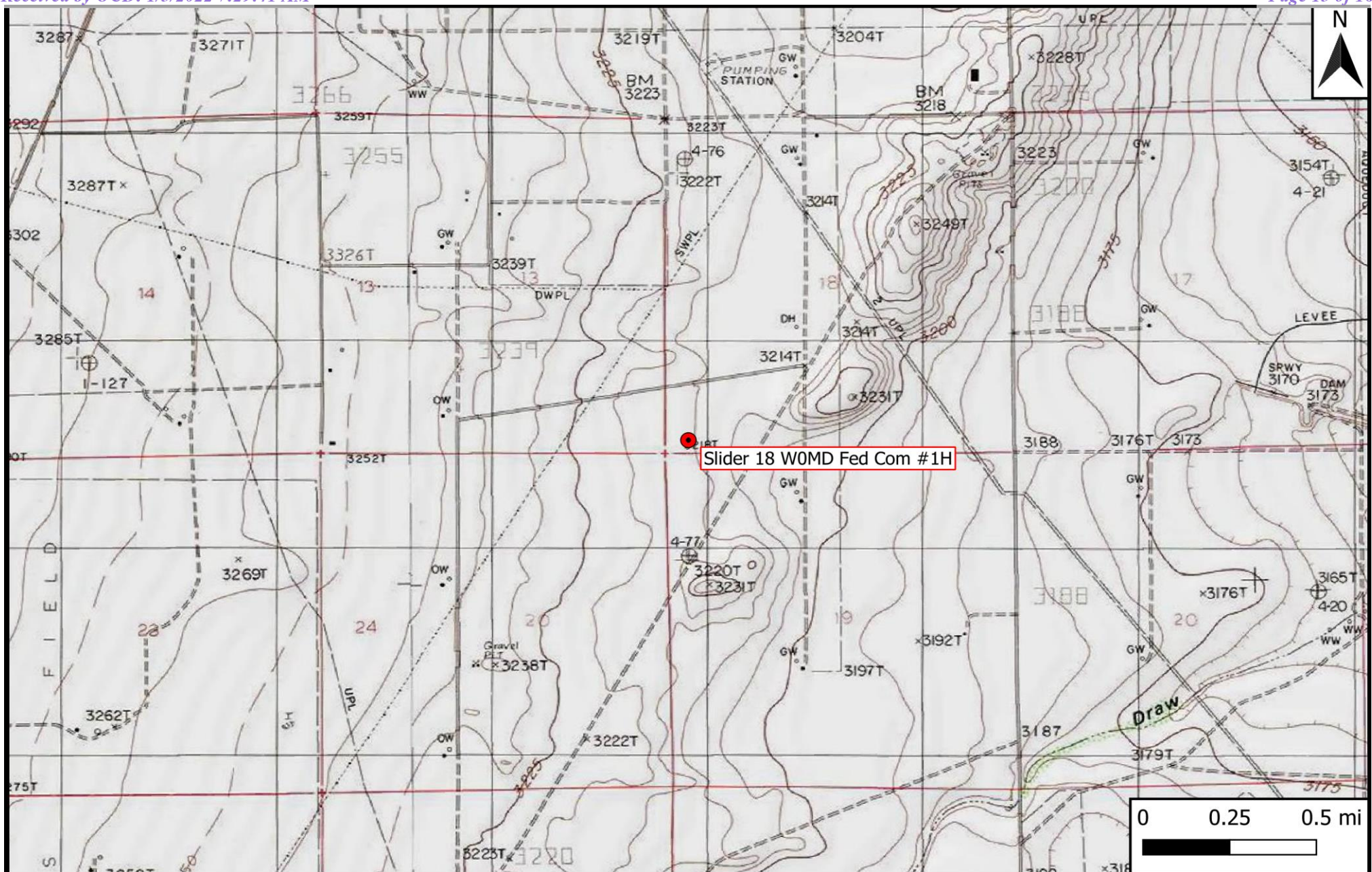
*New Mexico State Land Office  
2827 North Dal Paso Street  
Suite 117  
Hobbs, NM 88240*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**





## Legend

- Site Location

## Figure 1

Topographic Map  
 Mewbourne Oil Company  
 Slider 18 W0MD Fed Com #1H  
 GPS: 32.297924, -104.236742  
 Eddy County



Drafted: bja

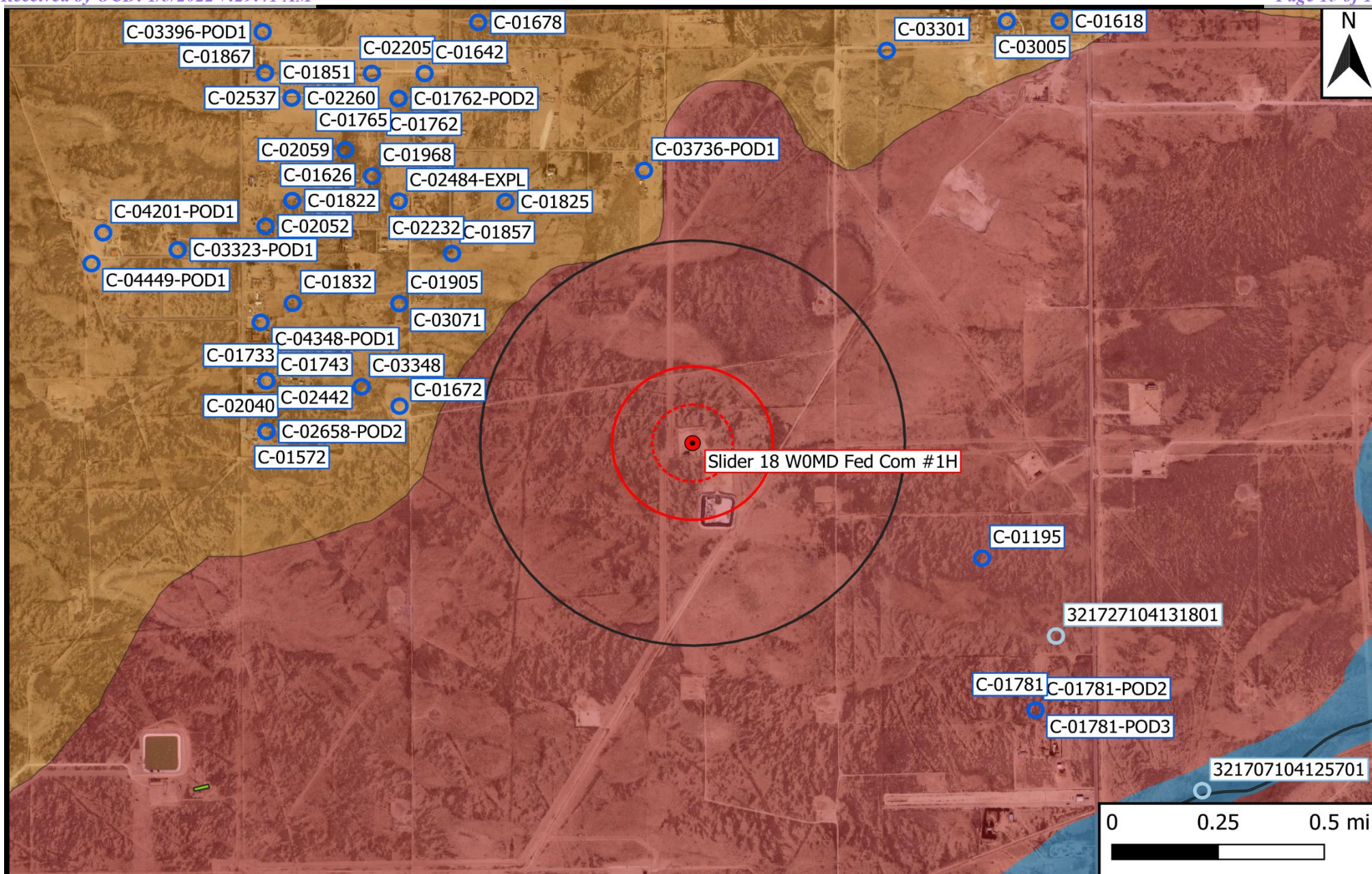
Checked: jwl

Date: 12/20/21

## **Figure 2**

### **Aerial Proximity Map**





## Legend

- |                              |                            |                 |
|------------------------------|----------------------------|-----------------|
| ● Site Location              | 1% Annual Flood Chance     | 500-Ft Radius   |
| ○ Well - NMOSE               | Emergent/Forested Wetlands | 1,000-Ft Radius |
| ○ Well - USGS                | Freshwater Pond/Lake       | 0.5-Mi Radius   |
| ○ Well - Exploratory/Monitor | Medium/High Karst          |                 |
| — Potash Mine Workings       | Riverine                   |                 |

## Figure 2

Aerial Proximity Map  
 Mewbourne Oil Company  
 Slider 18 W0MD Fed Com #1H  
 GPS: 32.297924, -104.236742  
 Eddy County



Drafted: bja

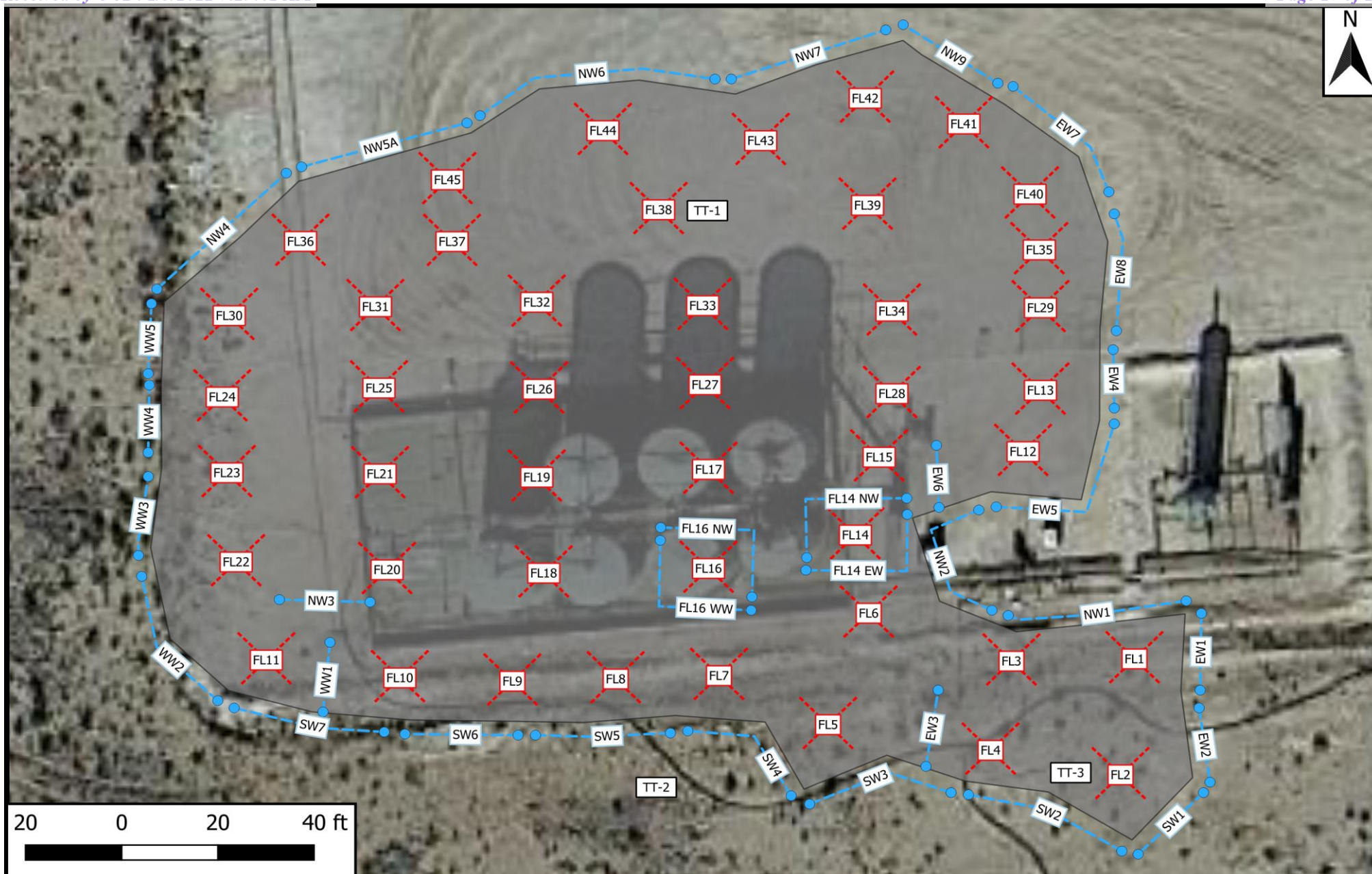
Checked: jwl

Date: 12/20/21

## **Figure 3**

### **Site & Sample Location Map**





## Legend

- Excavation
- X Composite Floor Sample
- X Composite Wall Sample
- Test Trench

## Figure 3

Site & Sample Location Map  
 Mewbourne Oil Company  
 Slider 18 W0MD Fed Com #1H  
 GPS: 32.297924, -104.236742  
 Eddy County



Revised: bja

Checked: jwl

Date: 12/30/21

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Slider 18 W0MD Fed Com #1H NMOCD Ref. #: nAPP2125031738											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation Samples											
TT 1 @ Surf.	9/28/2021	0	Excavated	<0.050	<0.300	<10.0	252	252	165	417	2,040
TT 1 @ 1'	9/28/2021	1	Excavated	-	-	<10.0	57.1	57.1	37.0	94.1	400
TT 2 @ Surf.	9/28/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 2 @ 1'	9/28/2021	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 3 @ Surf.	9/28/2021	0	Excavated	<0.050	<0.300	<10.0	16.0	16.0	<10.0	16.0	14,800
TT 3 @ 3'	9/28/2021	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	160
Excavation Samples											
NW1	10/29/2021	0-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW2	10/29/2021	0-7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW3	11/17/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NW4	11/19/2021	0-1	In-Situ	<0.050	<0.300	<10.0	38.7	38.7	19.4	58.1	256
NW5	12/1/2021	0-3.5	Excavated	<0.050	<0.300	<10.0	72.2	72.2	49.3	122	336
NW5A	12/7/2021	0-3.5	In-Situ	-	-	<10.0	36.6	36.6	13.5	50.1	-
NW6	12/1/2021	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NW7	12/1/2021	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW9	12/1/2021	0-1	In-Situ	<0.050	<0.300	<10.0	13.6	13.6	<10.0	13.6	432
EW1	10/29/2021	0-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW2	10/29/2021	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW3	11/4/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW4	11/17/2021	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
EW5	11/17/2021	0-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW6	11/17/2021	0-16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW7	12/1/2021	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW8	12/1/2021	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW1	10/29/2021	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW2	10/29/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW3	10/29/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW4	11/4/2021	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW5	11/4/2021	0-8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW6	11/4/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
SW7	11/4/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW1	11/4/2021	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WW2	11/4/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW3	11/19/2021	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW4	11/19/2021	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW5	11/19/2021	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL1 @ 6.5'	10/29/2021	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL2 @ 3'	10/29/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL3 @ 3'	10/29/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL4 @ 3'	10/29/2021	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**Slider 18 W0MD Fed Com #1H**  
**NMOCD Ref. #: nAPP2125031738**

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL4 @ 4'	11/4/2021	4	In-Situ	-	-	-	-	-	-	-	80.0
FL5 @ 8'	10/29/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL6 @ 7.5'	11/4/2021	7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL7 @ 8.5'	11/4/2021	8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL8 @ 8.5'	11/4/2021	8.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL9 @ 7.5'	11/4/2021	7.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL10 @ 8'	11/4/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL11 @ 2'	11/4/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL12 @ 3.5'	11/17/2021	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL13 @ 3'	11/17/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL14 @ 12.5'	11/17/2021	12.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL14 @ NW	11/17/2021	12.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL14 @ EW	11/17/2021	12.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL15 @ 16'	11/17/2021	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL16 @ 16'	11/17/2021	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL16 @ NW	11/17/2021	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL16 @ WW	11/17/2021	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL17 @ 2.5'	11/17/2021	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL18 @ 4'	11/17/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL19 @ 3'	11/17/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL20 @ 8'	11/17/2021	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL21 @ 5'	11/17/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL22 @ 2'	11/17/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL23 @ 2.5'	11/17/2021	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL24 @ 1.5'	11/18/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL25 @ 2.5'	11/18/2021	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL26 @ 2.5'	11/18/2021	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL27 @ 2.5'	11/18/2021	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL28 @ 2'	11/18/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL29 @ 1.5'	11/18/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL30 @ 1'	11/18/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL31 @ 4'	11/19/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL32 @ 1.5'	11/19/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL33 @ 1.5'	11/19/2021	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL34 @ 1'	11/19/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL35 @ 1'	11/19/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL36 @ 1'	11/19/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL37 @ 3.5'	11/19/2021	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL38 @ 3.5'	11/19/2021	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL39 @ 1'	11/19/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL40 @ 1'	12/1/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.



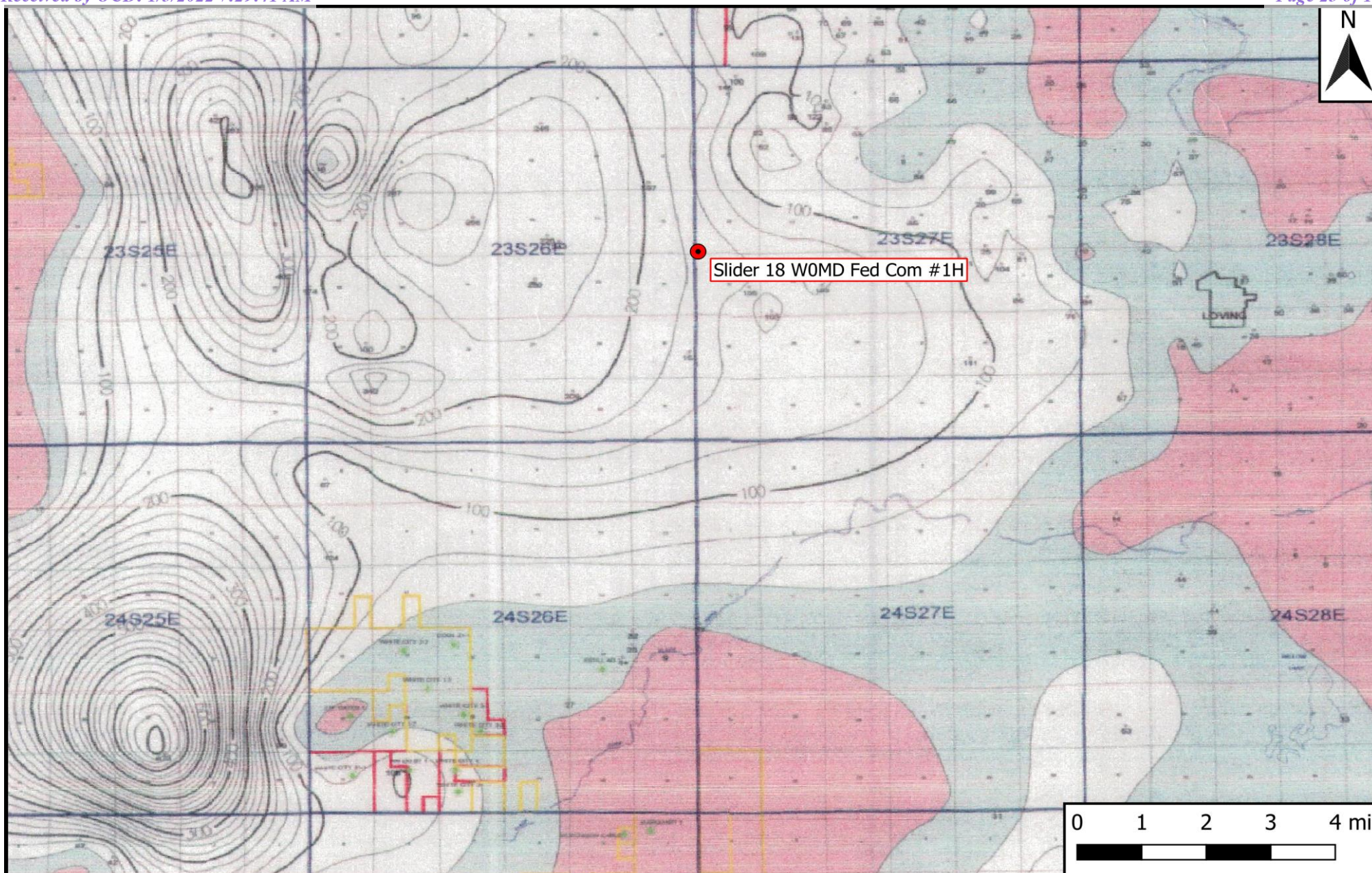
<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>Slider 18 W0MD Fed Com #1H</b> <b>NMOCD Ref. #: nAPP2125031738</b>											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL41 @ 1'	12/1/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL42 @ 1'	12/1/2021	1	In-Situ	<0.050	<0.300	<10.0	36.2	36.2	17.9	54.1	496
FL43 @ 1'	12/1/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL44 @ 1'	12/1/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL45 @ 3.5'	12/1/2021	3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160

Dash (-): Sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
 Mewbourne Oil Company  
 Slider 18 W0MD Fed Com #1H  
 GPS: 32.297924, -104.236742  
 Eddy County

**eTECH**

Environmental & Safety Solutions, Inc.



Drafted: bja

Checked: jwl

Date: 12/20/21
















(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD															
		Sub-		Q	Q	Q											Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y		Distance	Depth	Well	Depth	Water Column
<a href="#">C_03736 POD1</a>		C	ED	2	2	4	13	23S	26E	571677	3574793		1094				
<a href="#">C_01672</a>		C	ED		4	3	13	23S	26E	570750	3573861*		1120		280		80
<a href="#">C_01857</a>		C	ED				13	23S	26E	570949	3574465*		1180		255		197
<a href="#">C_02232</a>		C	ED				13	23S	26E	570949	3574465*		1180		240		200
<a href="#">C_01195</a>		C	ED			2	19	23S	27E	572958	3573260*		1187		180		100
<a href="#">C_01825</a>		C	ED		3	2	13	23S	26E	571151	3574670*		1189		243		221
<a href="#">C_01905</a>		C	ED		2	3	13	23S	26E	570749	3574267*		1241		300		
<a href="#">C_03071</a>		C	ED		2	3	13	23S	26E	570749	3574267*		1241		250		204
<a href="#">C_03348</a>		C	ED	1	3	3	13	23S	26E	570606	3573938		1274		240		200
<a href="#">C_02484 EXPL</a>		CUB	ED		4	1	13	23S	26E	570747	3574672*		1468		280		175
<a href="#">C_01968</a>		C	ED	1	4	1	13	23S	26E	570646	3574771*		1609		247		200

**Average Depth to Water: 175 feet**

Minimum Depth: **80 feet**

Maximum Depth: **221 feet**

**Record Count:** 11

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 571860.63

**Northing (Y):** 3573714.86

**Radius:** 1610

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.


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WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 01672	4	3	13	23S	26E		570750	3573861* 
<hr/>									
Driller License: 259		Driller Company:			SIDES BROTHERS DRILLING				
Driller Name: SIDES, BOYD									
Drill Start Date: 06/06/1976		Drill Finish Date:			06/25/1976		Plug Date:		
Log File Date: 07/15/1976		PCW Rcv Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size: 6.00		Depth Well:			280 feet		Depth Water: 80 feet		
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				240	260	Sandstone/Gravel/Conglomerate			
				270	280	Sandstone/Gravel/Conglomerate			
<hr/>									
Casing Perforations:				Top	Bottom				
				98	120				

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



(quarters are smallest to largest)

(NAD83 UTM in meters)

**Q64 Q16 Q4 Sec Tws Rng**

<b>X</b>	<b>Y</b>
----------	----------

13 23S 26E

570949 3574465\* **Driller Company:** WEST, BILLY GEORGE**Drill Finish Date:** 10/02/1979**Plug Date:**

PCW Rcv Date:

Source: Shallow

### Pipe Discharge Size:

**Estimated Yield:** 12 GPM

**Depth Well:** 255 feet

**Depth Water:** 197 feet

Top	Bottom	Description
-----	--------	-------------

215      255 Sandstone/Gravel/Conglomerate

**Top Bottom**

205      245

**\*UTM location was derived from PLSS - see Help**

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)			
		(quarters are smallest to largest)		(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>
					<b>X</b>
					<b>Y</b>
C	02232		13	23S	26E
					570949 3574465*
<hr/>					
<b>Driller License:</b>	604	<b>Driller Company:</b>	TAYLOR, W.H. SR.		
<b>Driller Name:</b>	W.H. TAYLOR SR.				
<b>Drill Start Date:</b>	09/05/1991	<b>Drill Finish Date:</b>	11/22/1991	<b>Plug Date:</b>	
<b>Log File Date:</b>	12/02/1991	<b>PCW Rev Date:</b>		<b>Source:</b>	Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>	
<b>Casing Size:</b>		<b>Depth Well:</b>	240 feet	<b>Depth Water:</b>	200 feet
<hr/>					
<b>Water Bearing Stratifications:</b>		<b>Top</b>	<b>Bottom</b>	<b>Description</b>	
		221	228	Sandstone/Gravel/Conglomerate	
<hr/>					

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	03736 POD1	2	2	4	13	23S	26E	571677	3574793

**Driller License:** 1632 **Driller Company:** HOPPER PUMP & DRILLING, INC.

**Driller Name:** CALEB CURRY

**Drill Start Date:** 07/17/2014 **Drill Finish Date:** 07/22/2014 **Plug Date:**

**Log File Date:** 07/31/2014 **PCW Rcv Date:** **Source:**

**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**

**Casing Size:** **Depth Well:** **Depth Water:**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY





## Legend

- Site Location
- Well - USGS
- ⬢ 500-Ft Radius
- ⬢ 1,000-Ft Radius
- ⬢ 0.5-Mi Radius

## Figure 5

USGS Well Proximity Map  
Mewbourne Oil Company  
Slider 18 W0MD Fed Com #1H  
GPS: 32.297924, -104.236742  
Eddy County

**eTECH**

Environmental & Safety Solutions, Inc.



Drafted: bja

Checked: jwl

Date: 12/20/21





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USGS Water Resources

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Groundwater

Geographic Area:  
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**i** Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321727104131801

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 321727104131801 23S.27E.19.421232

Eddy County, New Mexico  
Latitude 32°17'27", Longitude 104°13'18" NAD27  
Land-surface elevation 3,190 feet above NAVD88  
The depth of the well is 180 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1966-01-05			D	72019	155.11			1	Z		A
1967-01-19			D	72019	155.28			1	Z		A
1968-01-26			D	72019	155.16			1	Z		A
1969-01-28			D	72019	154.66			1	Z		A
1970-01-20			D	72019	155.82			1	Z		A
1974-01-22			D	72019	156.62			1	Z		A
1975-01-29			D	72019	156.09			1	Z		A
1976-01-13			D	72019	155.14			1	Z		A
1977-02-01			D	72019	155.40			1	Z		A
1978-01-23			D	72019	155.40			1	Z		A
1983-01-25			D	72019	155.65			1	Z		A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1988-03-16			D	72019	153.90			1	Z		A
1993-05-04			D	72019	156.75			1	S		A
1995-07-18			D	72019	156.08			1	S		A
1996-01-23			D	72019	155.55			1	S		A
1998-01-14			D	72019	155.68			1	S		A
2003-01-24			D	72019	160.73			1	S	USGS	A
2018-02-01	00:14 UTC	m	72019	133.22				1	V	USGS	A

## Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>Page Contact Information: [USGS Water Data Support Team](#)

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0.35 0.27 nadww01





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Agency code = usgs

site\_no list =

- 321707104125701

Minimum number of levels = 1

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USGS 321707104125701 23S.27E.20.33414

Eddy County, New Mexico

Latitude 32°17'07", Longitude 104°12'57" NAD27

Land-surface elevation 3,178 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
<input type="text" value="1948-12-22"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="D"/>	<input type="text" value="72019"/>	<input type="text" value="103.00"/>	<input type="text"/>	<input type="text" value="1"/>	<input type="text" value="Z"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels**

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Page Last Modified: 2021-12-28 19:11:11 EST

0.45 0.27 nadww01





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Agency code = usgs  
site\_no list =

- 321852104145201

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 321852104145201 23S.26E.12.34312

Eddy County, New Mexico  
Latitude 32°18'52", Longitude 104°14'52" NAD27  
Land-surface elevation 3,245 feet above NAVD88  
The depth of the well is 270 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1954-01-26			D	72019	188.58			1	Z		A
1955-01-14			D	72019	189.94			1	Z		A
1956-01-10			D	72019	190.45			1	Z		A
1957-01-10			D	72019	191.70			1	Z		A
1958-01-13			D	72019	193.03			1	Z		A
1960-01-12			D	72019	193.43			1	Z		A
1961-01-10			D	72019	194.35			1	Z		A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1962-01-19			D	72019	191.90			1	Z		A
1963-01-16			D	72019	196.03			1	Z		A
1964-01-16			D	72019	197.18			1	Z		A
1965-01-14			D	72019	198.75			1	Z		A
1966-01-11			D	72019	199.75			1	Z		A
1978-01-05			D	72019	199.70			1	Z		A
1983-01-27			D	72019	196.82			1	Z		A

## Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-12-28 19:08:52 EST

0.38 0.24 nadww01



## **Appendix B**

### **Field Data**



## Sample Log

Date: 9-28-21

Project: Slider 18 WOMD Fed Com 1H

Project Number: 14914      Latitude: 32.297924      Longitude: -104.236742

[illegible]

Sample Point = SP #1 @ ## etc

**Floor = FL #1 etc**

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

**Refusal = SP #1 @ 4'-R**

**Soil Intended to be Deferred = SP #1 @ 4' In-Situ**

**Resamples= SP #1 @ 5b or SW #1b**

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas

## Sample Log

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

 Project: \_\_\_\_\_  
 Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Sample ID	PID/Odor	Chloride Conc.	GPS
PFS103' FL103'	—	620	
PFS103 1/2' FL103 1/2'	—	920	
PFS203' FL203'	—	188	
EW1	—	188	
EW2	—	<del>188</del> 136	
SW1	—	188	
SW2	—	252	
PFS106 1/2' FL106 1/2'	—	136	
WFS101' FL	—	572	
WFS201'	—	436	
NW1	—	320	
NW2	—	252	
SW3	—	<del>252</del> 160	
PFS303' FL303'	—	160	
PFS403' FL403'	—	572	
PFS503' FL503'	—	2604	
PFS505' FL505'	—	7216	
PFS603' FL603' FL605'	—	1668 3076 FL607' 444	
FL508'	—	188	
SW4	—	1424 <del>200</del> 292	
FL703' FL705 1/2'	—	2220 1772	
FL707 1/2'	—	964	
FL507 1/2'	—	292	
FL607 1/2'	—	540	
EW3 <del>007 1/2'</del> EN3	—	1140 840 228	
SW5	—	708 592 <del>500</del> 592	
<del>FL707 1/2'</del>	—	1888	
WW	—	708 1424	
FL708' FL708 1/2'	—	648 200	
FL803 1/2' FL808 1/2'	—	1424 324	
FL403	—		
SW5	—	148	
FL907'	—	200	
FL1002 1/2' FL1008'	—	1424 228	
SW6	—	908 540	
FL1102'	—	324	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



# Sample Log

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

Project: Slider 18 WOMD Fed Com 1H

Project Number: 14914      Latitude: 32.297924      Longitude: -104.236742

Sample ID	PID/Odor	Chloride Conc.	GPS
SW7	—	364	
WW2	—	324	
FL12=3 1/2'	—	324	
FL13=3'	—	324	
TT=5' <sup>FL13</sup> <sub>FL13</sub>	—	984	
FL15=8' FL18=8 1/2'	—	592 772	
FL18=8 1/2' FL19=12 1/2'	—	1888 492	
FL12=3'	—	492	
FL13=1'	—	228	
EW4	—	540	
EW5	—	272	
FL14=8'	mild	412	
EW6	—	824 260	
FL14=12 1/2'	—	196	
FL15=11' FL15=7'	—	452 228	
FL17=2 1/2'	—	372	
FL14NW	—	116	
FL14EW	—	196	
FL14=12 1/2'	—	196	
FL16NW	—	332	
FL16WW	—	412	
FL16=16'	—	372	
FL18=3' FL18=4'	—	888 372	
FL19=3'	—	500	
FL20=3' FL20=4' FL20=5'	—	848 824 1028 FL20=8' 332	
FL21=3' FL21=5'	—	1816 196	
FL22=2'	—	296	
FL23=1 1/2' FL23=2 1/2'	—	704 296	
FL24=1 1/2'	—	140	
FL25=2 1/2'	—	332	
FL26=2 1/2'	—	372	
FL27=2 1/2'	—	332	
FL28=2'	—	140	
FL29=1 1/2'	—	332	
FL30=1'	—	412	
WW5	—	168	

Sample Point = SP #1 @ ## etc      Test Trench = TT #1 @ ##      Resamples= SP #1 @ 5b or SW #1b  
Floor = FL #1 etc      Refusal = SP #1 @ 4'-R      Stockpile = Stockpile #1  
Sidewall = SW #1 etc      Soil Intended to be Deferred = SP #1 @ 4' In-Situ      GPS Sample Points, Center of Comp Areas

## Sample Log

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

Project:

Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

[illegible]

**Sample Point = SP #1 @ ## etc**

**Floor = FL #1 etc**

**Sidewall = SW #1 etc**

**Test Trench = TT #1 @ ##**

**Refusal = SP #1 @ 4'-R**

**Soil Intended to be Deferred = SP #1 @ 4' In-Situ**

Resamples= SP #1 @ 5b or SW #1b

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas

## **Appendix C**

### **Photographic Log**



## Photographic Log

<b>Photo Number:</b> 1	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the affected area.	



## Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log

<b>Photo Number:</b> 5	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log


<b>Photo Number:</b> 7	 <p>12/1/21, 10:50 AM +32.297576,-104.237085 ±10.00m 111° E</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	 <p>12/1/21, 10:50 AM +32.297576,-104.237085 ±10.00m 47° NE</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the excavated area.	





## Photographic Log

<b>Photo Number:</b> 9	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 10	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

## Photographic Log

<b>Photo Number:</b> 11	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 12	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	



## **Appendix D**

### **Laboratory Analytical Reports**



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

---

September 30, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLIDER 18 W0MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 09/28/21 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/28/2021	Sampling Date:	09/28/2021
Reported:	09/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 WOMB FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: TT 1 @ SURFACE (H212691-01)**

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	09/29/2021	ND	1.78	89.0	2.00	8.12		
Toluene*	<0.050	0.050	09/29/2021	ND	1.94	96.8	2.00	7.07		
Ethylbenzene*	<0.050	0.050	09/29/2021	ND	1.87	93.4	2.00	8.18		
Total Xylenes*	<0.150	0.150	09/29/2021	ND	5.60	93.3	6.00	9.14		
Total BTEX	<0.300	0.300	09/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	09/29/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2021	ND	229	114	200	2.73	
DRO >C10-C28*	252	10.0	09/29/2021	ND	226	113	200	2.75	
EXT DRO >C28-C36	165	10.0	09/29/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/28/2021	Sampling Date:	09/28/2021
Reported:	09/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: TT 1 @ 1' (H212691-02)**

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	09/29/2021	ND	1.78	89.0	2.00	8.12	
Toluene*	<0.050	0.050	09/29/2021	ND	1.94	96.8	2.00	7.07	
Ethylbenzene*	<0.050	0.050	09/29/2021	ND	1.87	93.4	2.00	8.18	
Total Xylenes*	<0.150	0.150	09/29/2021	ND	5.60	93.3	6.00	9.14	
Total BTEX	<0.300	0.300	09/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/29/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2021	ND	229	114	200	2.73	
DRO >C10-C28*	57.1	10.0	09/29/2021	ND	226	113	200	2.75	
EXT DRO >C28-C36	37.0	10.0	09/29/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/28/2021	Sampling Date:	09/28/2021
Reported:	09/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: TT 2 @ SURFACE (H212691-03)**

BTX 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	09/29/2021	ND	1.78	89.0	2.00	8.12		
Toluene*	<0.050	0.050	09/29/2021	ND	1.94	96.8	2.00	7.07		
Ethylbenzene*	<0.050	0.050	09/29/2021	ND	1.87	93.4	2.00	8.18		
Total Xylenes*	<0.150	0.150	09/29/2021	ND	5.60	93.3	6.00	9.14		
Total BTX	<0.300	0.300	09/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/29/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2021	ND	229	114	200	2.73	
DRO >C10-C28*	<10.0	10.0	09/29/2021	ND	226	113	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/29/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/28/2021	Sampling Date:	09/28/2021
Reported:	09/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: TT 2 @ 1' (H212691-04)**

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	09/29/2021	ND	1.78	89.0	2.00	8.12		
Toluene*	<0.050	0.050	09/29/2021	ND	1.94	96.8	2.00	7.07		
Ethylbenzene*	<0.050	0.050	09/29/2021	ND	1.87	93.4	2.00	8.18		
Total Xylenes*	<0.150	0.150	09/29/2021	ND	5.60	93.3	6.00	9.14		
Total BTEX	<0.300	0.300	09/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/29/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2021	ND	229	114	200	2.73	
DRO >C10-C28*	<10.0	10.0	09/29/2021	ND	226	113	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/29/2021	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/28/2021	Sampling Date:	09/28/2021
Reported:	09/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: TT 3 @ SURFACE (H212691-05)**

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	09/29/2021	ND	1.78	89.0	2.00	8.12		
Toluene*	<0.050	0.050	09/29/2021	ND	1.94	96.8	2.00	7.07		
Ethylbenzene*	<0.050	0.050	09/29/2021	ND	1.87	93.4	2.00	8.18		
Total Xylenes*	<0.150	0.150	09/29/2021	ND	5.60	93.3	6.00	9.14		
Total BTEx	<0.300	0.300	09/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/29/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2021	ND	229	114	200	2.73	
DRO >C10-C28*	16.0	10.0	09/29/2021	ND	226	113	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/29/2021	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	09/28/2021	Sampling Date:	09/28/2021
Reported:	09/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: TT 3 @ 3' (H212691-06)**

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	09/29/2021	ND	1.78	89.0	2.00	8.12		
Toluene*	<0.050	0.050	09/29/2021	ND	1.94	96.8	2.00	7.07		
Ethylbenzene*	<0.050	0.050	09/29/2021	ND	1.87	93.4	2.00	8.18		
Total Xylenes*	<0.150	0.150	09/29/2021	ND	5.60	93.3	6.00	9.14		
Total BTEx	<0.300	0.300	09/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/29/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2021	ND	229	114	200	2.73	
DRO >C10-C28*	<10.0	10.0	09/29/2021	ND	226	113	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/29/2021	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.7 % 38.9-142

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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", is written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-f

Page 9 of 9

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Mewbourne																							
City: Lovington Hobbs State: NM Zip: 88260 88240				Attn: Robbie Russell																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 14914 Project Owner: Robbie Russell				City:																							
Project Name: Slider 18 WMD Fed Com 1H				State: Zip:																							
Project Location: Mewbourne Oil Company				Phone #:																							
Sampler Name: Eric Mojica				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(GRAB OR C) OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H212691																											
1	TT 1e Surf.	G	1			✓				✓			9-28-21		✓	✓	✓										
2	TT 1a 1	G	1			✓				✓			9-28-21		✓	✓	✓										
3	TT 2e Surf.	G	1			✓				✓			9-28-21		✓	✓	✓										
4	TT 2a 1	G	1			✓				✓			9-28-21		✓	✓	✓										
5	TT 3e Surf.	G	1			✓				✓			9-28-21		✓	✓	✓										
6	TT 3e 3	G	1			✓				✓			9-28-21		✓	✓	✓										
<p>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.</p>																											
Relinquished By:		Date: 9-28-21		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		<p>REMARKS:</p> <p>Please email results to pm@etechenv.com.</p>																	
Time: 1405		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																					
Relinquished By: Eric Mojica		Date:		Received By: Tamara [Signature]		Time:																					
Delivered By: (Circle One) #113		Sample Condition		CHECKED BY:																							
Sampler - UPS - Bus - Other: 16.7e / Corrected 16.2		Cool Intact		(Initials)																							
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		J.O.																							

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

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November 03, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLIDER 18 W0MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 10/29/21 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 WOMB FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 1 @ 6.5' (H213066-01)**

BTX 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	11/01/2021	ND	2.14	107	2.00	5.63	
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87	
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26	
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62	
Total BTX	<0.300	0.300	11/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/02/2021	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	11/01/2021	ND	197	98.7	200	9.12	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	215	108	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 2 @ 3' (H213066-02)**

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	11/01/2021	ND	2.14	107	2.00	5.63	
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87	
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26	
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62	
Total BTEx	<0.300	0.300	11/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/02/2021	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	11/01/2021	ND	197	98.7	200	9.12	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	215	108	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.4 % 38.9-142

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 3 @ 3' (H213066-03)**

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	11/01/2021	ND	2.14	107	2.00	5.63	
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87	
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26	
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62	
Total BTEx	<0.300	0.300	11/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/02/2021	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	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 4 @ 3' (H213066-04)**

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	11/01/2021	ND	2.14	107	2.00	5.63	
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87	
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26	
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62	
Total BTEx	<0.300	0.300	11/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	11/02/2021	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	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 5 @ 8' (H213066-05)**

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	11/01/2021	ND	2.14	107	2.00	5.63	
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87	
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26	
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62	
Total BTEx	<0.300	0.300	11/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/02/2021	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	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: NW 1 (H213066-06)**

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	11/01/2021	ND	2.14	107	2.00	5.63	
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87	
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26	
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62	
Total BTEx	<0.300	0.300	11/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/02/2021	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	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: NW 2 (H213066-07)**

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	11/01/2021	ND	2.14	107	2.00	5.63	
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87	
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26	
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62	
Total BTEx	<0.300	0.300	11/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EW 1 (H213066-08)**

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	11/01/2021	ND	2.14	107	2.00	5.63		
Toluene*	<0.050	0.050	11/01/2021	ND	2.01	101	2.00	5.87		
Ethylbenzene*	<0.050	0.050	11/01/2021	ND	2.02	101	2.00	6.26		
Total Xylenes*	<0.150	0.150	11/01/2021	ND	6.14	102	6.00	6.62		
Total BTEX	<0.300	0.300	11/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: EW 2 (H213066-09)**

BTX 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	11/02/2021	ND	2.21	111	2.00	4.77		
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48		
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52		
Total BTX	<0.300	0.300	11/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.7 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: SW 1 (H213066-10)**

BTX 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	11/02/2021	ND	2.21	111	2.00	4.77		
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48		
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52		
Total BTX	<0.300	0.300	11/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 66.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.5 % 38.9-142

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: SW 2 (H213066-11)**

BTX 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	11/02/2021	ND	2.21	111	2.00	4.77		
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48		
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52		
Total BTX	<0.300	0.300	11/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/02/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 71.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	10/29/2021	Sampling Date:	10/29/2021
Reported:	11/03/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: SW 3 (H213066-12)**

BTX 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	11/02/2021	ND	2.21	111	2.00	4.77	
Toluene*	<0.050	0.050	11/02/2021	ND	2.09	105	2.00	4.48	
Ethylbenzene*	<0.050	0.050	11/02/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	11/02/2021	ND	6.46	108	6.00	3.52	
Total BTX	<0.300	0.300	11/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/02/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2021	ND	220	110	200	2.82	
DRO >C10-C28*	<10.0	10.0	11/01/2021	ND	216	108	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	11/01/2021	ND					

Surrogate: 1-Chlorooctane 72.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.0 % 38.9-142

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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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

No  
Rush

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

1 of 2

Page 15 of 16

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: <u>Mewbourne</u>																							
City: <u>Levington Hobbs</u> State: NM Zip: <u>88260-88240</u>				Attn: <u>Robbie Runnels</u>																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: <u>14914</u> Project Owner: <u>Robbie Runnels</u>				City:																							
Project Name: <u>Slider 18 WMD Fed Com 001H</u>				State: Zip:																							
Project Location: <u>Mewbourne Oil Company</u>				Phone #:																							
Sampler Name: <u>Eric Mejia</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													
<u>H213066</u>																											
1	FL1 @ 6 1/2'	C	1			✓				✓			10-29-21		✓	✓	✓										
2	FL2 @ 3'	C	1			✓				✓					✓	✓	✓										
3	FL3 @ 3'	C	1			✓				✓					✓	✓	✓										
4	FL4 @ 3'	C	1			✓				✓					✓	✓	✓										
5	FL5 @ 8'	C	1			✓				✓					✓	✓	✓										
6	NW1	C	1			✓				✓					✓	✓	✓										
7	NW2	C	1			✓				✓					✓	✓	✓										
8	EW1	C	1			✓				✓					✓	✓	✓										
9	EW2	C	1			✓				✓					✓	✓	✓										
10	SW1	C	1			✓				✓					✓	✓	✓										
<small>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.</small>																											
Relinquished By:		Date: <u>10-29-21</u>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																			
Relinquished By: <u>Eric Mejia</u>		Time: <u>1615</u>		Received By: <u>Laura Alvarado</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:		REMARKS:																					
Relinquished By:		Time:		Received By:		Please email results to pm@etechenv.com.																					
Delivered By: (Circle One) <u>6.0c</u> <u>C-0.5c</u>				Sample Condition				CHECKED BY:																			
Sampler - UPS - Bus - Other: <u>5.5c</u> <u>#13</u>				Cool Intact				(Initials)																			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			

FORM-006  
Revision 1.0

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

No.  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

272

Page 16 of 16

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																													
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																													
Address: P.O. Box 301				Company: Meubourne																																	
City: Lovington Hobbs State: NM Zip: 88260 88240				Attn: Robbie Runnels																																	
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																	
Project #: Project Owner:				City:																																	
Project Name: Slider 18 NOMD Fed Com DO1H				State: Zip:																																	
Project Location: Meubourne Oil Company				Phone #:																																	
Sampler Name: Eric Mojica				Fax #:																																	
FOR LAB USE ONLY				(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																									
Lab I.D.		Sample I.D.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H2130166				C		1																10-29-21															
12		SW3		C		1																															

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November 11, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLIDER 18 W0MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 11/05/21 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 WOMB FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: FL 4 @ 4' (H213149-01)**

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	11/08/2021	ND	432	108	400	3.77		

**Sample ID: FL 6 @ 7.5' (H213149-02)**

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	11/08/2021	ND	1.93	96.7	2.00	4.39	
Toluene*	<0.050	0.050	11/08/2021	ND	1.96	98.2	2.00	3.44	
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.92	96.1	2.00	2.39	
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.86	97.6	6.00	3.19	
Total BTX	<0.300	0.300	11/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.3-133

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/05/2021  
 Reported: 11/11/2021  
 Project Name: SLIDER 18 W0MD FED COM 1H  
 Project Number: 14914  
 Project Location: MEWBOURNE

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Yvonne Muniz

**Sample ID: FL 6 @ 7.5' (H213149-02)**

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctadecane	71.0 %	38.9-142								

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: FL 7 @ 8.5' (H213149-03)**

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	11/08/2021	ND	1.93	96.7	2.00	4.39		
Toluene*	<0.050	0.050	11/08/2021	ND	1.96	98.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.92	96.1	2.00	2.39		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.86	97.6	6.00	3.19		
Total BTEx	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

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	11/08/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/08/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: FL 8 @ 8.5' (H213149-04)**

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	11/08/2021	ND	1.93	96.7	2.00	4.39		
Toluene*	<0.050	0.050	11/08/2021	ND	1.96	98.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.92	96.1	2.00	2.39		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.86	97.6	6.00	3.19		
Total BTEx	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

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	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/08/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: FL 9 @ 7.5' (H213149-05)**

BTX 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	11/08/2021	ND	1.98	99.0	2.00	6.47		
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20		
Total BTX	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

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	11/08/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/08/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2021	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.5 % 38.9-142

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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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: FL 10 @ 8' (H213149-06)**

BTX 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	11/08/2021	ND	1.98	99.0	2.00	6.47	
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82	
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20	
Total BTX	<0.300	0.300	11/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

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	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/08/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: FL 11 @ 2' (H213149-07)**

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	11/08/2021	ND	1.98	99.0	2.00	6.47		
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20		
Total BTEx	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

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	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/08/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2021	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: SW 4 (H213149-08)**

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	11/08/2021	ND	1.98	99.0	2.00	6.47		
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20		
Total BTEx	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/08/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: SW 5 (H213149-09)**

BTX 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	11/08/2021	ND	1.98	99.0	2.00	6.47		
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20		
Total BTX	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2021	ND	216	108	200	6.47	
DRO >C10-C28*	<10.0	10.0	11/08/2021	ND	214	107	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2021	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: SW 6 (H213149-10)**

BTX 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	11/08/2021	ND	1.98	99.0	2.00	6.47		
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20		
Total BTX	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2021	ND	213	107	200	8.26	
DRO >C10-C28*	<10.0	10.0	11/09/2021	ND	213	107	200	9.88	
EXT DRO >C28-C36	<10.0	10.0	11/09/2021	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: SW 7 (H213149-11)**

BTX 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	11/08/2021	ND	1.98	99.0	2.00	6.47		
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82		
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20		
Total BTX	<0.300	0.300	11/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2021	ND	213	107	200	8.26	
DRO >C10-C28*	<10.0	10.0	11/09/2021	ND	213	107	200	9.88	
EXT DRO >C28-C36	<10.0	10.0	11/09/2021	ND					

Surrogate: 1-Chlorooctane 68.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/05/2021	Sampling Date:	11/04/2021
Reported:	11/11/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Yvonne Muniz
Project Location:	MEWBOURNE		

**Sample ID: WW 1 (H213149-12)**

BTX 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	11/08/2021	ND	1.98	99.0	2.00	6.47	
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82	
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20	
Total BTX	<0.300	0.300	11/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/08/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2021	ND	213	107	200	8.26	
DRO >C10-C28*	<10.0	10.0	11/09/2021	ND	213	107	200	9.88	
EXT DRO >C28-C36	<10.0	10.0	11/09/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/05/2021  
 Reported: 11/11/2021  
 Project Name: SLIDER 18 W0MD FED COM 1H  
 Project Number: 14914  
 Project Location: MEWBOURNE

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Yvonne Muniz

**Sample ID: WW 2 (H213149-13)**

BTX 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	11/08/2021	ND	1.98	99.0	2.00	6.47	
Toluene*	<0.050	0.050	11/08/2021	ND	1.91	95.5	2.00	6.82	
Ethylbenzene*	<0.050	0.050	11/08/2021	ND	1.88	93.8	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/08/2021	ND	5.68	94.6	6.00	8.20	
Total BTX	<0.300	0.300	11/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/08/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2021	ND	213	107	200	8.26	
DRO >C10-C28*	<10.0	10.0	11/09/2021	ND	213	107	200	9.88	
EXT DRO >C28-C36	<10.0	10.0	11/09/2021	ND					

Surrogate: 1-Chlorooctane 65.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 62.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/05/2021  
 Reported: 11/11/2021  
 Project Name: SLIDER 18 W0MD FED COM 1H  
 Project Number: 14914  
 Project Location: MEWBOURNE

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Yvonne Muniz

**Sample ID: EW 3 (H213149-14)**

BTX 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	11/09/2021	ND	1.98	99.0	2.00	6.47		
Toluene*	<0.050	0.050	11/09/2021	ND	1.91	95.5	2.00	6.82		
Ethylbenzene*	<0.050	0.050	11/09/2021	ND	1.88	93.8	2.00	7.65		
Total Xylenes*	<0.150	0.150	11/09/2021	ND	5.68	94.6	6.00	8.20		
Total BTX	<0.300	0.300	11/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

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	11/08/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2021	ND	213	107	200	8.26	
DRO >C10-C28*	<10.0	10.0	11/09/2021	ND	213	107	200	9.88	
EXT DRO >C28-C36	<10.0	10.0	11/09/2021	ND					

Surrogate: 1-Chlorooctane 69.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.1 % 38.9-142

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\*=Accredited Analyte

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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

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

No  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1+2

Page 17 of 18

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																																			
Address: P.O. Box 301				Company: Newbourne																																							
City: Lexington Hobbs State: NM Zip: 88200 88240				Attn: Robbie Ruane																																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																							
Project #: 14914 Project Owner: Robbie Ruane				City:																																							
Project Name: Slider 18 WMD Fed Com 001H				State: Zip:																																							
Project Location: Newbourne Oil Company				Phone #:																																							
Sampler Name: Eric Mojica				Fax #:																																							
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		G/RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING																															
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME																	
H21349						C 1				✓								✓				11-4-21				✓																	
1 FL 404						C 1				✓								✓								✓		✓		✓													
2 FL 607 1/2						C 1				✓								✓								✓		✓		✓													
3 FL 708 1/2						C 1				✓								✓								✓		✓		✓													
4 FL 808 1/2						C 1				✓								✓								✓		✓		✓													
5 FL 907 1/2						C 1				✓								✓								✓		✓		✓													
6 FL 1008						C 1				✓								✓								✓		✓		✓													
7 FL 1102						C 1				✓								✓								✓		✓		✓													
8 SW 2 SW 4						C 1				✓								✓								✓		✓		✓													
9 SW 5						C 1				✓								✓								✓		✓		✓													
10 SW 6						C 1				✓								✓								✓		✓		✓													

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<b>Relinquished By:</b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <i>Eric Mojica</i> </div>	<b>Date:</b> 11-4-21 <b>Time:</b> 16:20	<b>Received By:</b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <i>Yvonne M...</i> </div>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>  
<b>Relinquished By:</b>  	<b>Date:</b>  <b>Time:</b>  	<b>Received By:</b>  	<b>REMARKS:</b>  

Please email results to [pm@etechenv.com](mailto:pm@etechenv.com).

<b>Delivered By: (Circle One)</b>  <b>Sampler - UPS - Bus - Other:</b>	# 113 5:9	<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>CHECKED BY:</b> (Initials) <i>Um</i>
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-15% correction

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

† Cardinal c  
5.40 ✓



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

No.  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $2+2$ 

Page 18 of 18

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FORM-006  
Revision 1.0

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5.4°



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

---

November 22, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLIDER 18 W0MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 11/17/21 15:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 WOMB FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: NW 3 (H213301-01)**

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	11/19/2021	ND	1.87	93.4	2.00	1.21		
Toluene*	<0.050	0.050	11/19/2021	ND	1.89	94.3	2.00	2.48		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.85	92.6	2.00	2.73		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.61	93.5	6.00	3.00		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	196	97.9	200	5.50	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	205	102	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.6 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: EW 4 (H213301-02)**

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	11/19/2021	ND	1.87	93.4	2.00	1.21		
Toluene*	<0.050	0.050	11/19/2021	ND	1.89	94.3	2.00	2.48		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.85	92.6	2.00	2.73		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.61	93.5	6.00	3.00		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	196	97.9	200	5.50	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	205	102	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.0 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: EW 5 (H213301-03)**

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	11/19/2021	ND	1.87	93.4	2.00	1.21		
Toluene*	<0.050	0.050	11/19/2021	ND	1.89	94.3	2.00	2.48		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.85	92.6	2.00	2.73		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.61	93.5	6.00	3.00		
Total BTEx	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	196	97.9	200	5.50	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	205	102	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.8 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: EW 6 (H213301-04)**

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	11/19/2021	ND	1.87	93.4	2.00	1.21		
Toluene*	<0.050	0.050	11/19/2021	ND	1.89	94.3	2.00	2.48		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.85	92.6	2.00	2.73		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.61	93.5	6.00	3.00		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/18/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	196	97.9	200	5.50	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	205	102	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 12 @ 3.5' (H213301-05)**

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	11/19/2021	ND	1.87	93.4	2.00	1.21		
Toluene*	<0.050	0.050	11/19/2021	ND	1.89	94.3	2.00	2.48		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.85	92.6	2.00	2.73		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.61	93.5	6.00	3.00		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/18/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	196	97.9	200	5.50	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	205	102	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.7 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 13 @ 3' (H213301-06)**

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	11/19/2021	ND	1.87	93.4	2.00	1.21		
Toluene*	<0.050	0.050	11/19/2021	ND	1.89	94.3	2.00	2.48		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.85	92.6	2.00	2.73		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.61	93.5	6.00	3.00		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.0 % 38.9-142

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 14 @ 12.5' (H213301-07)**

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	11/19/2021	ND	1.87	93.4	2.00	1.21		
Toluene*	<0.050	0.050	11/19/2021	ND	1.89	94.3	2.00	2.48		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.85	92.6	2.00	2.73		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.61	93.5	6.00	3.00		
Total BTEx	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.0 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 11/17/2021  
 Reported: 11/22/2021  
 Project Name: SLIDER 18 W0MD FED COM 1H  
 Project Number: 14914  
 Project Location: MEWBOURNE

Sampling Date: 11/17/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: FL 14 @ EW (H213301-08)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551	
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700	
Total BTX	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/18/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.1 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 14 @ NW (H213301-09)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551		
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

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	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 15 @ 16' (H213301-10)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551	
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700	
Total BTX	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

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	11/18/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.1 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 16 @ 16' (H213301-11)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551		
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/18/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 16 @ NW (H213301-12)**

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	11/19/2021	ND	1.95	97.3	2.00	0.551		
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700		
Total BTEx	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

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	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 16 @ WW (H213301-13)**

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	11/19/2021	ND	1.95	97.3	2.00	0.551		
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700		
Total BTEX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

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	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.6 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 17 @ 2.5' (H213301-14)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551		
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.1 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 18 @ 4' (H213301-15)**

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	11/19/2021	ND	1.95	97.3	2.00	0.551	
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700	
Total BTEx	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/18/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 19 @ 3' (H213301-16)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551		
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	11/18/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 20 @ 8' (H213301-17)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551	
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700	
Total BTX	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/18/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 21 @ 5' (H213301-18)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551	
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700	
Total BTX	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

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	11/18/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.9 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 22 @ 2' (H213301-19)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551	
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52	
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06	
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700	
Total BTX	<0.300	0.300	11/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/18/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/17/2021	Sampling Date:	11/17/2021
Reported:	11/22/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 23 @ 2.5' (H213301-20)**

BTX 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	11/19/2021	ND	1.95	97.3	2.00	0.551		
Toluene*	<0.050	0.050	11/19/2021	ND	1.93	96.6	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/19/2021	ND	1.89	94.7	2.00	1.06		
Total Xylenes*	<0.150	0.150	11/19/2021	ND	5.77	96.2	6.00	0.700		
Total BTX	<0.300	0.300	11/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

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	11/18/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2021	ND	189	94.6	200	4.47	
DRO >C10-C28*	<10.0	10.0	11/19/2021	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	11/19/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



---

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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 "Mike Snyder".

---

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

N.  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1.42

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Creashaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: P.O. Box 301				Company: Maubourne																																					
City: Lexington Hills State: NM Zip: 88260 88240				Attn: Robbie Runcle																																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																					
Project #: 14914 Project Owner: Robbie Runcle				City:																																					
Project Name: Slider 18 WMD Fed Com 001H				State: Zip:																																					
Project Location: Maubourne Oil Company				Phone #:																																					
Sampler Name: Eric Mojica				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H213301																																									
1		NW 3		C		1						✓										✓		✓		11-17-21				✓											
2		EW 4		C		1						✓										✓		✓						✓											
3		EW 5		C		1						✓										✓		✓						✓											
4		EW 6		C		1						✓										✓		✓						✓											
5		FL 12 @ 3 1/2'		C		1						✓										✓		✓						✓											
6		FL 13 @ 3'		C		1						✓										✓		✓						✓											
7		FL 14 @ 12 1/2'		C		1						✓										✓		✓						✓											
8		FL 14 EW		C		1						✓										✓		✓						✓											
9		FL 14 NW		C		1						✓										✓		✓						✓											
10		FL 15 @ 16'		C		1						✓										✓		✓						✓											
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Relinquished By: E. Mojica				Date: 11-17-21		Received By: Godi Benson				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																											
Relinquished By:				Time: 15:43		Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																											
				Date:						REMARKS:																															
				Time:																																					
Delivered By: (Circle One) 5.60 #113				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																													
Sampler - UPS - Bus - Other: - 5.60 correction				Cool Intact				(Initials)																																	
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Yes <input checked="" type="checkbox"/> No																																	

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

No  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

२ न ३

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

Company Name:		Etech Environmental & Safety Solutions, Inc.					
<b>Project Manager:</b> Lance Crenshaw							
<b>Address:</b> P.O. Box 301							
<b>City:</b> Lovington Hobbs,		<b>State:</b> NM		<b>Zip:</b> 88260-88240			
<b>Phone #:</b> (575) 396-2378		<b>Fax #:</b> (575) 396-1429					
<b>Project #:</b> 14914		<b>Project Owner:</b> Robbie Rucals					
<b>Project Name:</b> Slider 18 WMD Fed Com 001H							
<b>Project Location:</b> Menbourne Oil Company							
<b>Sampler Name:</b> Eric Mojica							
<div style="float: left; width: 10%;">FOR LAB USE ONLY</div> <div style="clear: both;"></div>							
Lab I.D.		Sample I.D.		MATRIX		PRESERV.	SAMPLING
		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
				SLUDGE	OTHER :	ACID/BASE	ICE / COOL
						OTHER :	
							DATE
							TIME
H213301							
11	FL16-16'	C	1				✓
12	FL16-16'W	C	1				✓
13	FL16-16'W	C	1				✓
14	FL17-2 1/2'	C	1				✓
15	FL18-4'	C	1				✓
16	FL19-3'	C	1				✓
17	FL20-8'	C	1				✓
18	FL21-5'	C	1				✓
19	FL22-2'	C	1				✓
20	FL23-2 1/2'	C	1				✓

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Relinquished By:  2. Mj  Relinquished By:	Date: Time:	Received By:  Jodi Benson  Received By:	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
	Date: Time:		Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
			REMARKS:			
			Please email results to pm@etechenv.com.			

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)
5.60	[X] Yes [ ] No	JTA
- .5	[ ] Yes [X] No	
#113		

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Released to Imaging: 2/8/2022 2:22:15 PM



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

---

November 30, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLIDER 18 W0MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 11/19/21 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/18/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 WOMD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 24 @ 1.5' (H213342-01)**

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	11/24/2021	ND	2.02	101	2.00	5.07	
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82	
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88	
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16	
Total BTEX	<0.300	0.300	11/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/18/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 25 @ 2.5' (H213342-02)**

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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTEx	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/18/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 26 @ 2.5' (H213342-03)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTX	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/18/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 27 @ 2.5' (H213342-04)**

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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTEx	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/18/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 28 @ 2' (H213342-05)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTX	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/18/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 29 @ 1.5' (H213342-06)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTX	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/18/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 30 @ 1' (H213342-07)**

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	11/24/2021	ND	2.02	101	2.00	5.07	
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82	
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88	
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16	
Total BTEX	<0.300	0.300	11/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.8 % 38.9-142

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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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 31 @ 4' (H213342-08)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07	
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82	
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88	
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16	
Total BTX	<0.300	0.300	11/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 32 @ 1.5' (H213342-09)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTX	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 33 @ 1.5' (H213342-10)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTX	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 34 @ 1' (H213342-11)**

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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTEx	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/24/2021	ND	228	114	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/24/2021	ND	204	102	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	11/24/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.9 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 35 @ 1' (H213342-12)**

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	11/24/2021	ND	2.02	101	2.00	5.07	
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82	
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88	
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16	
Total BTEX	<0.300	0.300	11/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 73.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.0 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 36 @ 1' (H213342-13)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07	
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82	
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88	
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16	
Total BTX	<0.300	0.300	11/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 37 @ 3.5' (H213342-14)**

BTX 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	11/24/2021	ND	2.02	101	2.00	5.07		
Toluene*	<0.050	0.050	11/24/2021	ND	1.87	93.6	2.00	7.82		
Ethylbenzene*	<0.050	0.050	11/24/2021	ND	1.83	91.4	2.00	5.88		
Total Xylenes*	<0.150	0.150	11/24/2021	ND	5.68	94.7	6.00	6.16		
Total BTX	<0.300	0.300	11/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

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	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 38 @ 3.5' (H213342-15)**

BTX 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	11/29/2021	ND	2.06	103	2.00	2.13		
Toluene*	<0.050	0.050	11/29/2021	ND	2.02	101	2.00	3.33		
Ethylbenzene*	<0.050	0.050	11/29/2021	ND	1.86	93.1	2.00	5.30		
Total Xylenes*	<0.150	0.150	11/29/2021	ND	5.91	98.4	6.00	5.15		
Total BTX	<0.300	0.300	11/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 73.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: FL 39 @ 1' (H213342-16)**

BTX 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	11/29/2021	ND	2.06	103	2.00	2.13	
Toluene*	<0.050	0.050	11/29/2021	ND	2.02	101	2.00	3.33	
Ethylbenzene*	<0.050	0.050	11/29/2021	ND	1.86	93.1	2.00	5.30	
Total Xylenes*	<0.150	0.150	11/29/2021	ND	5.91	98.4	6.00	5.15	
Total BTX	<0.300	0.300	11/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.2 % 38.9-142

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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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: WW 3 (H213342-17)**

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	11/29/2021	ND	2.06	103	2.00	2.13		
Toluene*	<0.050	0.050	11/29/2021	ND	2.02	101	2.00	3.33		
Ethylbenzene*	<0.050	0.050	11/29/2021	ND	1.86	93.1	2.00	5.30		
Total Xylenes*	<0.150	0.150	11/29/2021	ND	5.91	98.4	6.00	5.15		
Total BTEx	<0.300	0.300	11/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.8 % 38.9-142

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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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: WW 4 (H213342-18)**

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	11/29/2021	ND	2.06	103	2.00	2.13		
Toluene*	<0.050	0.050	11/29/2021	ND	2.02	101	2.00	3.33		
Ethylbenzene*	<0.050	0.050	11/29/2021	ND	1.86	93.1	2.00	5.30		
Total Xylenes*	<0.150	0.150	11/29/2021	ND	5.91	98.4	6.00	5.15		
Total BTEx	<0.300	0.300	11/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: WW 5 (H213342-19)**

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	11/29/2021	ND	2.06	103	2.00	2.13		
Toluene*	<0.050	0.050	11/29/2021	ND	2.02	101	2.00	3.33		
Ethylbenzene*	<0.050	0.050	11/29/2021	ND	1.86	93.1	2.00	5.30		
Total Xylenes*	<0.150	0.150	11/29/2021	ND	5.91	98.4	6.00	5.15		
Total BTEx	<0.300	0.300	11/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/23/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	<10.0	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	11/19/2021	Sampling Date:	11/19/2021
Reported:	11/30/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: NW 4 (H213342-20)**

BTX 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	11/29/2021	ND	2.06	103	2.00	2.13	
Toluene*	<0.050	0.050	11/29/2021	ND	2.02	101	2.00	3.33	
Ethylbenzene*	<0.050	0.050	11/29/2021	ND	1.86	93.1	2.00	5.30	
Total Xylenes*	<0.150	0.150	11/29/2021	ND	5.91	98.4	6.00	5.15	
Total BTX	<0.300	0.300	11/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/23/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	211	105	200	2.97	
DRO >C10-C28*	38.7	10.0	11/23/2021	ND	194	97.1	200	0.0891	
EXT DRO >C28-C36	19.4	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 68.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

No  
Rush

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

1. + 2

Company Name: Etch Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: P.O. Box 301				Company: Mewbourne																											
City: <del>Lovington</del> Hobbs State: NM Zip: 88240				Attn: Robbie Runnels																											
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																											
Project #: 14914 Project Owner: Robbie Runnels				City:																											
Project Name: Slider 18 WMD Fed Cam 001H				State: Zip:																											
Project Location: Mewbourne Oil Company				Phone #:																											
Sampler Name: Eric Mojica				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			
H213342																															
1 FL24 = 1 1/2'				C		1																									
2 FL25 = 2 1/2'				C		1																									
3 FL26 = 2 1/2'				C		1																									
4 FL27 = 2 1/2'				C		1																									
5 FL28 = 2'				C		1																									
6 FL29 = 1 1/2'				C		1																									
7 FL30 = 1'				C		1																									
8 FL31 = 4'				C		1																									
9 FL32 = 1 1/2'				C		1																									
10 FL33 = 1 1/2'				C		1																									

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Relinquished By:	Date: 11-18-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Eric Mojica</i>	Time: 1608	<i>Samara Oldaker</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) 5.5° C-0.5°			Sample Condition	
Sampler - UPS - Bus - Other: 5.0° #113			Cool Intact	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			CHECKED BY: (Initials)	
			T.O.	

Please email results to pm@etechenv.com.

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

N.  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 + 2

Page 24 of 24

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

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December 06, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLIDER 18 W0MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/01/21 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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".

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 WOMB FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: NW 5 (H213443-01)**

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	12/02/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.99	99.8	6.00	4.40		
Total BTX	<0.300	0.300	12/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/02/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2021	ND	221	110	200	7.12	
DRO >C10-C28*	72.2	10.0	12/03/2021	ND	221	111	200	1.58	QR-03
EXT DRO >C28-C36	49.3	10.0	12/03/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 121 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: NW 6 (H213443-02)**

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	12/02/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.99	99.8	6.00	4.40		
Total BTEX	<0.300	0.300	12/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/02/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2021	ND	221	110	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/03/2021	ND	221	111	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	12/03/2021	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-133

Surrogate: 1-Chlorooctadecane 126 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: NW 7 (H213443-03)**

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	12/02/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/02/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	223	112	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	236	118	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 129 % 44.3-133

Surrogate: 1-Chlorooctadecane 136 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: NW 9 (H213443-04)**

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	12/02/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/02/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	221	110	200	7.12	
DRO >C10-C28*	13.6	10.0	12/04/2021	ND	221	111	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: EW 7 (H213443-05)**

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	12/02/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/02/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/02/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/02/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	223	112	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	236	118	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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**Analytical Results For:**

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: EW 8 (H213443-06)**

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	12/03/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/03/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/03/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/03/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/02/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	223	112	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	236	118	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 40 @ 1' (H213443-07)**

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	12/03/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/03/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/03/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/03/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/02/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	223	112	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	236	118	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 41 @ 1' (H213443-08)**

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	12/03/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/03/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/03/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/03/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/02/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	223	112	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	236	118	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 42 @ 1' (H213443-09)**

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	12/03/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/03/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/03/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/03/2021	ND	5.99	99.8	6.00	4.40		
Total BTEX	<0.300	0.300	12/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/02/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2021	ND	221	110	200	7.12	
DRO >C10-C28*	36.2	10.0	12/04/2021	ND	221	111	200	1.58	
EXT DRO >C28-C36	17.9	10.0	12/04/2021	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 43 @ 1' (H213443-10)**

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	12/03/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/03/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/03/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/03/2021	ND	5.99	99.8	6.00	4.40		
Total BTEX	<0.300	0.300	12/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/02/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	223	112	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	236	118	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 124 % 44.3-133

Surrogate: 1-Chlorooctadecane 125 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 44 @ 1' (H213443-11)**

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	12/03/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/03/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/03/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/03/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/02/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2021	ND	223	112	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/02/2021	ND	236	118	200	0.132	
EXT DRO >C28-C36	<10.0	10.0	12/02/2021	ND					

Surrogate: 1-Chlorooctane 132 % 44.3-133

Surrogate: 1-Chlorooctadecane 135 % 38.9-142

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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/01/2021	Sampling Date:	12/01/2021
Reported:	12/06/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	14914	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

**Sample ID: FL 45 @ 3.5' (H213443-12)**

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	12/03/2021	ND	1.93	96.3	2.00	5.89		
Toluene*	<0.050	0.050	12/03/2021	ND	1.98	99.0	2.00	5.26		
Ethylbenzene*	<0.050	0.050	12/03/2021	ND	1.97	98.3	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/03/2021	ND	5.99	99.8	6.00	4.40		
Total BTEx	<0.300	0.300	12/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/02/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2021	ND	221	110	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/03/2021	ND	221	111	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	12/03/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 114 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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





# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <u>Lance Creashev</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: <u>Meubourne</u>																							
City: <u>Livingston Hobbs</u> State: NM Zip: <u>88240</u>				Attn: <u>Robbie Rannels</u>																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: <u>14914</u> Project Owner: <u>Robbie Rannels</u>				City:																							
Project Name: <u>Slider 18 NOMD Fed Com 001H</u>				State: Zip:																							
Project Location: <u>Meubourne Oil Company</u>				Phone #:																							
Sampler Name: <u>Eric Mojica</u>				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME													
<u>H213443</u>																											
<u>1</u>	<u>NW 5</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>12-1-21</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>2</u>	<u>NW 6</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>3</u>	<u>NW 7</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>4</u>	<u>NW 9</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>5</u>	<u>EW 7</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>6</u>	<u>EW 8</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>7</u>	<u>FL 4001</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>8</u>	<u>FL 4101</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>9</u>	<u>FL 4201</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<u>10</u>	<u>FL 4301</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>3</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>										
<p>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.</p>																											
Relinquished By:		Date: <u>12-1-21</u>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:																	
<u>Eric Mojica</u>		Time: <u>10:35</u>		<u>Godi Benson</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:																							
		Time:								Please email results to pm@etechenv.com.																	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:																							
Sampler - UPS - Bus - Other: <u>5.7</u>		Cool Intact <u>5.22</u>		<u>gja</u>		<u>#113</u>																					
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)																							





No  
Rush

**ARDINAL LABORATORIES**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2. f. 2

Page 16 of 16

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																									
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																									
Address: P.O. Box 301				Company: Mewbourne																													
City: Lovington Hobbs State: NM Zip: 88240				Attn: Robbie Ruane																													
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																													
Project #: 14914 Project Owner: Robbie Ruane				City:																													
Project Name: Slider 18 WMD Fed Com 001H				State: Zip:																													
Project Location: Mewbourne Oil Company				Phone #:																													
Sampler Name: Eric Mojica				Fax #:																													
FOR LAB USE ONLY				MATRIX		PRESERV														SAMPLING													
Lab I.D.		Sample I.D.																															
H213443																																	
11 #12		FL 44-1		✓		✓														12-1-21													
		FL 45-3 1/2		✓		✓		12-1-21																									
<p><small>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.</small></p>																																	
Relinquished By: E. mojica				Date: 12-1-21				Received By: Jodi Benson				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																					
				Time: 16:35								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																					
Relinquished By:				Date:				Received By:				REMARKS:																					
				Time:																													
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																					
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)				#113																					
5.1				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																													
5.2				Yes <input type="checkbox"/> No <input type="checkbox"/>																													



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---

December 09, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SLIDER 18 W0MD FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/07/21 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	12/07/2021	Sampling Date:	12/07/2021
Reported:	12/09/2021	Sampling Type:	Soil
Project Name:	SLIDER 18 W0MD FED COM 1H	Sampling Condition:	** (See Notes)
Project Number:	14914	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

**Sample ID: NW 5 A (H213526-01)**

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	12/08/2021	ND	222	111	200	1.10	
DRO >C10-C28*	36.6	10.0	12/08/2021	ND	209	105	200	2.35	
EXT DRO >C28-C36	13.5	10.0	12/08/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.2 % 38.9-142

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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





No  
Rush

## ARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1. f

Page 4 of 4

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																	
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: P.O. Box 301				Company: Mewbourne																																					
City: Lovington State: NM Zip: 88260				Attn: Robbie Runnels																																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																					
Project #: 14914 Project Owner: Robbie Runnels				City:																																					
Project Name: Slider 18 WMD Fed Com 001H				State: Zip:																																					
Project Location: Mewbourne Oil Company				Phone #:																																					
Sampler Name: Eric Mojica				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													
H213526		NW 5A		C		1						✓										✓				12-7-21				✓											

**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 69841

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 69841
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. In the future, soil samples need to be collected more depth discrete, i.e. 0-7.5 ft insufficient. Please allow for data definition of transported materials.	2/8/2022