

# Remediation Summary and Soil Closure Request

## **Solaris Water Midstream, LLC Lightning SWD**

Lea County, New Mexico

Unit Letter A, Section 1, Township 21 South, Range 33 East

Latitude 32.51011 North, Longitude 103.52738 West

**NMOCD Reference No. nAPP2234029508**

Prepared By:

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

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Matthew Grieco



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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Solaris Water Midstream, LLC, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the Lightning SWD (henceforth, "Site"). Details of the release are summarized below:

### Location of Release Source

Latitude: 32.51011 Longitude: -103.52738

Provided GPS are in WGS84 format.

Site Name:	Lightning SWD	Site Type:	SWD
Date Release Discovered:	12/5/2022	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
A	1	21S	33E	Lea

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

### Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 80	Volume Recovered (bbls) 10
	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)	Volume/Weight Released	Volume/Weight Recovered

#### Cause of Release:

A buried underground pipe began leaking causing water to come to the surface. Reportedly the pipe was an older metal pipe that failed. The line was turned off and the leak has stopped. The failed section is being replaced. The impacted area remained on the operating pad and pooled in an area approximately 40 feet by 20 feet.

### 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 Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information.

Additionally, on December 13, 2023, a soil bore/temporary monitoring well (CP 01981 POD1) was drilled on the southern side of the Site production pad. The well was drilled to a depth of 58 feet below ground surface (bgs) and was left open for 72 hours to allow for the inflow and accumulation of groundwater, if any. After this accumulation period the well was gauged and found to have no water. After gauging was completed, the well was plugged and abandoned.

Depth to groundwater information, including a well record of the soil bore, is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?		
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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on 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 Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Method	Closure Criteria	Reclamation Standard*
> 58 Feet	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

\* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

### 4.0 REMEDIATION ACTIVITIES SUMMARY

On January 6, and January 30, 2023, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing visual/olfactory senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, 23 delineation soil samples (EH - 1 @ Surf, EH - 1 @ 6", NH - 1 @ Surf, NH - 1 @ 6", SH - 1 @ Surf, SH - 1 @ 6", WH - 1 @ Surf, WH - 1 @ 6", V - 1 @ Surf, V - 1 @ 10", V - 2 @ Surf, V - 2 @ 9", V - 3 @ Surf, V - 3 @ 8", V - 4 @ Surf, V - 4 @ 6", V - 5 @ Surf, V - 5 @ 8", V - 6 @ Surf, V - 6 @ 6", V - 6 @ 1', V - 7 @ Surf, and V - 7 @ 6") were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond one (1) foot bgs, and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

On June 10, 2023, remediation activities commenced at the Site. In accordance with NMOCD regulations, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria.

On July 11, 2023, Etech collected 72 confirmation soil samples (FL 1 @ 6" through FL 72 @ 6"). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

On July 13, 2023, Etech collected 60 confirmation soil samples (FL 73 @ 6" through FL 111 @ 6", EW 1 through EW 6, NW 1 through NW 6, SW 1 through SW 3, and WW 1 through WW 6). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data is provided as Appendix B. Laboratory analytical reports are provided as Appendix C. A photographic log of remediation activities is provided as Appendix D.

The final dimensions of the excavated area were approximately 230 feet in length, five (5) to 250 feet in width, and six (6) inches in depth. During the course of remediation activities, approximately 110 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

## **5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN**

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with approximately 110 cubic yards of locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. As affected areas were limited to the production pad, reseeding will be completed upon reclamation and abandonment of the Site.

## **6.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Solaris Water Midstream, LLC, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Lightning SWD site.

## **7.0 LIMITATIONS**

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and 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 referenced 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 Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

## **8.0 DISTRIBUTION**

***Solaris Water Midstream, LLC***

*907 Tradewinds Blvd*

*Ste B*

*Midland, TX 79706*

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

*Oil Conservation Division, District 1*

*1220 South St. Francis Drive*

*Santa Fe, NM 87505*

***Hobbs Field Office***

*New Mexico State Land Office*

*2827 North Dal Paso Street*

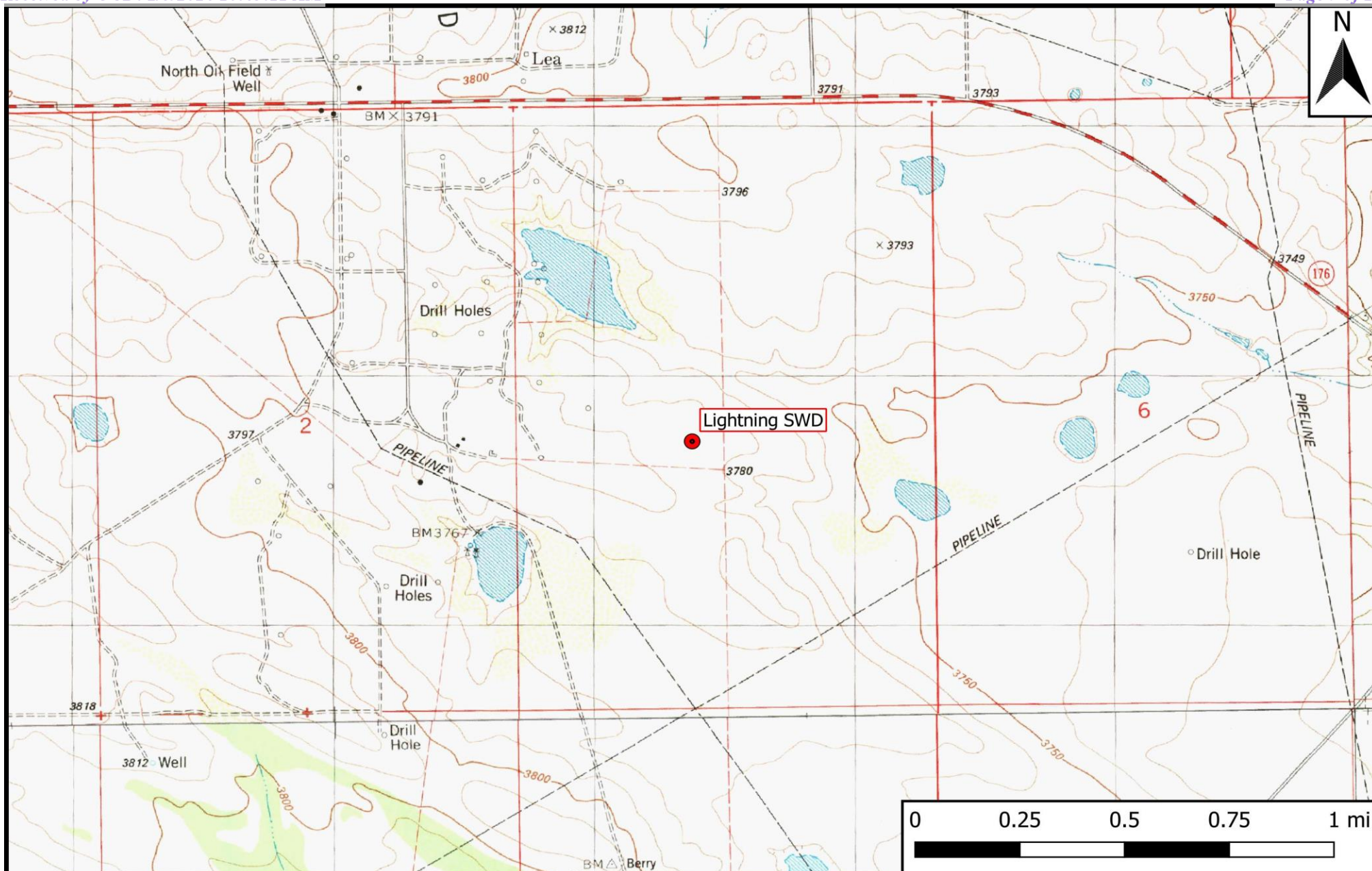
*Suite 117*

*Hobbs, NM 88240*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



## Legend

- Site Location

**Figure 1**  
 Topographic Map  
 Solaris Water Midstream, LLC  
 Lightning SWD  
 GPS: 32.51011, -103.52738  
 Lea County

**ETECH**  
 Environmental & Safety Solutions, Inc.

Drafted: mag

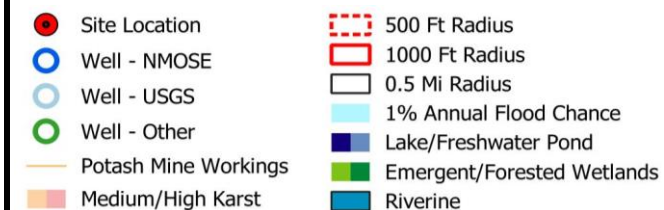
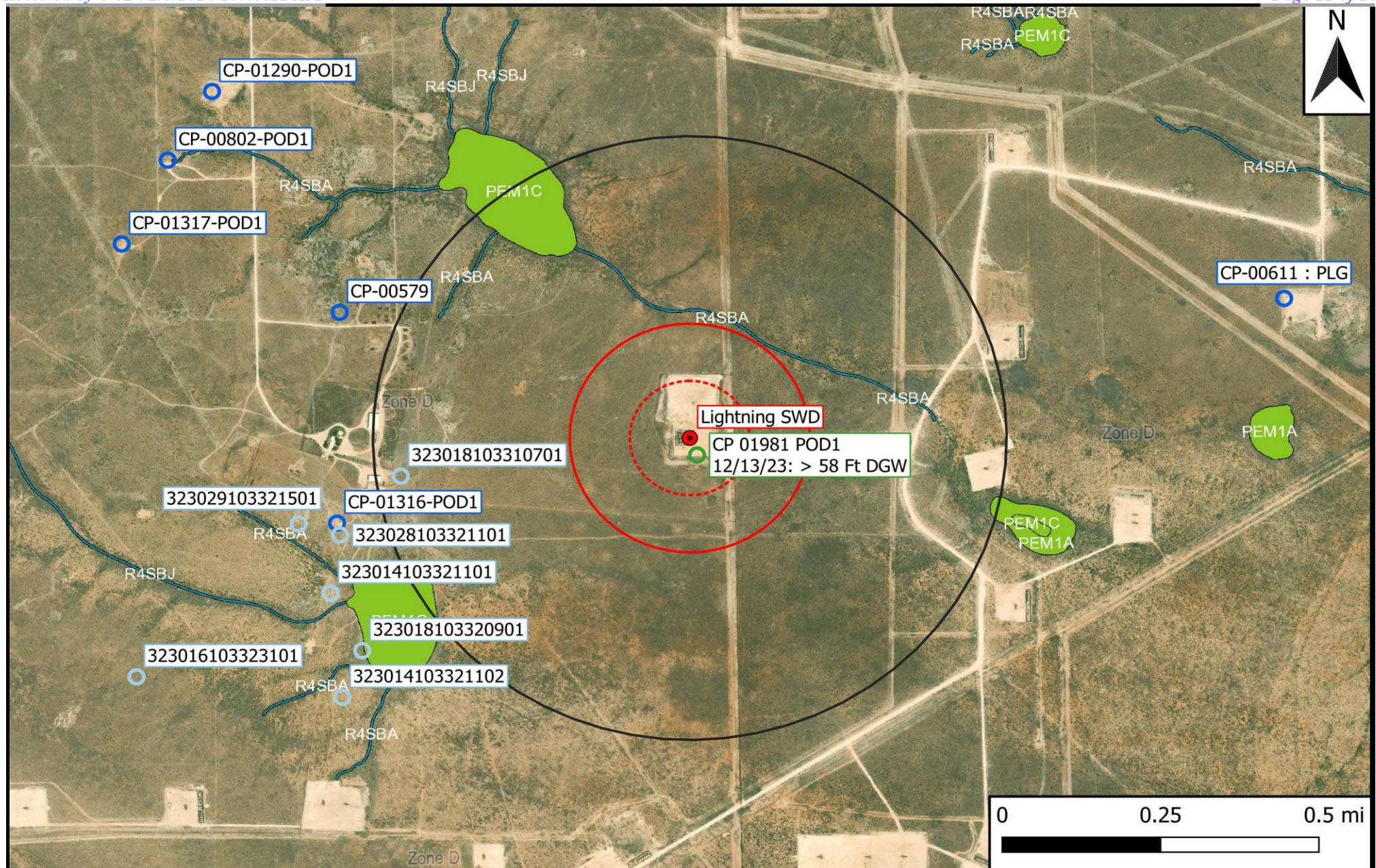
Checked: jwl

Date: 12/15/22

## **Figure 2**

### **Aerial Proximity Map**





**Figure 2**  
Aerial Proximity Map  
Solaris Water Midstream, LLC  
Lightning SWD  
GPS: 32.51011, -103.52738  
Lea County



Drafted: mag

Checked: jwl

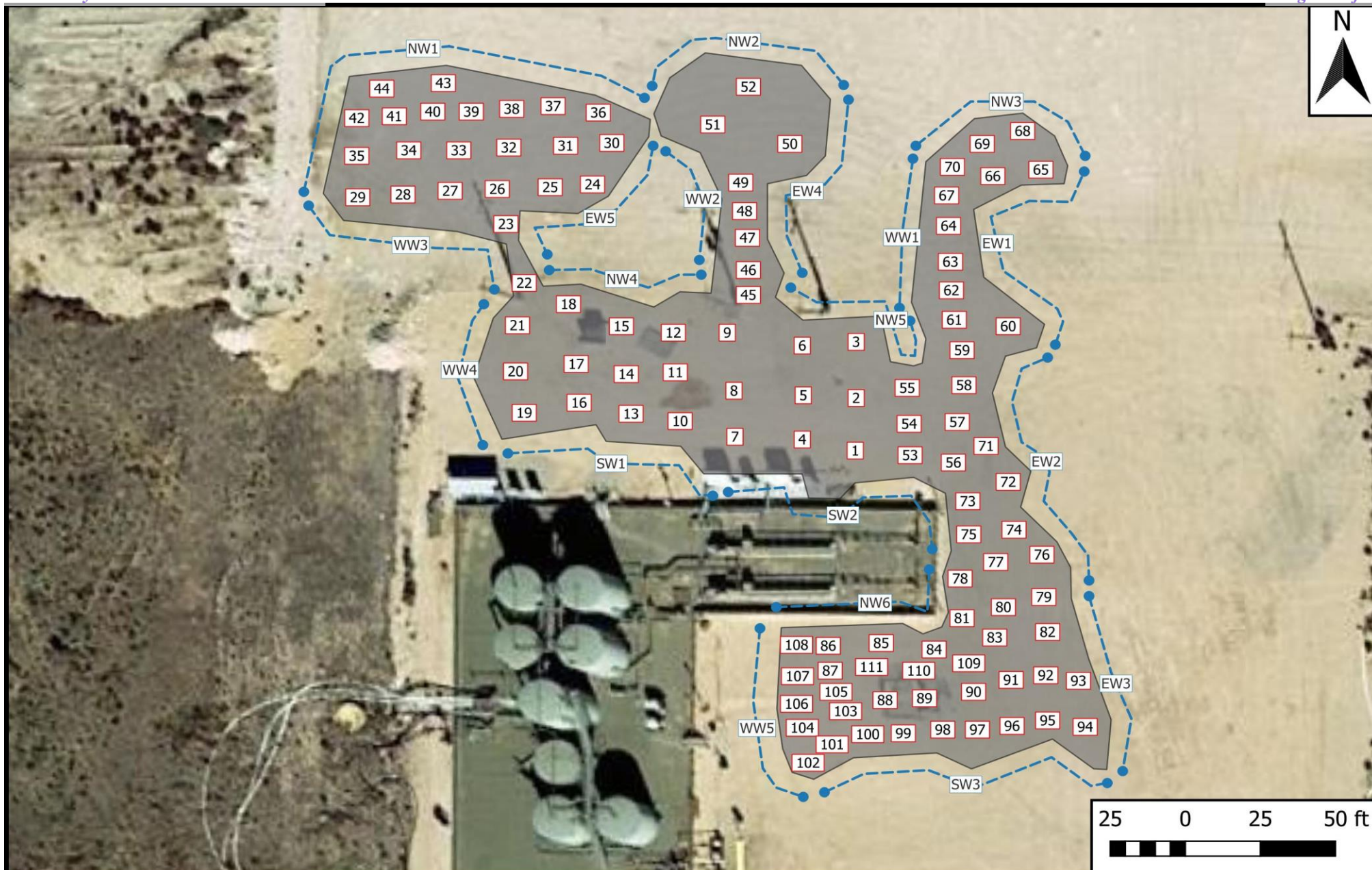
Date: 1/19/24



## **Figure 3**

### **Site and Sample Location Map**





## Legend

- Floor Sample □  
 Wall Sample ●—●  
 Excavation

**Figure 3**

Site and Sample Location Map  
 Solaris Water Midstream, LLC  
 Lightning SWD  
 GPS: 32.51011, -103.52738  
 Lea County

**eTECH**

Environmental & Safety Solutions, Inc.



Drafted: mag

Checked: jwl

Date: 7/28/23

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

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Solaris Water Midstream, LLC**  
**Lightning SWD**  
**NMOCD Ref. #: nAPP2234029508**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
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											
EH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V - 1 @ Surf	1/6/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,800
V - 1 @ 10"	1/6/2023	0.83	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
V - 2 @ Surf	1/6/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
V - 2 @ 9"	1/6/2023	0.75	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,560
V - 3 @ Surf	1/6/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
V - 3 @ 8"	1/6/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
V - 4 @ Surf	1/6/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
V - 4 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
V - 5 @ Surf	1/6/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,800
V - 5 @ 8"	1/6/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,000
V - 6 @ Surf	1/6/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	26,000
V - 6 @ 6"	1/6/2023	0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,600
V - 6 @ 1'	1/30/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
V - 7 @ Surf	1/6/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,600
V - 7 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
Confirmation Samples											
FL 1 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 2 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 3 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 4 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 5 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 6 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
FL 7 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,680
FL 8 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,730
FL 9 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,730
FL 10 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,200
FL 11 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
FL 12 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,200
FL 13 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,200
FL 14 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,720
FL 15 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,560
FL 16 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,560

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Solaris Water Midstream, LLC**  
**Lightning SWD**  
**NMOCD Ref. #: nAPP2234029508**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
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)
FL 17 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,880
FL 18 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,920
FL 19 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,360
FL 20 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,880
FL 21 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,160
FL 22 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,320
FL 23 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,520
FL 24 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,360
FL 25 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
FL 26 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,960
FL 27 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
FL 28 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920
FL 29 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 30 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 31 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,320
FL 32 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,630
FL 33 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,660
FL 34 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 35 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
FL 36 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
FL 37 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,320
FL 38 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,800
FL 39 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
FL 40 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
FL 41 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
FL 42 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 43 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
FL 44 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
FL 45 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
FL 46 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL 47 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	23.1	23.1	960
FL 48 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	16.3	16.3	1,760
FL 49 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,800
FL 50 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,800
FL 51 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
FL 52 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
FL 53 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920
FL 54 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
FL 55 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,880
FL 56 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
FL 57 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,400

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.



**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Solaris Water Midstream, LLC**  
**Lightning SWD**  
**NMOCD Ref. #: nAPP2234029508**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
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)
FL 58 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920
FL 59 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
FL 60 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,040
FL 61 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,400
FL 62 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
FL 63 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,640
FL 64 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,040
FL 65 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
FL 66 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
FL 67 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
FL 68 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,040
FL 69 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,640
FL 70 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
FL 71 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
FL 72 @ 6"	7/11/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
FL 73 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,240
FL 74 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320
FL 75 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,040
FL 76 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,160
FL 77 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,240
FL 78 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,880
FL 79 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 80 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,160
FL 81 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,280
FL 82 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,040
FL 83 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,680
FL 84 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
FL 85 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,000
FL 86 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,760
FL 87 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,280
FL 88 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,000
FL 89 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 90 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,760
FL 91 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,000
FL 92 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,200
FL 93 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,080
FL 94 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,120
FL 95 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,200
FL 96 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
FL 97 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,160
FL 98 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,400

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Solaris Water Midstream, LLC**  
**Lightning SWD**  
**NMOCD Ref. #: nAPP2234029508**

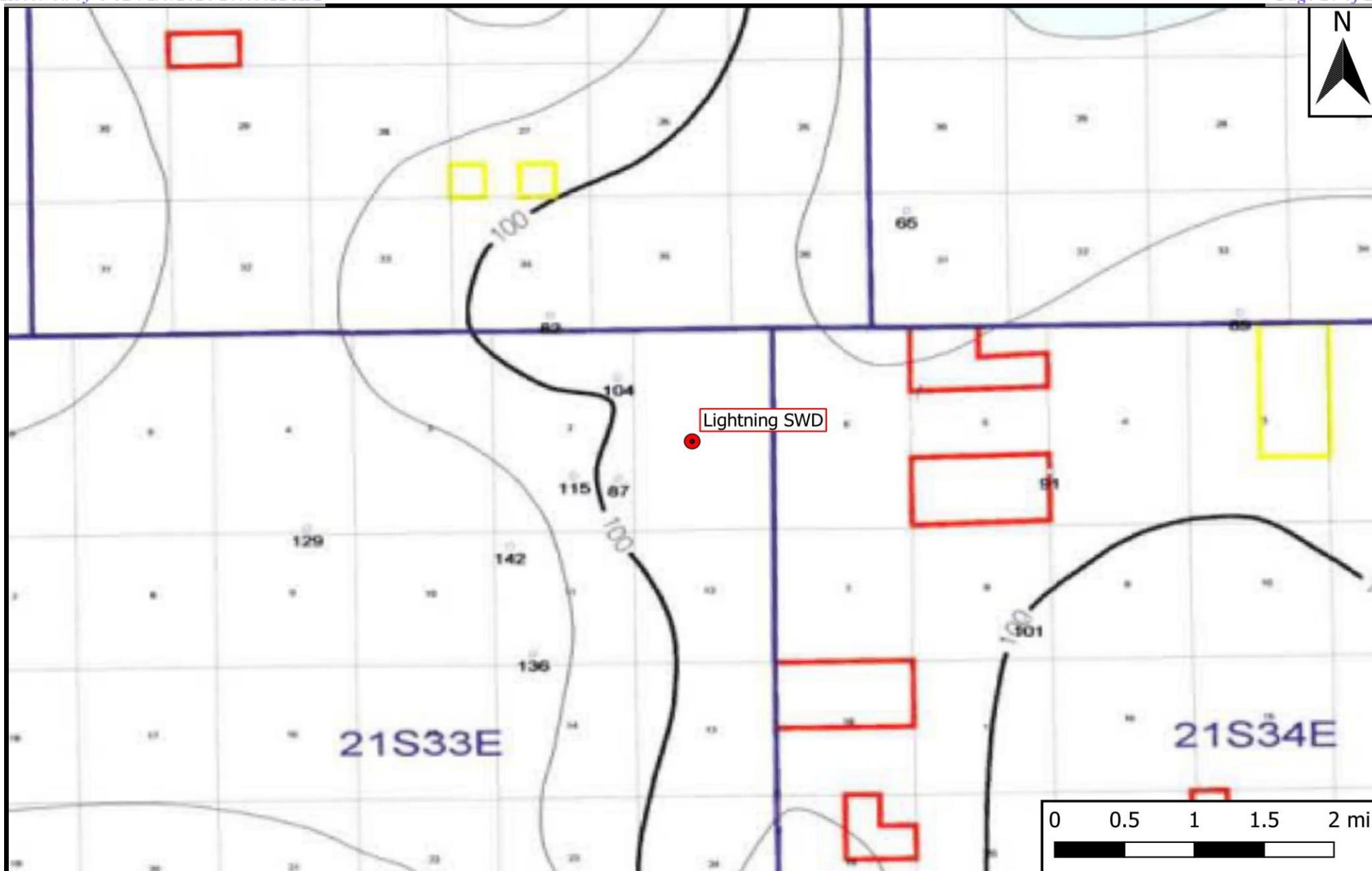
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>10,000</b>
<b>NMOCD Reclamation Standard</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>600</b>
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M 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)
FL 99 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320
FL 100 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,400
FL 101 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320
FL 102 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 103 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
FL 104 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 105 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,200
FL 106 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
FL 107 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
FL 108 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	12.6	12.6	<10.0	12.6	4,640
FL 109 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,600
FL 110 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,000
FL 111 @ 6"	7/13/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,440
EW 1	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,480
EW 2	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,720
EW 3	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
EW 4	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,480
EW 5	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,000
EW 6	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
NW 1	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,080
NW 2	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,520
NW 3	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,480
NW 4	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
NW 5	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
NW 6	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
SW 1	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320
SW 2	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,080
SW 3	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,120
WW 1	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,200
WW 2	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,680
WW 3	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,400
WW 4	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,560
WW 5	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,480
WW 6	7/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,320

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  
 Solaris Water Midstream, LLC  
 Lightning SWD  
 GPS: 32.51011, -103.52738  
 Lea County

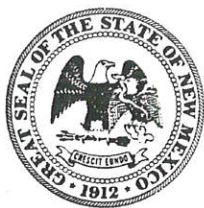


Drafted: mag

Checked: jwl

Date: 12/15/22





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) CP 01981 POD1		WELL TAG ID NO.		OSE FILE NO(S).			
	WELL OWNER NAME(S) Solaris Water Midstream				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3305 Boyd Drive				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 30	SECONDS 34.92	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	31	37.884"	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD 1680		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources, Inc		
	DRILLING STARTED 12/13/2023	DRILLING ENDED 12/13/2023	DEPTH OF COMPLETED WELL (FT) 58 ft	BORE HOLE DEPTH (FT) 58	DEPTH WATER FIRST ENCOUNTERED (FT) dry			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 0	DATE STATIC MEASURED 12/13/23		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	+2	48	6	PVC schl 40	thread	2	schl 40	
	48	58	6	PVC schl 40	thread	2	schl 40	.015
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

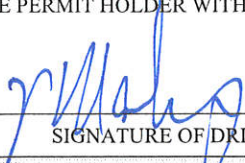
FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	18	18	off white Caliche hard	Y <input checked="" type="checkbox"/> N	
	18	58	40	red sand with caliche stringers mostly fine sand	Y <input checked="" type="checkbox"/> N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

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

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 09/22/2022)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 2 OF 2



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00796 POD1</a>		CP	LE	2	2	4	02	21S	33E	637548	3597564*	863	102		
<a href="#">CP 01316 POD1</a>		CP	LE	3	2	4	02	21S	33E	637432	3597709	924	1370		
<a href="#">CP 00579</a>		CP	LE	2	2	02	02	21S	33E	637438	3598269*	950	125	100	25

Average Depth to Water: **100 feet**

Minimum Depth: **100 feet**

Maximum Depth: **100 feet**

**Record Count:** 3

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 638327.7

**Northing (Y):** 3597935.35

**Radius:** 1000

\*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.


12/15/22 12:37 PM

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	Tws	Rng	X	Y
	CP 00579		2	2	02	21S	33E	637438	3598269* 
Driller License:	208	Driller Company:				VAN NOY, W.L.			
Driller Name:	VAN NOY, W.L.								
Drill Start Date:	11/21/1979	Drill Finish Date:				11/22/1979		Plug Date:	
Log File Date:	04/02/1980	PCW Rcv Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size:	6.00	Depth Well:				125 feet		Depth Water:	100 feet
Water Bearing Stratifications:				Top	Bottom	Description			
				100	102	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				105	120				

\*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

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00796 POD1	2	2	4	02	21S	33E	637548	3597564*

<b>Driller License:</b> 122	<b>Driller Company:</b> UNKNOWN	
<b>Driller Name:</b>		
<b>Drill Start Date:</b>	<b>Drill Finish Date:</b> 12/31/1940	<b>Plug Date:</b>
<b>Log File Date:</b>	<b>PCW Rcv Date:</b>	<b>Source:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 6.00	<b>Depth Well:</b> 102 feet	<b>Depth Water:</b>

\*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.

12/15/22 12:37 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Transaction Summary

### DCL Declaration of a Water Right

Transaction Number: 535944

Transaction Desc: CP 00796

File Date: 07/21/1993


Primary Status: DCL Declared

Secondary Status: PRC Processed

Person Assigned: \*\*\*\*\*

Applicant: DANIEL C. BERRY

#### Events

	Date	Type	Description	Comment	Processed By
	07/21/1993	APP	Application Received	*	*****
	07/21/1993	FTN	Finalize non-published Trans.		*****
	12/23/2016	QAT	Quality Assurance Completed	DATA/SQ2	*****
	01/03/2017	QAT	Quality Assurance Completed	IMAGE	*****

#### Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 00796	0	3		PLS NON 72-12-1 LIVESTOCK WATERING

#### \*\*Point of Diversion

CP 00796 POD1 637548 3597564\* 

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

#### \*\*Place of Use

Q	Q	Q	Q															
256	64	16	4	Sec	Tw	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other	Loc	Desc			
							0	3		PLS	12/31/1940	DCL	NO PLACE OF	USE GIVEN				

#### Remarks

"EAST ROCK."

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.

12/15/22 12:44 PM

TRANSACTION 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</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 01316 POD1	3	2	4	02	21S	33E	637432	3597709



<b>Driller License:</b>	421	<b>Driller Company:</b>	GLENN'S WATER WELL SERVICE
-------------------------	-----	-------------------------	----------------------------

<b>Driller Name:</b>	GLENN, CLARK A."CORKY"
----------------------	------------------------

<b>Drill Start Date:</b>	05/19/2014	<b>Drill Finish Date:</b>	05/28/2014	<b>Plug Date:</b>	
--------------------------	------------	---------------------------	------------	-------------------	--

<b>Log File Date:</b>	06/03/2014	<b>PCW Rev Date:</b>		<b>Source:</b>	Artesian
-----------------------	------------	----------------------	--	----------------	----------

<b>Pump Type:</b>	SUBMER	<b>Pipe Discharge Size:</b>	3	<b>Estimated Yield:</b>	
-------------------	--------	-----------------------------	---	-------------------------	--

<b>Casing Size:</b>	16.00	<b>Depth Well:</b>	1370 feet	<b>Depth Water:</b>	
---------------------	-------	--------------------	-----------	---------------------	--

### Water Bearing Stratifications:

Top	Bottom	Description
1016	1046	Sandstone/Gravel/Conglomerate
1042	1075	Sandstone/Gravel/Conglomerate
1075	1359	Sandstone/Gravel/Conglomerate

### Casing Perforations:

Top	Bottom
0	1016

<b>Meter Number:</b>	17851	<b>Meter Make:</b>	SEAMETRICS
----------------------	-------	--------------------	------------

<b>Meter Serial Number:</b>	05 212 619	<b>Meter Multiplier:</b>	1.0000
-----------------------------	------------	--------------------------	--------

<b>Number of Dials:</b>	8	<b>Meter Type:</b>	Diversion
-------------------------	---	--------------------	-----------

<b>Unit of Measure:</b>	Barrels 42 gal.	<b>Return Flow Percent:</b>	
-------------------------	-----------------	-----------------------------	--

<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	Monthly
--------------------------	--	---------------------------	---------

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
12/31/2016	2016	1156935	A	ap		0
01/31/2017	2017	1207665	A	ap		653.876
03/01/2017	2017	1216803	A	ap		117.783
04/01/2017	2017	1216803	A	ap		0
05/01/2017	2017	1216803	A	ap		0
06/01/2017	2017	1216803	A	ap		0
06/30/2017	2017	1300647	A	ap		1080.693
07/31/2017	2017	1344106	A	ap		560.157
10/31/2017	2017	1459383	A	ap		1485.843
11/30/2017	2017	1501524	A	ap		543.169
12/29/2017	2017	1501637	A	ap		1.456
01/31/2018	2018	1578631	A	ap		992.401
02/28/2018	2018	1620378	A	ap		538.091
03/30/2018	2018	1665158	A	ap		577.184
04/30/2018	2018	1682369	A	ap		221.838
06/01/2018	2018	1744321	A	ap		798.520
06/29/2018	2018	1770000	A	ap		330.985
07/31/2018	2018	1831128	A	ap		787.899

09/01/2018	2018	1880720	A	ap	639.208
10/01/2018	2018	1926578	A	ap	591.079
11/01/2018	2018	1947367	A	ap	267.956
11/30/2018	2018	2014444	A	ap	864.577
03/01/2019	2019	2090150	A	ap	975.799
04/01/2019	2019	2090150	A	ap	0
05/01/2019	2019	2090150	A	ap	0
05/31/2019	2019	2090150	A	ap	0
06/30/2019	2019	2090150	A	ap	0
08/01/2019	2019	2358594	A	RPT	34.601
09/01/2019	2019	2379915	A	RPT	2.748
09/30/2019	2019	2401510	A	RPT	2.783
10/31/2019	2019	2401510	A	RPT	0
11/30/2019	2019	2401510	A	RPT	0
12/31/2019	2019	2532399	A	RPT	16.871
02/01/2020	2020	2551261	A	RPT	2.431
03/01/2020	2020	2551261	A	RPT	0
04/01/2020	2020	2551261	A	RPT	0
05/01/2020	2020	2551261	A	RPT	0
06/01/2020	2020	2551261	A	RPT	0
08/01/2020	2020	2735771	A	RPT	23.782
09/01/2020	2020	2804915	A	RPT	8.912
10/01/2020	2020	2804915	A	RPT	0
10/31/2020	2020	2804915	A	WEB	0 X
11/30/2020	2020	2804915	A	WEB	0 X
12/14/2020	2020	2804915	A	RPT	0
12/14/2020	2020	0	A	RPT	0
12/31/2020	2020	0	A	RPT	0
01/31/2021	2021	49102	A	ad	6.329
02/28/2021	2021	49102	A	ad	0
03/31/2021	2021	49102	A	ad	0
04/30/2021	2021	49102	A	ad	0
05/31/2021	2021	129408	A	ad	10.351
06/30/2021	2021	163410	A	ad	4.383
07/31/2021	2021	189534	A	ad	3.367
08/31/2021	2021	189534	A	ad	0
09/30/2021	2021	189534	A	ad	0
10/31/2021	2021	319188	A	ad	16.712
11/30/2021	2021	330921	A	ad	1.512
01/03/2022	2022	377824	A	ad	6.045
01/31/2022	2022	377824	A	ad	0
02/28/2022	2022	0	A	ad	0
03/31/2022	2022	66675	A	ad	8.594
04/30/2022	2022	66675	A	ad	0
06/01/2022	2022	66675	A	ad	0
07/01/2022	2022	166620	A	ad	12.882
08/01/2022	2022	166620	A	ad	0
09/01/2022	2022	280662	A	ad	14.699
10/01/2022	2022	292856	A	ad	1.572



11/01/2022	2022	364908	A	WEB	9.287	X
12/01/2022	2022	364908	A	WEB	0	X

**YTD Meter Amounts:			Year	Amount
			2016	0
			2017	4442.977
			2018	6609.738
			2019	1032.802
			2020	35.125
			2021	42.654
			2022	53.079

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12/15/22 12:37 PM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

2016 APR - 9 PM 1:03  
2016 APR - 9 PM 1:03

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP-1316 (Libby) *** Revised 08/04/16 ***				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) Berry Ranch/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424			
	WELL OWNER MAILING ADDRESS P. O. Box 692				CITY Tatum		STATE NM	ZIP 88267
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 30	SECONDS 29.46 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	32	13.02 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW1/4 NE1/4 SE1/4 Sec. 2 T21S R33E on Berry Ranch Land								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.		
	DRILLING STARTED 05/19/14		DRILLING ENDED 05/28/14		DEPTH OF COMPLETED WELL (FT) 1370		BORE HOLE DEPTH (FT) 1370	DEPTH WATER FIRST ENCOUNTERED (FT) 1046
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT)	
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0'	40'	20"	16"	None	15 1/2"	.250	
	0'	1016	14 3/4"	9 5/8"	Thread & Collar	8.921"	36 lbs.	None
	952'	1370'	8 3/4"	7" - 418'	Thread & Collar	6.5"	.188	1/8"
			351' perforated on bottom					
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0'	40'	20"	Cemented	2yds.	Top Pour		
	0'	1016	14 3/4"	Float and Shoe Cemented to Surface	740	Circulated		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1316	POD NUMBER	1	TRN NUMBER	553165
LOCATION	21S-33E-2-2-4-3			EXPL	PAGE 1 OF 2

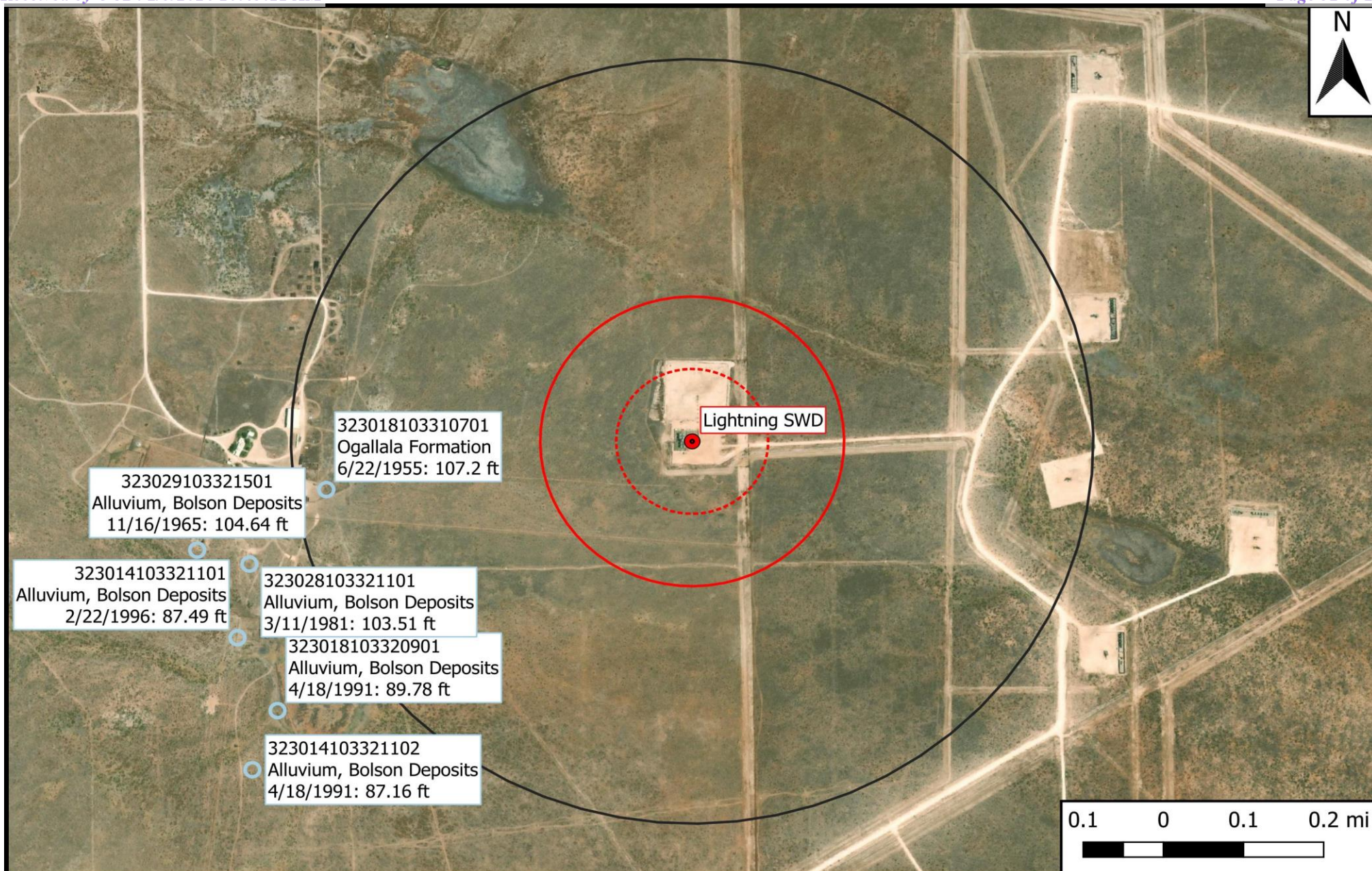
4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	6	163	157	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	163	195	32	Red clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	195	215	20	Blue shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	215	835	620	Red, brown & blue shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	835	1010	175	Red, brown, & blue shale; red rock	<input type="radio"/> Y <input checked="" type="radio"/> N	
	1010	1016	6	Red & brown shale - Some sandrock	<input checked="" type="radio"/> Y <input type="radio"/> N	
	1016	1046	30	Sandrock & sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
	1046	1075	29	Sandrock & shale	<input checked="" type="radio"/> Y <input type="radio"/> N	
	1075	1359	284	Santa Rosa Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
	1359	1370	11	Brown shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
0' to 1,106' drilled with mud. 1,016' to 1,370' drilled with air and foam.		
Went back in well 08/02/16 - 08/03/2016: Cleaned out and deepened. Installed 418' of 6 5/8" liner.		
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER	DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1316	POD NUMBER	1
LOCATION	215.33E-2.2.4.3	TRN NUMBER	553165
			EXP1
			PAGE 2 OF 2





## Legend

- Site Location
- Well - USGS
- ⋯ 500 Ft Radius
- ▭ 1000 Ft Radius
- ▭ 0.5 Mi Radius

## Figure 5

USGS Well Proximity Map  
Solaris Water Midstream, LLC  
Lightning SWD  
GPS: 32.51011, -103.52738  
Lea County

**eTECH**  
Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 12/15/22



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

[Click for News Bulletins](#)

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 323014103321101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 323014103321101 21S.33E.02.42233

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°30'23", Longitude 103°32'12" NAD27

Land-surface elevation 3,768.00 feet above NGVD29

The depth of the well is 102 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

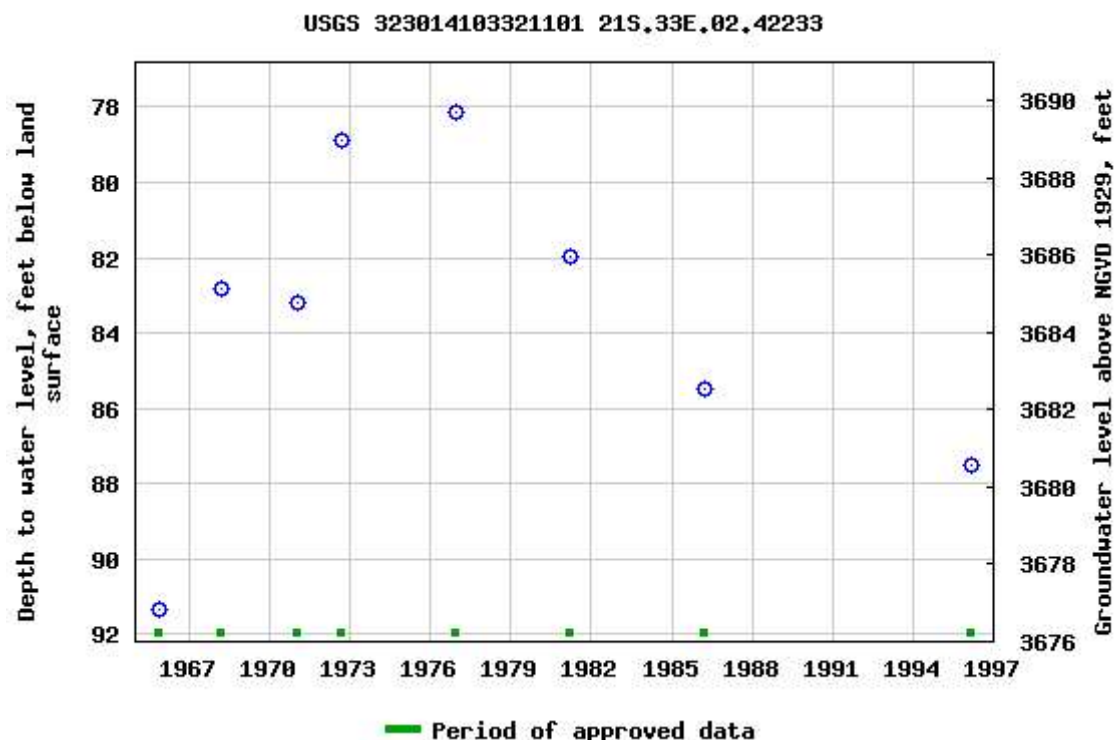
[Table of data](#)

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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](#)

Page Last Modified: 2022-12-15 14:31:26 EST

0.62 0.53 nadww01





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Groundwater

Geographic Area:

United States

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 323014103321102

Minimum number of levels = 1

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### USGS 323014103321102 21S.33E.02.422334

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°30'14", Longitude 103°32'11" NAD27

Land-surface elevation 3,782 feet above NAVD88

The depth of the well is 100 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.

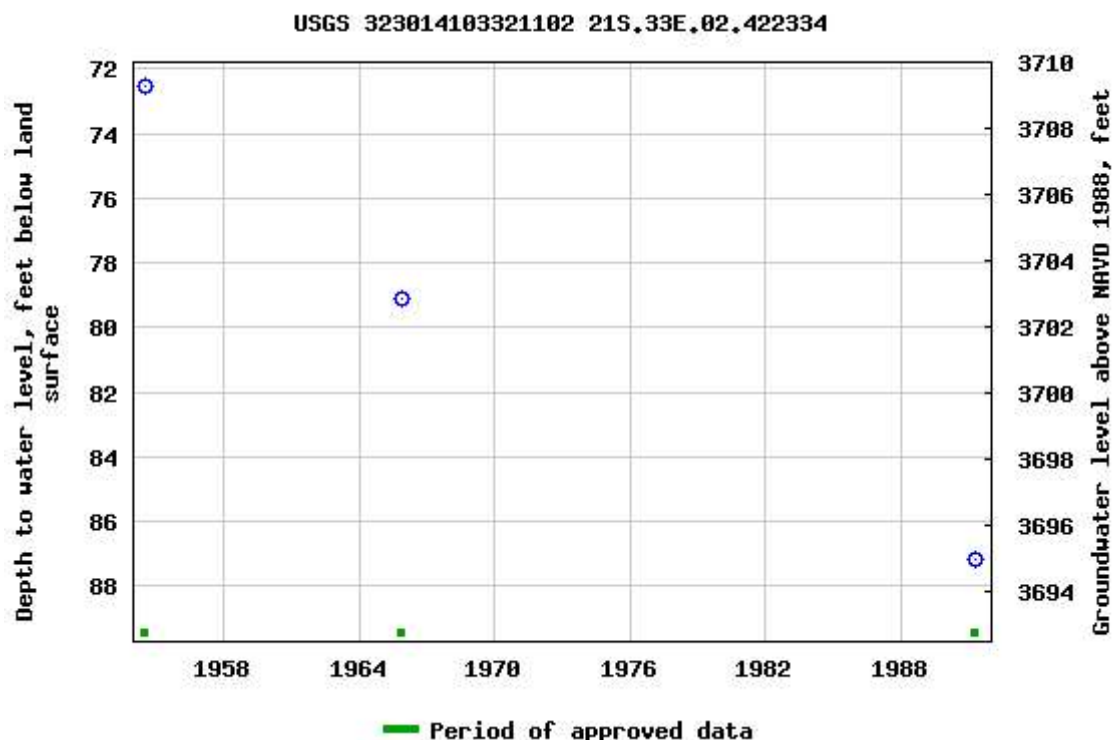
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0.67 0.56 nadww01







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Agency code = usgs

site\_no list =

- 323018103310701

Minimum number of levels = 1

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### USGS 323018103310701 21S.33E.02.422.01

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°30'33", Longitude 103°32'05" NAD27

Land-surface elevation 3,790 feet above NGVD29

The depth of the well is 120 feet below land surface.

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

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

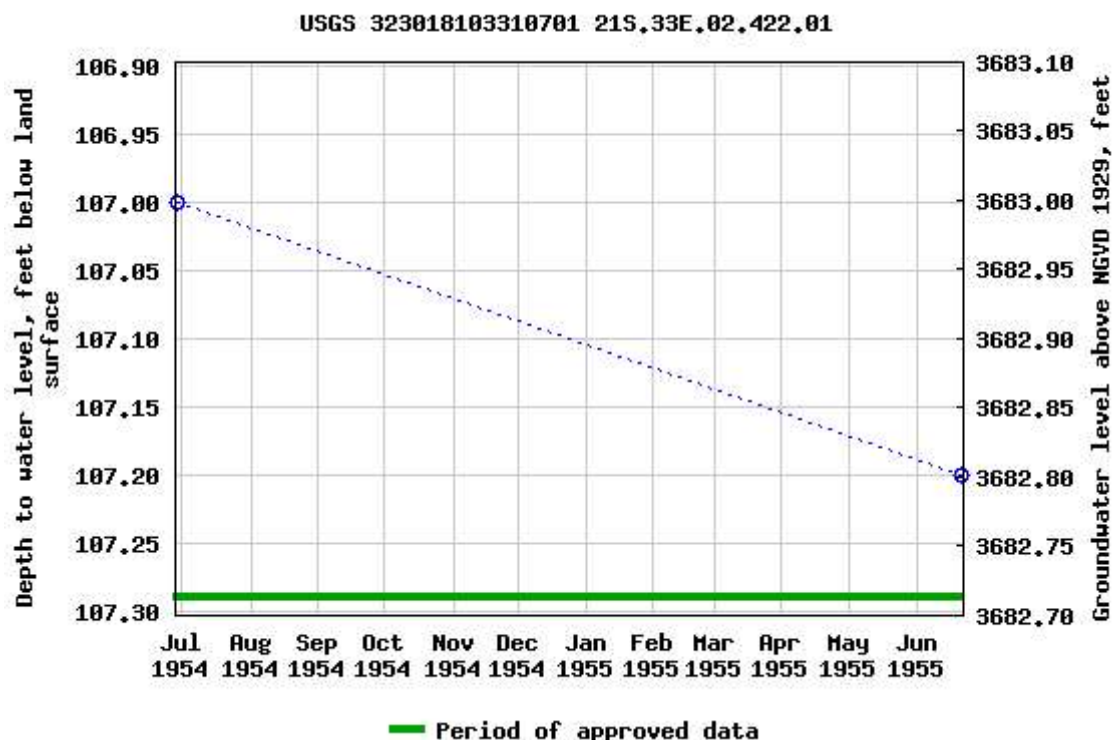
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0.6 0.52 nadww01





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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 323018103320901

Minimum number of levels = 1

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### USGS 323018103320901 21S.33E.02.42214

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°30'18", Longitude 103°32'09" NAD27

Land-surface elevation 3,775 feet above NAVD88

The depth of the well is 150 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.

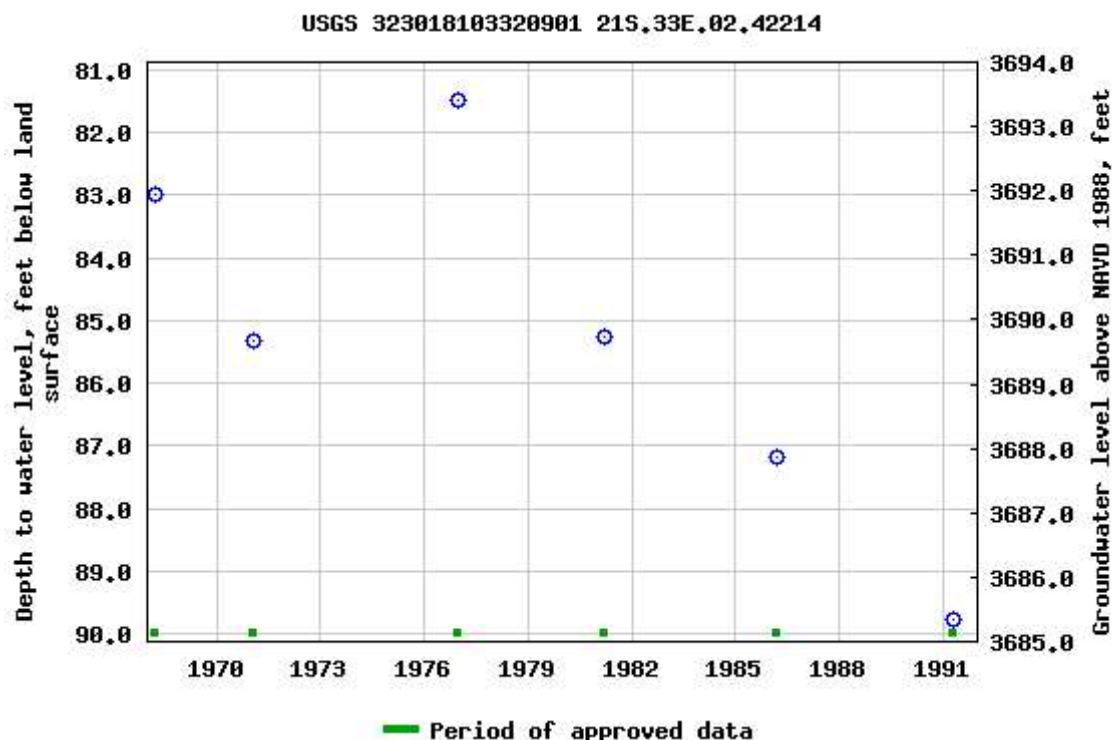
#### Output formats

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0.66 0.54 nadww01





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Agency code = usgs

site\_no list =

- 323028103321101

Minimum number of levels = 1

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### USGS 323028103321101 21S.33E.02.24233

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°30'28", Longitude 103°32'11" NAD27

Land-surface elevation 3,781 feet above NAVD88

The depth of the well is 120 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

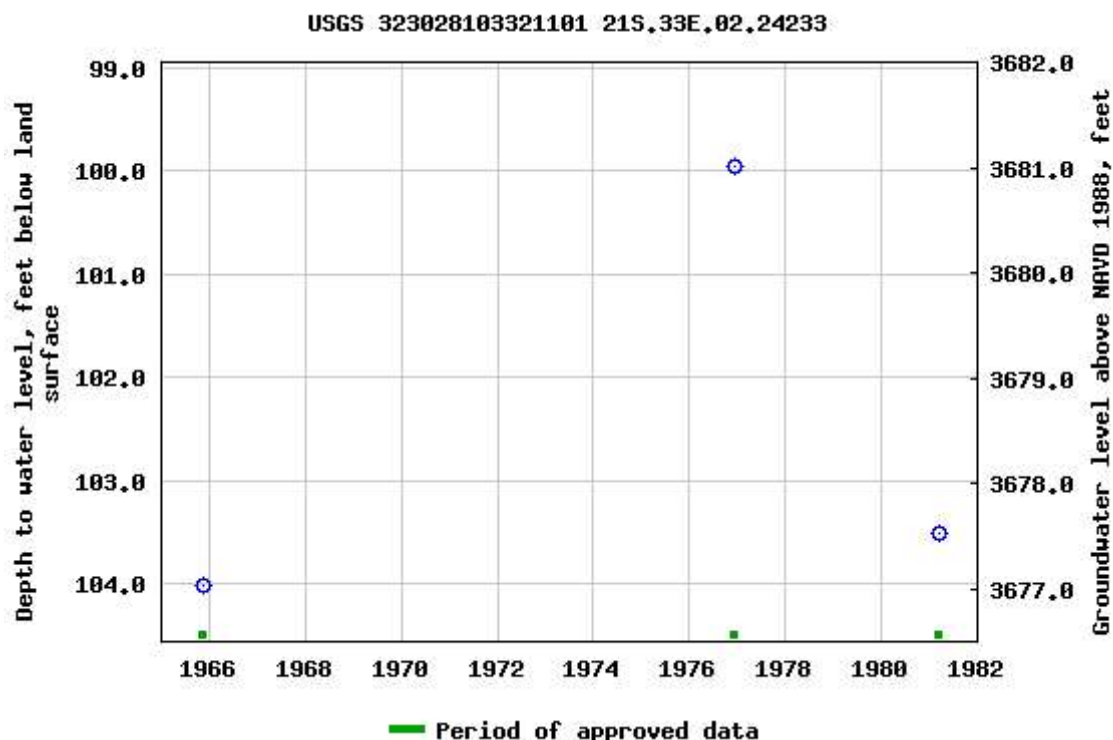
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0.68 0.55 nadww01





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Agency code = usgs

site\_no list =

- 323029103321501

Minimum number of levels = 1

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### USGS 323029103321501 21S.33E.02.24141

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°30'29", Longitude 103°32'15" NAD27

Land-surface elevation 3,782 feet above NAVD88

The depth of the well is 120 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.

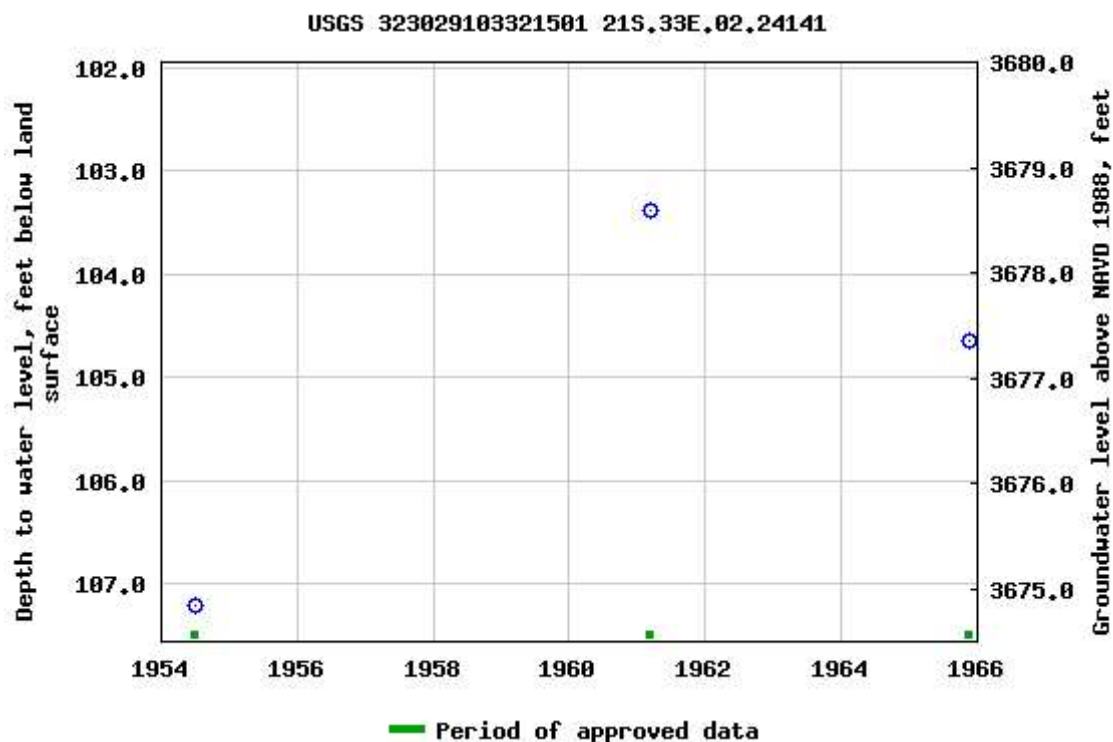
#### Output formats

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

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**

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0.67 0.61 nadww01



## **Appendix B**

### **Field Data**



## Sample Log

Date: 1/5/2022

Project: Lightning SWD

Project Number: 17267 Latitude: 32.51011 Longitude: -103.52738

Sample ID	PID/Odor	Chloride Conc.	GPS
V-103 ✓	None		
V-1-8"		<del>608 - 6,468</del>	
V-203			
V-209"		<del>7,020</del>	
V-303			
V-308"		500	
V-403			
V-406"		608	
V-503			
V-508"		6,468	
V-603			
V-606"		<del>7,624</del>	
V-703			
V-706" ✓		5,085	
NH-103 surf			
NH-106" ✓			
EH-103 surf			
EH-106" ✓		368	
SH-103 surf			
SH-106" ✓		228	
WH-103			
WH-106" ✓			
V-1010" ✓		3988	
V-7012" ✓		6468	
V-6012" ✓		7178	
V-6010" ✓		6168	
FL106"		5.8 4.5	
FL126"		6.0	
FL306"		4.6	
FL406"		5.6	
FL506"		6.6	
FL606"		4.0	
FL706"		6.0	
FL806"		4.6	
FL906"		4.8	
FL1006"		4.8	

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: Jalapa, Filter P. 201Project Number: 10071Latitude: 22.371255Longitude: 102.410007

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 1		6064	
FL 2		5164	
FL 3		5592	
FL 4		4764	
FL 5		5592	
FL 6		5164	
FL 7		2252	
FL 8		6064	
FL 9		6064	
FL 10		5592	
FL 11		5164	
FL 12		2684	
FL 13		6064	
FL 14		4764	
FL 15		5592	
FL 16		5164	
FL 17		6064	
FL 18		3180	
FL 19		5592	
FL 20		6064	
FL 21		5164	
FL 22		2684	
FL 23		4764	
FL 24		6064	
FL 25		3180	
FL 26		5592	
FL 27		2252	
FL 28		4764	
FL 29		6064	
FL 30		6064	
FL 31		5164	
FL 32		3180	
FL 33		2684	
FL 34		6064	
FL 35		5592	
FL 36		3180	

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: ~~Jalapeno Filter Pot 301~~Project Number: ~~10374~~Latitude: ~~32.371355~~Longitude: ~~102.410007~~

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 37		6064	
FL 38		6064	
FL 39		1532	
FL 40		2252	
FL 41		5164	
FL 42		5592	
FL 43		1532	
FL 44		5164	
FL 45		6064	
FL 46		2684	
FL 47		4764	
FL 48		5164	
FL 49		5592	
FL 50		2252	
FL 51		6064	
FL 52		5592	
FL 53		1532	
FL 54		6064	
FL 55		5592	
FL 56		6064	
FL 57		1532	
FL 58		5164	
FL 59		2684	
FL 60		6064	
FL 61		2252	
FL 62		4764	
FL 63		6064	
FL 64		5592	
FL 65		1532	
FL 66		5164	
FL 67		2684	
FL 68		6064	
FL 69		1532	
FL 70		4764	
FL 71		5164	
FL 72		5592	

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: ~~Jalapeno Filter Det 201~~Project Number: ~~10371~~Latitude: ~~32.371255~~Longitude: ~~102.110007~~

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 73		3452	
FL 74		4060	
FL 75		6064	
FL 76		5592	
FL 77		3452	
FL 78		3452	
FL 79		4060	
FL 80		5592	
FL 81		6064	
FL 82		5592	
FL 83		3452	
FL 84		5592	
FL 85		3452	
FL 86		5592	
FL 87		4060	
FL 88		6064	
FL 89		5592	
FL 90		3452	
FL 91		4060	
FL 92		6064	
FL 93		5592	
FL 94		3452	
FL 95		5592	
FL 96		4060	
FL 97		6064	
FL 98		3452	
FL 99		5592	
FL 100		5592	
FL 101		3452	
FL 102		6064	
FL 103		4060	
FL 104		5592	
FL 105		3452	
FL 106		3452	
FL 107		5592	
FL 108		5592	

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: ~~Juliano Inter 1 of 98~~

Project Number: 10274

Latitude: ~~52.571955~~

Longitude: ~~102.410007~~

[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



## Remediation Log

Project: Lightning SWD

Project Number: 17267 Latitude: 32.51011 Longitude: -103.52738

Confirmation of Active One Call? One Call No. \_\_\_\_\_

Confirmation of On-Site JSA? \_\_\_\_\_

Yes No

☐ ☐☐ ☐

Date:

Notes

Yds

\*\*\*\*Begin Remediation Activities\*\*\*\*

Out In

6-10-23

Excavate impacted area, stockpile impacted soil, sample soil and collect soil samples.

6-11-23

"

6-12-23

"

6-13-23

haul out impacted soil and stockpile imported clean backfill material

80

80

9-25-23

30

30

\*\*\*\*Begin Backfill Activities\*\*\*\*

\*\*\*\*Complete Remediation Activities\*\*\*\*

Total Yds

Out

In

110

110

Yes No

☐ ☐☐ ☐

Pictures of Open Excavation Prior to Backfill

Relevant Information in Project Tracker?



## **Appendix C**

### **Laboratory Analytical Reports**



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

---

January 12, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LIGHTNING SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH - 1 @ SURF (H230120-01)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	0.982		
Toluene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.30		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.51	109	6.00	2.21		
Total BTX	<0.300	0.300	01/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	192	95.9	200	8.39	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	179	89.6	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH - 1 @ 6" (H230120-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	0.982	
Toluene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.89	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.30	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.51	109	6.00	2.21	
Total BTEX	<0.300	0.300	01/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 62.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EH - 1 @ SURF (H230120-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/11/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EH - 1 @ 6" (H230120-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/11/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH - 1 @ SURF (H230120-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/11/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH - 1 @ 6" (H230120-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/11/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WH - 1 @ SURF (H230120-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/11/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 62.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WH - 1 @ 6" (H230120-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593	
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/11/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 65.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 1 @ SURF (H230120-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12800	16.0	01/11/2023	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 60.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 1 @ 10" (H230120-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 2 @ SURF (H230120-11)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 2 @ 9" (H230120-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 3 @ SURF (H230120-13)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 65.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 3 @ 8" (H230120-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 4 @ SURF (H230120-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEx	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 4 @ 6" (H230120-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/11/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 5 @ SURF (H230120-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19800	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 5 @ 8" (H230120-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9000	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 6 @ SURF (H230120-19)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26000	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 61.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 6 @ 6" (H230120-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10600	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 7 @ SURF (H230120-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEx	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	01/11/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	174	87.2	200	7.08	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/10/2023  
 Reported: 01/12/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: LEA COUNTY, NM

Sampling Date: 01/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 7 @ 6" (H230120-22)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.0	2.00	0.593		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	0.296		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.10	105	2.00	0.830		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.46	108	6.00	1.20		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	01/11/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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

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

Page 1 of 3

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
Project Manager: Joel Lowry										P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 West Marland										Company: Etech Environmental																	
City: Hobbs State: NM Zip: 88240										Attn: Joel Lowry																	
Phone #: (575) 264-9884 Fax #:										Address: 2617 West Marland																	
Project #: 17267 Project Owner: Solaris										City: Hobbs																	
Project Name: Lightning SWD										State: NM Zip: 88240																	
Project Location: Lea County, NM										Phone #: 575-264-9884																	
Sampler Name: Quentin Reyna										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											
H230120																											
1		NH-1 @ Surf		G	1			X				X			1/6/23		X	X	X								
2		NH-1 @ 6"		G	1			X				X			1/6/23		X	X	X								
3		EH-1 @ Surf		G	1			X				X			1/6/23		X	X	X								
4		EH-1 @ 6"		G	1			X				X			1/6/23		X	X	X								
5		SH-1 @ Surf		G	1			X				X			1/6/23		X	X	X								
6		SH-1 @ 6"		G	1			X				X			1/6/23		X	X	X								
7		WH-1 @ Surf		G	1			X				X			1/6/23		X	X	X								
8		WH-1 @ 6"		G	1			X				X			1/6/23		X	X	X								
9		V-1 @ Surf		G	1			X				X			1/6/23		X	X	X								
10		V-1 @ 10"		G	1			X				X			1/6/23		X	X	X								
<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: 1/10/23		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: 1510						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:						Please email copy of COC and results to pm@etechenv.com.																	
Delivered By: (Circle One)						Sample Condition						CHECKED BY:															
Sampler - UPS - Bus - Other:						Cool Intact						(Initials)															
0.2: c-o.6:						Yes Yes						SK															
-0.4: #113						No No																					

FORM-006  
Revision 1.0

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



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Page 26 of 27

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																			
<b>Project Manager:</b> Joel Lowry				<b>P.O. #:</b>				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																																			
<b>Address:</b> 2617 West Marland				<b>Company:</b> Etech Environmental																																							
<b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240				<b>Attn:</b> Joel Lowry																																							
<b>Phone #:</b> (575) 264-9884 <b>Fax #:</b>				<b>Address:</b> 2617 West Marland																																							
<b>Project #:</b> 17267 <b>Project Owner:</b> Solaris				<b>City:</b> Hobbs																																							
<b>Project Name:</b> Lightning SWD				<b>State:</b> NM <b>Zip:</b> 88240																																							
<b>Project Location:</b> Lea County, NM				<b>Phone #:</b> 575-264-9884																																							
<b>Sampler Name:</b> Quentin Reyna				<b>Fax #:</b>																																							
<b>FOR LAB USE ONLY</b>		<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b>				<b>PRESERV.</b>		<b>SAMPLING</b>																											
						<b>GROUNDWATER</b>		<b>WASTEWATER</b>		<b>SOIL</b>		<b>OIL</b>		<b>SLUDGE</b>		<b>OTHER :</b>		<b>ACID/BASE:</b>		<b>ICE / COOL</b>		<b>OTHER :</b>		<b>DATE</b>		<b>TIME</b>																	
H230120						G		1		X								X				1/6/23				X		X		X													
211		V-2 @ Surf				G		1		X								X				1/6/23				X		X		X													
212		V-2 @ 9"				G		1		X								X				1/6/23				X		X		X													
13		V-3 @ Surf				G		1		X								X				1/6/23				X		X		X													
14		V-3 @ 8"				G		1		X								X				1/6/23				X		X		X													
15		V-4 @ Surf				G		1		X								X				1/6/23				X		X		X													
16		V-4 @ 6"				G		1		X								X				1/6/23				X		X		X													
17		V-5 @ Surf				G		1		X								X				1/6/23				X		X		X													
18		V-5 @ 8"				G		1		X								X				1/6/23				X		X		X													
19		V-6 @ Surf				G		1		X								X				1/6/23				X		X		X													
20		V-6 @ 6"				G		1		X								X				1/6/23				X		X		X													
<p><b>PLEASE NOTE:</b> 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>																																											
<b>Relinquished By:</b>						<b>Date:</b> 1/10/23 <b>Time:</b> 1510						<b>Received By:</b> Skodkiewicz						<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>																									
<b>Relinquished By:</b>						<b>Date:</b> <b>Time:</b>						<b>Received By:</b>						<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b>																									
																		<b>REMARKS:</b>																									
<p>Please email copy of COC and results to pm@etechenv.com.</p>																																											
<b>Delivered By: (Circle One)</b> 0.2i/c-o.v:												<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						<b>CHECKED BY:</b> (Initials) SR																									
<b>Sampler - UPS - Bus - Other:</b> -0.4: #113																																											

**CARDINAL LABORATORIES**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

Page 27 of 27

[illegible]





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

---

February 06, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LIGHTNING SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/01/23 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	02/01/2023	Sampling Date:	01/30/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	LIGHTNING SWD	Sampling Condition:	Cool & Intact
Project Number:	17267	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS - LEA COUNTY, NM		

**Sample ID: V - 6 @ 1' (H230459-01)**

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	02/03/2023	ND	2.11	106	2.00	0.219	
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00	
Total BTX	<0.300	0.300	02/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/02/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	232	116	200	12.6	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	229	114	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager





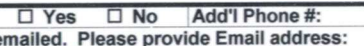

**101 East Marland, Hobbs, NM 88240**  
**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: E Tech Environmental Safety				BILL TO				ANALYSIS REQUEST											
Project Manager: Joel Long				P.O. #:															
Address: 2617 W. Maryland				Company: Solaris															
City: Hobbs State: NM Zip: 88240				Attn:															
Phone #: 505-264-9884 Fax #:				Address:															
Project #: 17267 Project Owner: Solaris				City:															
Project Name: Lightning SWD				State: Zip:															
Project Location: Rumpke Co., NM				Phone #:															
Sampler Name: Miguel Ramirez				Fax #:															
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING							
Lab I.D.				Sample I.D.				DATE				TIME							
H230459				V-6 @ 1'				1/30/23				10:00							
G/RAB OR (C)OMP.				GROUNDWATER				ACID/BASE:				Chloride							
# CONTAINERS				WASTEWATER				ICE / COOL				TPH							
				SOIL				OTHER:				BTEX							
				OIL															
				SLUDGE															
				OTHER:															
				X															

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Relinquished By: 		Date: 2-1-23		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1405				All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: 	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C 22		Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 1.6		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Observed Temp. °C	
				CHECKED BY: (Initials) 		Thermometer ID #113 Correction Factor -0.6°C	
						Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Corrected Temp. °C	

~~FORM-006 R 3.3 07/18/22~~

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



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

---

July 18, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LIGHTNING SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 1 @ 6" (H233582-01)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTX	<0.300	0.300	07/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	196	97.9	200	5.57	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	204	102	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 2 @ 6" (H233582-02)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88		
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14		
Total BTEx	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	196	97.9	200	5.57	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	204	102	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 6" (H233582-03)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEx	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	196	97.9	200	5.57	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	204	102	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 6" (H233582-04)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	196	97.9	200	5.57	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	204	102	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 @ 6" (H233582-05)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	196	97.9	200	5.57	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	204	102	200	5.53	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 6" (H233582-06)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 7 @ 6" (H233582-07)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 @ 6" (H233582-08)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7730	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 @ 6" (H233582-09)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 @ 6" (H233582-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 6" (H233582-11)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88		
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 6" (H233582-12)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 6" (H233582-13)**

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	07/15/2023	ND	1.97	98.7	2.00	2.88		
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	5.35		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.03	102	2.00	6.77		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.08	101	6.00	8.14		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 6" (H233582-14)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6720	16.0	07/14/2023	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 6" (H233582-15)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 16 @ 6" (H233582-16)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 17 @ 6" (H233582-17)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEx	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 18 @ 6" (H233582-18)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50	
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57	
Total BTEX	<0.300	0.300	07/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7920	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 19 @ 6" (H233582-19)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 20 @ 6" (H233582-20)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEx	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 21 @ 6" (H233582-21)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 22 @ 6" (H233582-22)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 23 @ 6" (H233582-23)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEx	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7520	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 24 @ 6" (H233582-24)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 25 @ 6" (H233582-25)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	166	83.0	200	1.80	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	154	76.8	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 26 @ 6" (H233582-26)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 27 @ 6" (H233582-27)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEx	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 28 @ 6" (H233582-28)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50	
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57	
Total BTX	<0.300	0.300	07/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 29 @ 6" (H233582-29)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 30 @ 6" (H233582-30)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 31 @ 6" (H233582-31)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50	
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57	
Total BTEX	<0.300	0.300	07/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 32 @ 6" (H233582-32)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEx	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 33 @ 6" (H233582-33)**

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	07/15/2023	ND	1.99	99.5	2.00	4.50		
Toluene*	<0.050	0.050	07/15/2023	ND	1.92	96.2	2.00	4.70		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.89	94.5	2.00	3.30		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.75	95.9	6.00	2.57		
Total BTEX	<0.300	0.300	07/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1660	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 34 @ 6" (H233582-34)**

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	07/15/2023	ND	2.07	104	2.00	3.75	QM-07	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 35 @ 6" (H233582-35)**

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	07/15/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 36 @ 6" (H233582-36)**

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	07/15/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 37 @ 6" (H233582-37)**

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	07/15/2023	ND	2.07	104	2.00	3.75	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.95	97.5	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.86	97.7	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 38 @ 6" (H233582-38)**

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	07/15/2023	ND	2.07	104	2.00	3.75	
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.95	97.5	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.86	97.7	6.00	2.12	
Total BTEX	<0.300	0.300	07/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	07/14/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 39 @ 6" (H233582-39)**

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	07/15/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/15/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/15/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 40 @ 6" (H233582-40)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 41 @ 6" (H233582-41)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 42 @ 6" (H233582-42)**

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	07/16/2023	ND	2.07	104	2.00	3.75	
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 43 @ 6" (H233582-43)**

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	07/16/2023	ND	2.07	104	2.00	3.75	
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/14/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 44 @ 6" (H233582-44)**

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	07/16/2023	ND	2.07	104	2.00	3.75	
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	07/14/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 45 @ 6" (H233582-45)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	166	83.0	200	1.10	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	163	81.7	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 46 @ 6" (H233582-46)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	23.8	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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**Analytical Results For:**

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

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 47 @ 6" (H233582-47)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	23.1	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 48 @ 6" (H233582-48)**

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	07/16/2023	ND	2.07	104	2.00	3.75	
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	07/14/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	16.3	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 49 @ 6" (H233582-49)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 50 @ 6" (H233582-50)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 51 @ 6" (H233582-51)**

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	07/16/2023	ND	2.07	104	2.00	3.75	
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	07/14/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 52 @ 6" (H233582-52)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 53 @ 6" (H233582-53)**

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	07/16/2023	ND	2.07	104	2.00	3.75		
Toluene*	<0.050	0.050	07/16/2023	ND	2.02	101	2.00	2.84		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.95	97.5	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.86	97.7	6.00	2.12		
Total BTEX	<0.300	0.300	07/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	07/14/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

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 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 54 @ 6" (H233582-54)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEx	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	07/14/2023	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 55 @ 6" (H233582-55)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 56 @ 6" (H233582-56)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 57 @ 6" (H233582-57)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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**Analytical Results For:**

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 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 58 @ 6" (H233582-58)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 59 @ 6" (H233582-59)**

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	07/16/2023	ND	2.10	105	2.00	1.33		
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 60 @ 6" (H233582-60)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 61 @ 6" (H233582-61)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7400	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 62 @ 6" (H233582-62)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 63 @ 6" (H233582-63)**

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	07/16/2023	ND	2.10	105	2.00	1.33		
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333		
Total BTEX	<0.300	0.300	07/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6640	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 64 @ 6" (H233582-64)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
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 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 65 @ 6" (H233582-65)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	168	84.1	200	1.15	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	165	82.7	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
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 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 66 @ 6" (H233582-66)**

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	07/16/2023	ND	2.10	105	2.00	1.33		
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333		
Total BTEX	<0.300	0.300	07/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	210	105	200	12.1	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	209	104	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 67 @ 6" (H233582-67)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	210	105	200	12.1	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	209	104	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 68 @ 6" (H233582-68)**

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	07/16/2023	ND	2.10	105	2.00	1.33		
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7040	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	210	105	200	12.1	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	209	104	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 69 @ 6" (H233582-69)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	210	105	200	12.1	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	209	104	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 70 @ 6" (H233582-70)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	210	105	200	12.1	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	209	104	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 71 @ 6" (H233582-71)**

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	07/16/2023	ND	2.10	105	2.00	1.33	
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	210	105	200	12.1	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	209	104	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/12/2023  
 Reported: 07/18/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/11/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 72 @ 6" (H233582-72)**

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	07/16/2023	ND	2.10	105	2.00	1.33		
Toluene*	<0.050	0.050	07/16/2023	ND	2.01	101	2.00	2.62		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	1.97	98.3	2.00	1.75		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	5.98	99.6	6.00	0.333		
Total BTEX	<0.300	0.300	07/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2023	ND	210	105	200	12.1	
DRO >C10-C28*	<10.0	10.0	07/15/2023	ND	209	104	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	07/15/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager



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

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

1/8

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Joel Lowry <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 17267 <b>Project Owner:</b> Solaris <b>Project Name:</b> Lightning SWD <b>Project Location:</b> Rural Lea Co., NM <b>Sampler Name:</b> Miguel Ramirez				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Solaris <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b> <div style="display: flex; justify-content: space-between;"> <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>															
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										
H233582																							
1	FL 1 @ 6"	C 1			X					X		7/11/23	08:00	X	X	X							
2	FL 2 @ 6"	C 1			X					X			8:05	X	X	X							
3	FL 3 @ 6"	C 1			X					X			8:10	X	X	X							
4	FL 4 @ 6"	C 1			X					X			8:15	X	X	X							
5	FL 5 @ 6"	C 1			X					X			8:20	X	X	X							
6	FL 6 @ 6"	C 1			X					X			8:25	X	X	X							
7	FL 7 @ 6"	C 1			X					X			8:30	X	X	X							
8	FL 8 @ 6"	C 1			X					X			8:45	X	X	X							
9	FL 9 @ 6"	C 1			X					X			8:50	X	X	X							
10	FL 10 @ 6"	C 1			X					X			8:55	X	X	X							

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<b>Relinquished By:</b>  <b>Date:</b> 7-12-23 <b>Time:</b> 1616		<b>Received By:</b>  <b>Date:</b> <b>Time:</b>		<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>Date:</b> <b>Time:</b>		Please email results to pm@etechenv.com.	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: - 9.96		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No			

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

FORM-006  
Revision 1.0





## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/8

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575) 396-2378 Fax #: (575) 396-1429 Project #: 17267 Project Owner: Solaris Project Name: Lightning SWD Project Location: Rural Lea Co., NM Sampler Name: Miguel Ramirez				<b>BILL TO</b> P.O. #: Company: Solaris Attn: Address: City: State: Zip: Phone #: Fax #:				<b>ANALYSIS REQUEST</b>															
FOR LAB USE ONLY Lab I.D. H233582 Sample I.D.				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE/COOL OTHER:		SAMPLING DATE TIME		Chloride TPH (8015M) BTEX (8021B)											
11 FL 11 @ 6" 12 FL 12 @ 6" 13 FL 13 @ 6" 14 FL 14 @ 6" 15 FL 15 @ 6" 16 FL 16 @ 6" 17 FL 17 @ 6" 18 FL 18 @ 6" 19 FL 19 @ 6" 20 FL 20 @ 6"				(GRAB OR (C)OMP. # CONTAINERS 1 1 1 1 1 1 1 1 1 1				2/11/13 9:00 9:05 9:10 9:15 9:20 9:25 9:30 9:35 9:40 9:45		X X X X X X X X X X		X X X X X X X X X X											
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																							
Relinquished By: [Signature] Date: 7-12-23 Time: 1614				Received By: [Signature] Date: [Blank] Time: [Blank]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: [Blank] Add'l Fax #: [Blank]				REMARKS:											
Relinquished By: [Signature]				Received By: [Signature]				Please email results to pm@etechenv.com.															
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) [Signature]				FORM-006 Revision 1.0											

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101 East Marland, Hobbs, NM 88240

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$3/8$$

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Joel Lowry <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 17267 <b>Project Owner:</b> Solaris <b>Project Name:</b> Lightning SWD <b>Project Location:</b> Rural Lea Co., NM <b>Sampler Name:</b> Miguel Ramirez				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Solaris <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>											
								Chloride		TPH (8015M)		BTEX (8021B)							
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.) # CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME												
			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :															
H233582																			
21	FL21 @ 6"	C 1	X			7/11/23	9:50	X	X	X									
22	FL22 @ 6"	C 1	X				9:55	X	X	X									
23	FL23 @ 6"	C 1	X				10:00	X	X	X									
24	FL24 @ 6"	C 1	X				10:05	X	X	X									
25	FL25 @ 6"	C 1	X				10:10	X	X	X									
26	FL26 @ 6"	C 1	X				10:15	X	X	X									
27	FL27 @ 6"	C 1	X				10:20	X	X	X									
28	FL28 @ 6"	C 1	X				10:25	X	X	X									
29	FL29 @ 6"	C 1	X				10:30	X	X	X									
30	FL30 @ 6"	C 1	X				10:35	X	X	X									

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Relinquished By: _____		Date: 7-12-23	Received By: _____		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____		Time: 1:10	Received By: _____		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date: _____	CHECKED BY: _____		REMARKS:	
Time: _____		Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) V.O.		Please email results to pm@etechenv.com.

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>								
Project Manager: Joel Lowry				P.O. #:												
Address: P.O. Box 301				Company: Solaris												
City: Lovington State: NM Zip: 88260				Attn:												
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:												
Project #: 17267 Project Owner: Solaris				City:												
Project Name: Lightning SWD				State: Zip:												
Project Location: Rural Lea Co., NM				Phone #:												
Sampler Name: Miguel Ramirez				Fax #:												
FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(GRAB OR C/COMP.) # CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
		H233582														
31	FL 31 @ 6"		C 1	X						X		7/11/23	10:40	X	X	X
32	FL 32 @ 6"		C 1	X						X			10:45	X	X	X
33	FL 33 @ 6"		C 1	X						X			10:50	X	X	X
34	FL 34 @ 6"		C 1	X						X			10:55	X	X	X
35	FL 35 @ 6"		C 1	X						X			11:00	X	X	X
36	FL 36 @ 6"		C 1	X						X			11:05	X	X	X
37	FL 37 @ 6"		C 1	X						X			11:10	X	X	X
38	FL 38 @ 6"		C 1	X						X			11:15	X	X	X
39	FL 39 @ 6"		C 1	X						X			11:20	X	X	X
40	FL 40 @ 6"		C 1	X						X			11:25	X	X	X

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Relinquished By: _____	Date: 7-12-23	Received By: _____	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
_____	Time: 1610	_____	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By: _____	Date: _____	Received By: _____	REMARKS:	
_____	Time: _____	_____		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140 -9.9c	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) V.P.	Please email results to pm@etechenv.com.
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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5/8

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6/8

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: P.O. Box 301

City: Lovington

State: NM Zip: 88260

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Project #: 17267

Project Owner: Solaris

Project Name: Lightning SWD

Project Location: Rural Lea Co., NM

Sampler Name: Miguel Ramirez

## BILL TO

P.O. #:

Company: Solaris

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

## ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4233582

51 FL51 @ 6"  
52 FL52 @ 6"  
53 FL53 @ 6"  
54 FL54 @ 6"  
55 FL55 @ 6"  
56 FL56 @ 6"  
57 FL57 @ 6"  
58 FL58 @ 6"  
59 FL59 @ 6"  
60 FL60 @ 6"

(GRAB OR C/COMP.)

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

PRESERV.

SAMPLING

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

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Relinquished By:

Date: 7-12-23

Received By:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-9.9°C #140

Sample Condition  
Cool Intact  
☒ Yes ☐ No

CHECKED BY:  
(Initials)  
40.

Phone Result:

☐ Yes ☐ No

Add'l Phone #:

Fax Result:

☐ Yes ☐ No

Add'l Fax #:

REMARKS:

Please email results to pm@etechenv.com.

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

7/8

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: P.O. Box 301

City: Lovington

State: NM Zip: 88260

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Project #: 17267

Project Owner: Solaris

Project Name: Lightwing SWD

Project Location: Rural Lea Co., NM

Sampler Name: Miguel Ramirez

**BILL TO**

P.O. #:

Company: Solaris

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

**ANALYSIS REQUEST**

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H233582

61 FL 61 @ 6"  
62 FL 62 @ 6"  
63 FL 63 @ 6"  
64 FL 64 @ 6"  
65 FL 65 @ 6"  
66 FL 66 @ 6"  
67 FL 67 @ 6"  
68 FL 68 @ 6"  
69 FL 69 @ 6"  
70 FL 70 @ 6"

(GRAB OR COMPOUND)

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE

ICE / COOL

OTHER

PRESERV.

SAMPLING

DATE

TIME

7/11/23 1:10  
1:15  
1:20  
1:25  
1:30  
1:35  
1:40  
1:45  
1:50  
1:55

X X X  
X X X  
X X X  
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X X X

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Relinquished By:

Date: 7-12-23

Time: 1:10

Received By:

Date: 7/12/23

Time: 1:40

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: -9.9c

Sample Condition  
Cool Intact  
☒ Yes ☐ No  
☐ Yes ☐ No

CHECKED BY:  
(Initials)  
Y.O.

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Add'l Phone #:

Add'l Fax #:

Please email results to pm@etechenv.com.

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

July 19, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LIGHTNING SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 16:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 73 @ 6" (H233632-01)**

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	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	07/17/2023	ND	448	112	400	3.64	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 74 @ 6" (H233632-02)**

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	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	07/17/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 75 @ 6" (H233632-03)**

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	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	07/17/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 76 @ 6" (H233632-04)**

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	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	07/17/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 77 @ 6" (H233632-05)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	07/17/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 78 @ 6" (H233632-06)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18		
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58		
Total BTEx	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	07/17/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 79 @ 6" (H233632-07)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	07/17/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 80 @ 6" (H233632-08)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	07/17/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 81 @ 6" (H233632-09)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	07/17/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 82 @ 6" (H233632-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 83 @ 6" (H233632-11)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 84 @ 6" (H233632-12)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 85 @ 6" (H233632-13)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEx	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 86 @ 6" (H233632-14)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 87 @ 6" (H233632-15)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	07/17/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 88 @ 6" (H233632-16)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 89 @ 6" (H233632-17)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 90 @ 6" (H233632-18)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18		
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58		
Total BTEX	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 91 @ 6" (H233632-19)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	07/17/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 92 @ 6" (H233632-20)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 93 @ 6" (H233632-21)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18		
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58		
Total BTEx	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 94 @ 6" (H233632-22)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 95 @ 6" (H233632-23)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18	
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	07/17/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 96 @ 6" (H233632-24)**

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	07/17/2023	ND	1.98	99.1	2.00	1.18		
Toluene*	<0.050	0.050	07/17/2023	ND	2.08	104	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	105	2.00	4.72		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.42	107	6.00	5.58		
Total BTEx	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 97 @ 6" (H233632-25)**

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	07/17/2023	ND	2.23	112	2.00	2.88	QM-07	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33		
Total BTEX	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 98 @ 6" (H233632-26)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 99 @ 6" (H233632-27)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	07/17/2023	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 100 @ 6" (H233632-28)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 101 @ 6" (H233632-29)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	07/17/2023	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	199	99.6	200	1.27	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	194	96.8	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 102 @ 6" (H233632-30)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	07/17/2023	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 103 @ 6" (H233632-31)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 104 @ 6" (H233632-32)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 105 @ 6" (H233632-33)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 106 @ 6" (H233632-34)**

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	07/17/2023	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33		
Total BTEx	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 107 @ 6" (H233632-35)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 108 @ 6" (H233632-36)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	07/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	12.6	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 109 @ 6" (H233632-37)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4600	16.0	07/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 110 @ 6" (H233632-38)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5000	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 111 @ 6" (H233632-39)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 6 (H233632-40)**

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	07/17/2023	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33		
Total BTX	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 1 (H233632-41)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5080	16.0	07/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 2 (H233632-42)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4520	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 3 (H233632-43)**

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	07/17/2023	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33		
Total BTEX	<0.300	0.300	07/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5480	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 4 (H233632-44)**

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	07/17/2023	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	07/17/2023	ND	2.21	110	2.00	2.37	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.49	108	6.00	3.33	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 5 (H233632-45)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	07/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 6 (H233632-46)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEx	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	07/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 1 (H233632-47)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	07/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 2 (H233632-48)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 3 (H233632-49)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	07/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	212	106	200	27.6	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	207	103	200	28.1	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 4 (H233632-50)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	07/17/2023	ND	400	100	400	3.92	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 5 (H233632-51)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 6 (H233632-52)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 1 (H233632-53)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 2 (H233632-54)**

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	07/17/2023	ND	2.11	106	2.00	1.52		
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09		
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32		
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70		
Total BTEx	<0.300	0.300	07/17/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 3 (H233632-55)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 1 (H233632-56)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 2 (H233632-57)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 3 (H233632-58)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 4 (H233632-59)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 07/13/2023  
 Reported: 07/19/2023  
 Project Name: LIGHTNING SWD  
 Project Number: 17267  
 Project Location: SOLARIS - LEA COUNTY, NM

Sampling Date: 07/13/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 5 (H233632-60)**

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	07/17/2023	ND	2.11	106	2.00	1.52	
Toluene*	<0.050	0.050	07/17/2023	ND	2.06	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.19	109	2.00	2.32	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.55	109	6.00	2.70	
Total BTEX	<0.300	0.300	07/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	07/17/2023	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	07/17/2023	ND	188	94.1	200	11.6	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	217	109	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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



† 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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTX (8021B)																																			
Address: P.O. Box 301				Company: Solaris																																							
City: Lovington State: NM Zip: 88260				Attn:																																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																																							
Project #: 17267 Project Owner: Solaris				City:																																							
Project Name: Lightning SWD				State: Zip:																																							
Project Location: Rural Lea Co., NM				Phone #:																																							
Sampler Name: Miguel Ramirez				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															
H233632				C		1						X								X		7/13/23		9:50		X		X		X													
21		FL 93 @ 6"		C		1						X								X				9:55		X		X		X													
22		FL 94 @ 6"		C		1						X								X				10:00		X		X		X													
23		FL 95 @ 6"		C		1						X								X				10:05		X		X		X													
24		FL 96 @ 6"		C		1						X								X				10:10		X		X		X													
25		FL 97 @ 6"		C		1						X								X				10:15		X		X		X													
26		FL 98 @ 6"		C		1						X								X				10:20		X		X		X													
27		FL 99 @ 6"		C		1						X								X				10:30		X		X		X													
28		FL 100 @ 6"		C		1						X								X				10:35		X		X		X													
29		FL 101 @ 6"		C		1						X								X				10:40		X		X		X													
30		FL 102 @ 6"		C		1						X								X																							
<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: [Signature]				Date: 7-23-23				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																											
Relinquished By: [Signature]				Time: 10:09				Received By: [Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																											
Relinquished By: [Signature]				Date: [Signature]				Received By: [Signature]				REMARKS:																															
Relinquished By: [Signature]				Time: [Signature]				Received By: [Signature]				Please email results to pm@etechenv.com.																															
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																																			
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																																			
				<input type="checkbox"/> Yes <input type="checkbox"/> No				[Signature]																																			
				<input type="checkbox"/> No <input type="checkbox"/> No																																							








**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Joel Lowry <b>Address:</b> P.O. Box 301 <b>City:</b> Lovington <b>State:</b> NM <b>Zip:</b> 88260 <b>Phone #:</b> (575) 396-2378 <b>Fax #:</b> (575) 396-1429 <b>Project #:</b> 17267 <b>Project Owner:</b> Solaris <b>Project Name:</b> Lightning SWD <b>Project Location:</b> Rural Lea Co, NM <b>Sampler Name:</b> Miguel Ramirez				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
				<b>P.O. #:</b>		<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>																						
				<b>Company:</b> Solaris																								
				<b>Attn:</b>																								
				<b>Address:</b>																								
				<b>City:</b>																								
				<b>State:</b> <b>Zip:</b>																								
				<b>Phone #:</b>																								
				<b>Fax #:</b>																								
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.		(GRAB OR (C)COMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING																
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H233633																												
41 NW1				C									X	7/13/23	11:35	X	X	X										
42 NW2				C									X	11:40	11:40	X	X	X										
43 NW3				C									X	11:45	11:45	X	X	X										
44 NW4				C									X	11:50	11:50	X	X	X										
45 NW5				C									X	11:55	11:55	X	X	X										
46 NW6				C									X	12:00	12:00	X	X	X										
47 EW1				C									X	12:05	12:05	X	X	X										
48 FW2				C									X	12:10	12:10	X	X	X										
49 FW3				C									X	12:15	12:15	X	X	X										
50 FW4				C									X	12:20	12:20	X	X	X										
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.																												
<b>Relinquished By:</b> 				<b>Date:</b> 7/13/23 <b>Time:</b> 1609		<b>Received By:</b> 				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b>																
<b>Relinquished By:</b>				<b>Date:</b> <b>Time:</b>		<b>Received By:</b>				<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Fax #:</b>																
<b>REMARKS:</b>																												
Please email results to pm@etechenv.com.																												
<b>Delivered By: (Circle One)</b> <input checked="" type="checkbox"/> 7-2: <input type="checkbox"/> 140				<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<b>CHECKED BY:</b> (Initials) 																				

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6/6

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: P.O. Box 301

City: Lovington

State: NM Zip: 88260

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Project #: 17267

Project Owner: Solaris

Project Name: Livingston SWD

Project Location: Rural Gen Co., NM

Sampler Name: Miguel Ramirez

### BILL TO

P.O. #:

Company: Solaris

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

### ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(GRAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

PRESERV.

SAMPLING

DATE

TIME

H233632

51 EWS

52 EW6

53 SW1

54 SW2

55 SW3

56 WW1

57 WW2

58 WW3

59 WW4

60 WWS

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

Relinquished By:

Date: 1-13-23

Time: 1009

Received By:

S. Rodriguez

Relinquished By:

Date:

Time:

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-7.2

#140

Sample Condition

Cool Intact

☒ Yes ☐ No

CHECKED BY:

(Initials)

SR

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




## **Appendix D**


### **Photographic Log**


## Photographic Log

<b>Photo Number:</b> 1	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of initial release.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of initial release.	


Photographic Log



<b>Photo Number:</b> 3	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of initial release.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of initial release.	



## Photographic Log

<b>Photo Number:</b> 5	  <p>Jul 13, 2023 at 11:05:04 AM +32.510150,-103.527220 247° SW Lea County</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of excavated area.	

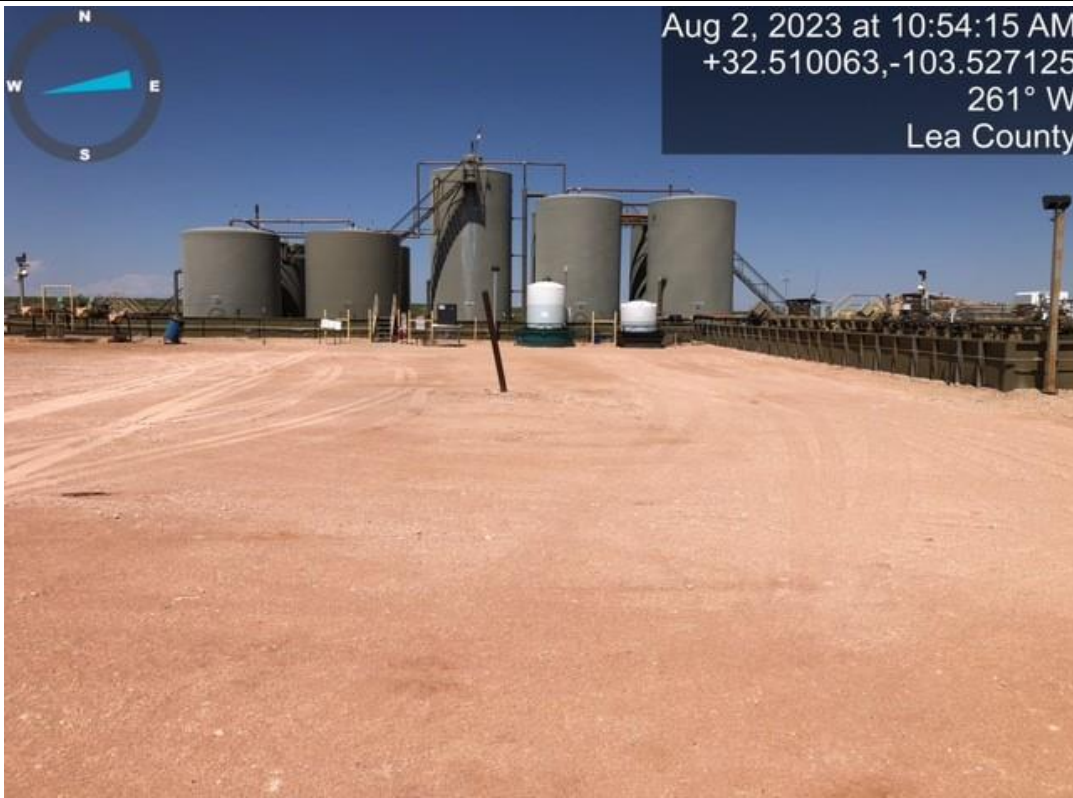
<b>Photo Number:</b> 6	  <p>Jul 13, 2023 at 11:05:47 AM +32.510399,-103.527258 328° NW Lea County</p>
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of excavated area.	

## Photographic Log







## Photographic Log

<b>Photo Number:</b> 9	 <p>Aug 2, 2023 at 10:54:15 AM +32.510063,-103.527125 261° W Lea County</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of area after backfill and grading.	

<b>Photo Number:</b> 10	 <p>Aug 2, 2023 at 10:56:15 AM +32.510503,-103.527761 130° SE Lea County</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of area after backfill and grading.	



## Photographic Log

<b>Photo Number:</b> 11	 <div>Aug 2, 2023 at 10:55:24 AM +32.510511,-103.527278 280° W Lea County</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of area after backfill and grading.	

<b>Photo Number:</b> 12	 <div>Aug 2, 2023 at 10:54:24 AM +32.510063,-103.527125 340° N Lea County</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of area after backfill and grading.	

## **Appendix E**

### **Electronic C-141 Supplemental Documentation**

- 1 - Distance to Nearest Watercourse
- 2 - Distance to Nearest Lakebed, Sinkhole, or Playa Lake
- 3 - Distance to Nearest Residence, School, Hospital, Institution, or Church
- 4 - Distance to Nearest Freshwater Well or Spring
- 5 - Distance to Nearest Incorporated Municipal Boundary
- 6 - Distance to Nearest Wetland
- 7 - Distance to Nearest Subsurface Mine
- 8 - Local Karst Potential
- 9 - Distance to Nearest 100-Year Floodplain
- 10 - Delineation Sample Map
- 11 - Concentrations of BTEX, TPH, and Chloride in Soil
- 12 - Future Reclamation Map

Layer List

Layers

OSE Water PODs

...

M2.5+ Earthquakes (USGS 30-day)

...

NM Oil and Gas Wells

...

USGS Groundwater wells

...

Induced Seismicity Area

...

Permian Basin Karst Areas

...

BLM Oil Gas Leases Case Disp

...

BLM Oil Gas Leases Production Status

...

BLM Fluid Minerals Case

...

BLM FM Agreements Case Disp

...

BLM FM Agreements Production Status

...

BLM FM Participating Areas Case Disp

...

NM SLO Oil and Gas Leases

...

NM SLO Participating Area and Unit Agreement Boundaries

...

Political Boundaries and Transportation

...

Mineral and Surface Ownership

...

Hydrology

...

NMED Drinking Water Systems

...

OSE Streams

...

OSE Probable Playas

...

OSW Water Bodies

...

The map displays a geographical area in Lea, New Mexico, with various hydrology features highlighted in blue. These features include several water bodies and streams. A blue line segment is drawn on the map, connecting two points, and a measurement window indicates this distance is 0.98 miles. The map also shows roads, including Orion Ln, County Road 27, and Marathon Rd, as well as elevation markers such as 3814 ft, 3815 ft, 3814 ft, 3781 ft, 3782 ft, 3752 ft, and 3738 ft. A search bar at the top left shows the coordinates 32.51011, -103.52738. The map is part of a larger application with a layer list on the left and a measurement window in the center.

Released to Imaging: 4/15/2024 2:37:41 PM

All rights reserved

NASA, NGA, USGS, FEMA | Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wil...





- 0.11

✕



Miles ▼

Measurement Result

0.33 Miles

Clear

Press CTRL to enable snapping



-103.53288 32.51161 Degrees



Basemap Gallery

Imagery

Imagery with Labels

National Geographic

OpenStreetMap

Streets

Terrain with Labels

Topographic

USA Topo Maps

USGS National Map

Topographic

+

-

▼

32.51011, -103.52738

×

🔍

🖨️

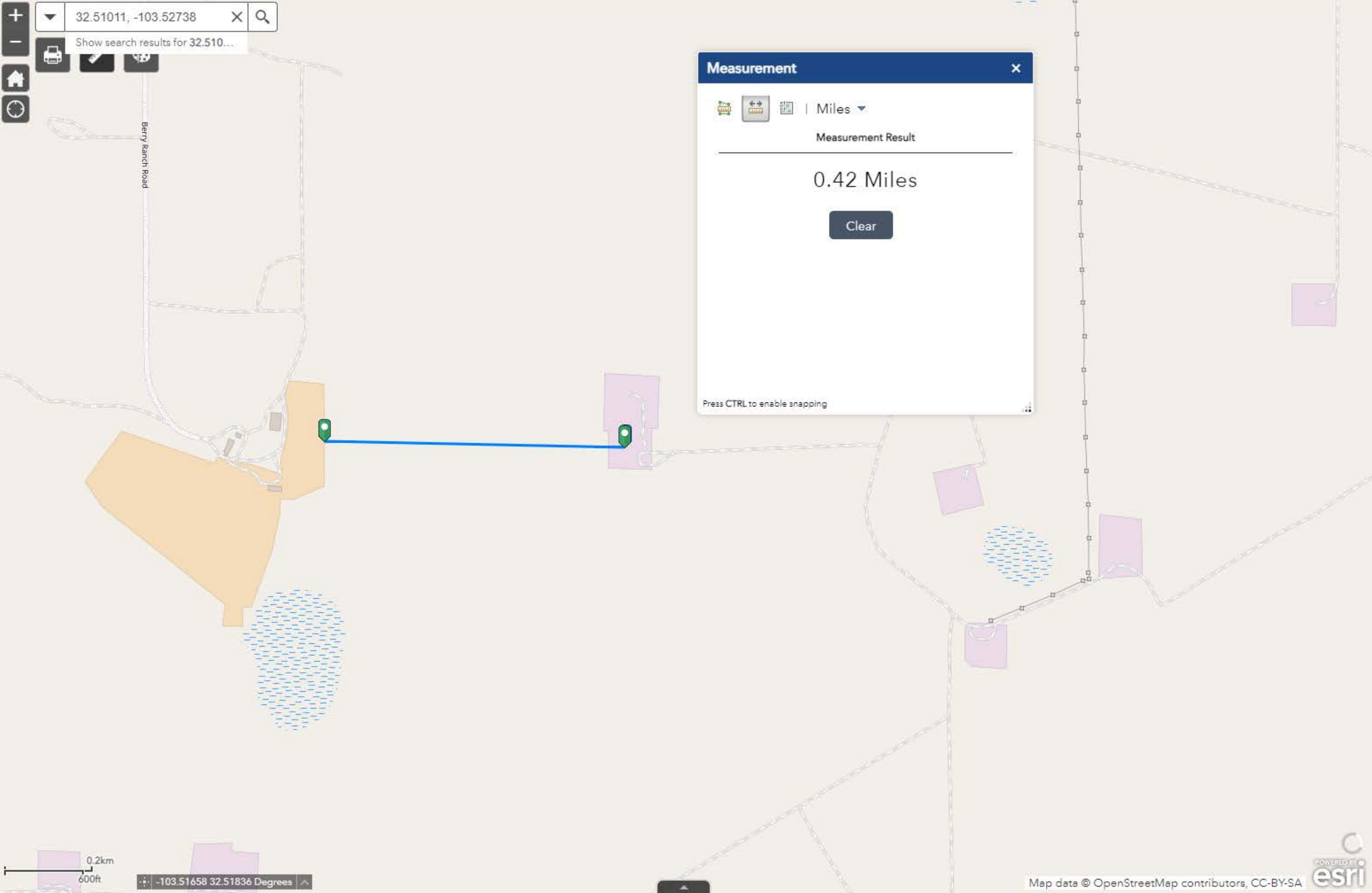
📏

📍

🏠

🕒

Show search results for 32.510...



Measurement

Miles

Measurement Result

0.42 Miles

Clear

Press CTRL to enable snapping





Layer List

Layers

☒ OSE Water PODs

Active

Pending

Changed Location of Well

Inactive

Plugged

Capped

Unknown

☐ M2.5+ Earthquakes (USGS 30-day)

☐ NM Oil and Gas Wells

☒ USGS Groundwater wells

☒ USGS Active Monitoring GW Wells

☐ USGS Historical GW Wells

☐ Induced Seismicity Area

☐ Permian Basin Karst Areas

☐ BLM Oil Gas Leases Case Disp

☐ BLM Oil Gas Leases Production Status

☐ BLM Fluid Minerals Case

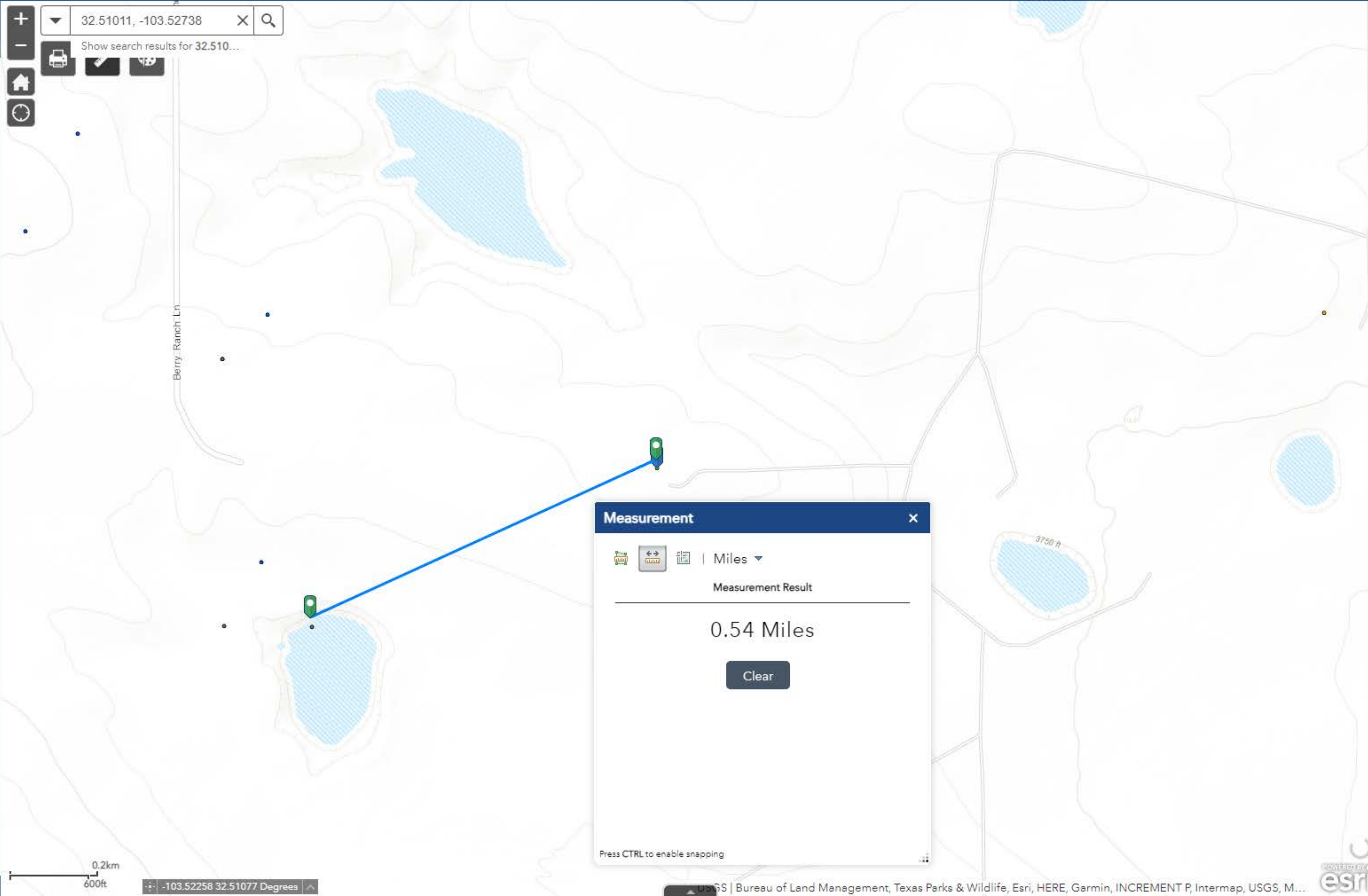
☐ BLM FM Agreements Case Disp

☐ BLM FM Agreements Production Status

☐ BLM FM Participating Areas Case Disp

☐ NM SLO Oil and Gas Leases

☐ NM SLO Participating Areas and Unit Agreements









BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☒ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☒ Data Source 1 2
  - ☐ Source Type
  - ☐ Image Scale
  - ☐ Image Year
- ☐ Areas of Interest 2
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2



Measure

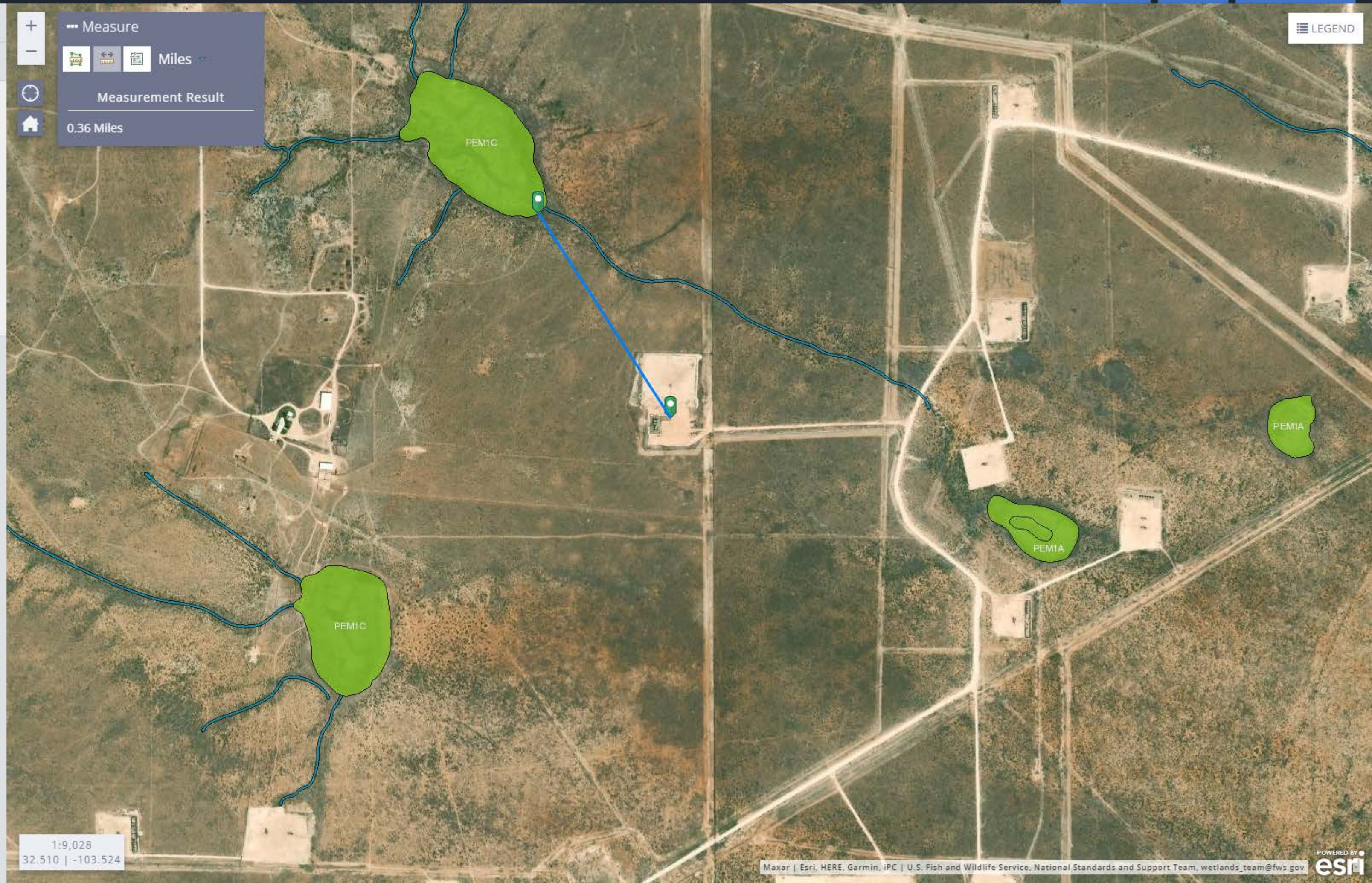


Miles

Measurement Result

0.36 Miles

LEGEND



1:9,028  
32.510 | -103.524

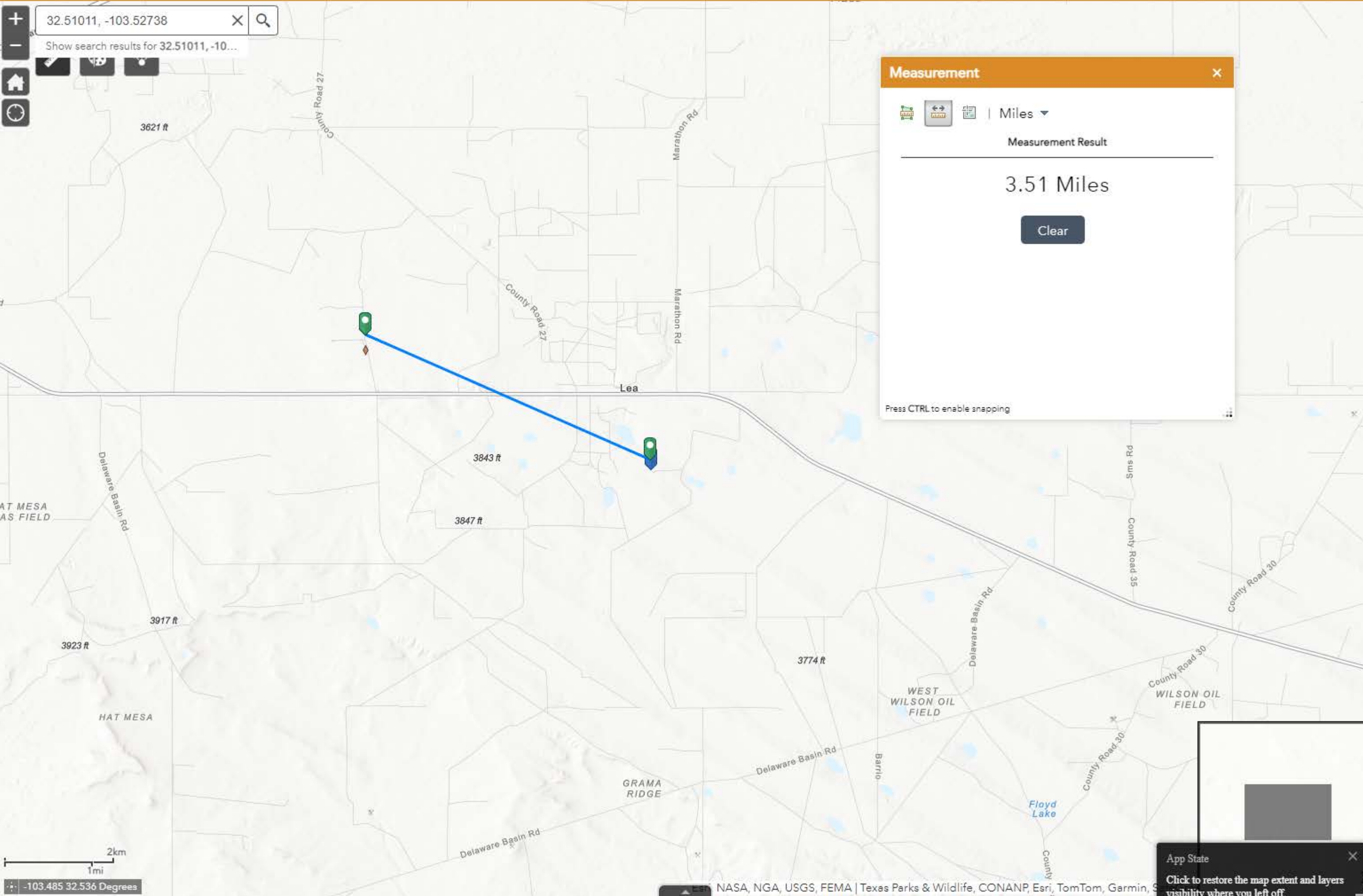




Layer List

Layers

- ☒ Registered Mines
  - Aggregate, Stone etc.
  - Coal
  - Gypsum
  - Humate
  - Industrial Minerals (Other)
  - Metals
  - Perlite
  - Potash
  - PM Pumice
  - Red Dog, Scoria
  - Salt
  - Uranium
  - ZE Zeolites
- ☐ Mineral\_and\_Surface\_Ownership
- ☐ Public Land Survey System (PLSS)



Measurement

Miles

Measurement Result

3.51 Miles

Clear

Press CTRL to enable snapping

App State

Click to restore the map extent and layers visibility where you left off.



Layer List

Layers

OSE Water PODs

...

M2.5+ Earthquakes (USGS 30-day)

...

NM Oil and Gas Wells

...

USGS Groundwater wells

...

Induced Seismicity Area

...

Permian Basin Karst Areas

...

Critical Karst Resource Area

...

...

Karst Occurrence Potential

...

High

Medium

Low

BLM Oil Gas Leases Case Disp

...

BLM Oil Gas Leases Production Status

...

BLM Fluid Minerals Case

...

BLM FM Agreements Case Disp

...

BLM FM Agreements Production Status

...

BLM FM Participating Areas Case Disp

...

NM SLO Oil and Gas Leases

...

NM SLO Participating Area and Unit Agreement Boundaries

...

Political Boundaries and Transportation

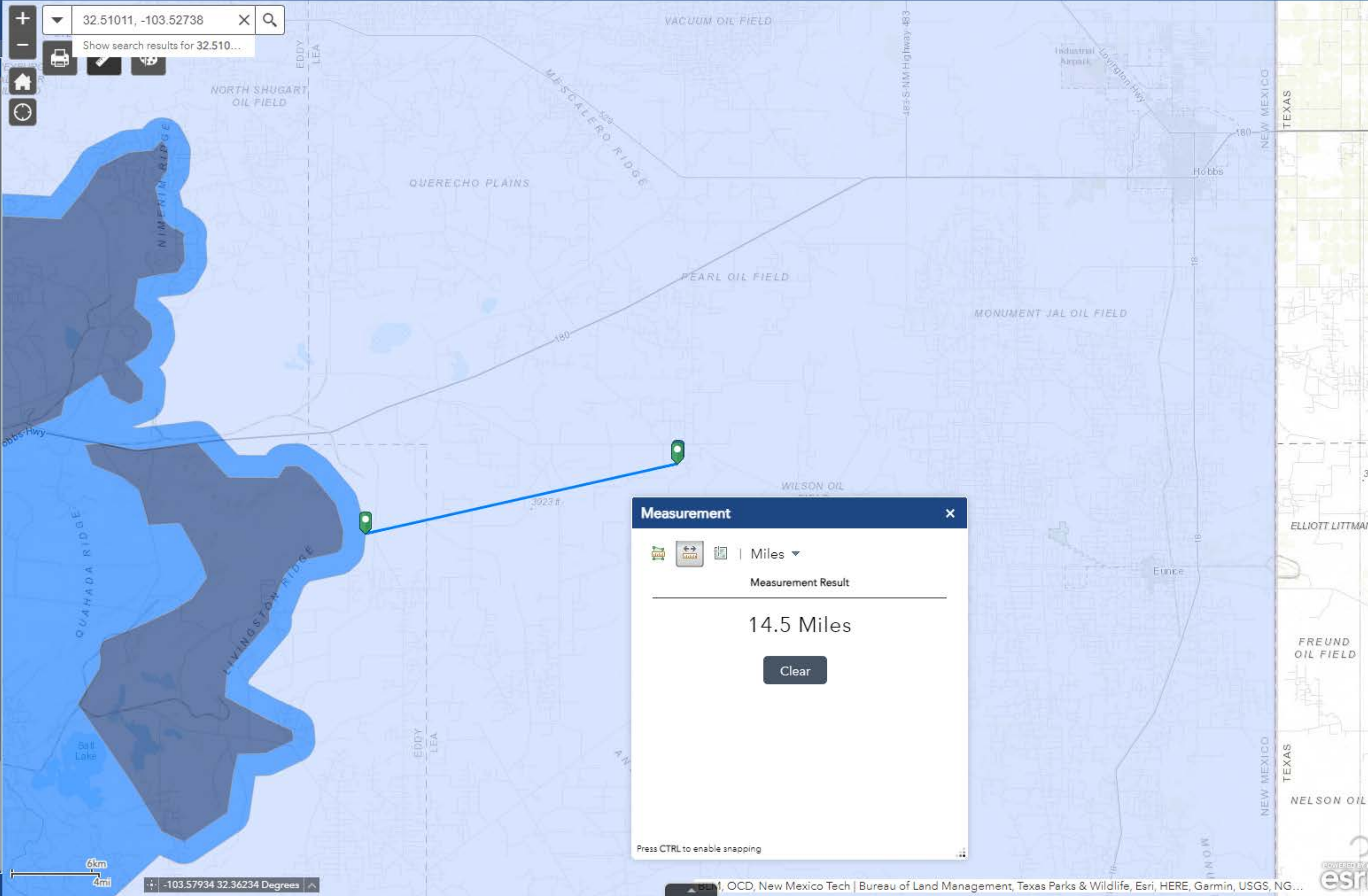
...

Mineral and Surface Ownership

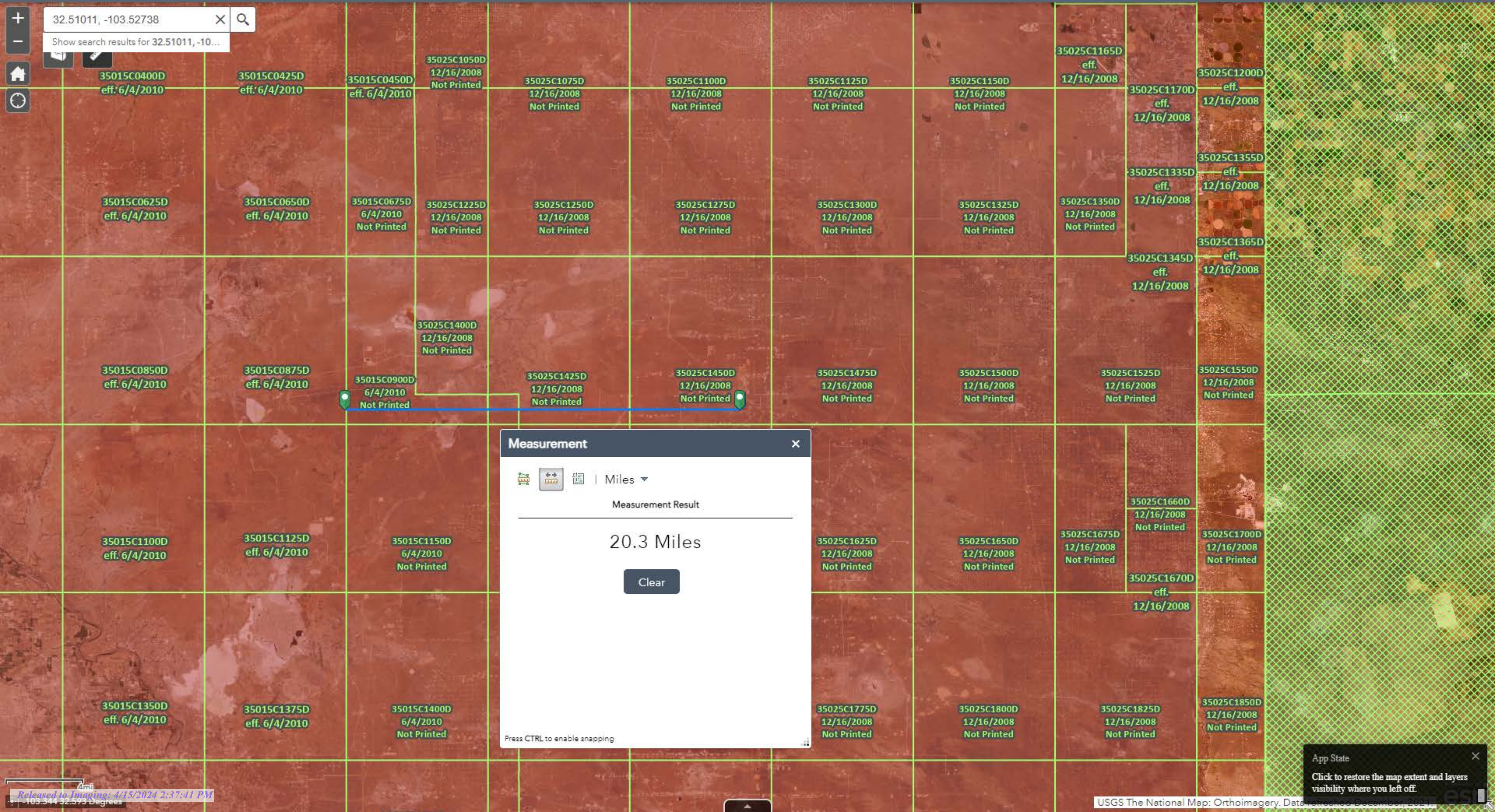
...

Hydrology

...







32.51011, -103.52738



Show search results for 32.51011, -10...

35015C0400D  
eff. 6/4/2010

35015C0425D  
eff. 6/4/2010

35015C0450D  
eff. 6/4/2010

35025C1050D  
12/16/2008  
Not Printed

35025C1075D  
12/16/2008  
Not Printed

35025C1100D  
12/16/2008  
Not Printed

35025C1125D  
12/16/2008  
Not Printed

35025C1150D  
12/16/2008  
Not Printed

35025C1165D  
eff.  
12/16/2008

35025C1170D  
eff.  
12/16/2008

35025C1200D  
eff.  
12/16/2008

35015C0625D  
eff. 6/4/2010

35015C0650D  
eff. 6/4/2010

35015C0675D  
6/4/2010  
Not Printed

35025C1225D  
12/16/2008  
Not Printed

35025C1250D  
12/16/2008  
Not Printed

35025C1275D  
12/16/2008  
Not Printed

35025C1300D  
12/16/2008  
Not Printed

35025C1325D  
12/16/2008  
Not Printed

35025C1350D  
12/16/2008  
Not Printed

35025C1335D  
eff.  
12/16/2008

35025C1355D  
eff.  
12/16/2008

35025C1365D  
eff.  
12/16/2008

35025C1345D  
eff.  
12/16/2008

35015C0850D  
eff. 6/4/2010

35015C0875D  
eff. 6/4/2010

35015C0900D  
6/4/2010  
Not Printed

35025C1400D  
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Not Printed

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35025C1500D  
12/16/2008  
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35025C1525D  
12/16/2008  
Not Printed

35025C1550D  
12/16/2008  
Not Printed

35015C1100D  
eff. 6/4/2010

35015C1125D  
eff. 6/4/2010

35015C1150D  
6/4/2010  
Not Printed

35025C1625D  
12/16/2008  
Not Printed

35025C1650D  
12/16/2008  
Not Printed

35025C1675D  
12/16/2008  
Not Printed

35025C1660D  
12/16/2008  
Not Printed

35025C1700D  
12/16/2008  
Not Printed

35025C1670D  
eff.  
12/16/2008

35015C1350D  
eff. 6/4/2010

35015C1375D  
eff. 6/4/2010

35015C1400D  
6/4/2010  
Not Printed

35025C1775D  
12/16/2008  
Not Printed

35025C1800D  
12/16/2008  
Not Printed

35025C1825D  
12/16/2008  
Not Printed

35025C1850D  
12/16/2008  
Not Printed

### Measurement



Miles

Measurement Result

20.3 Miles

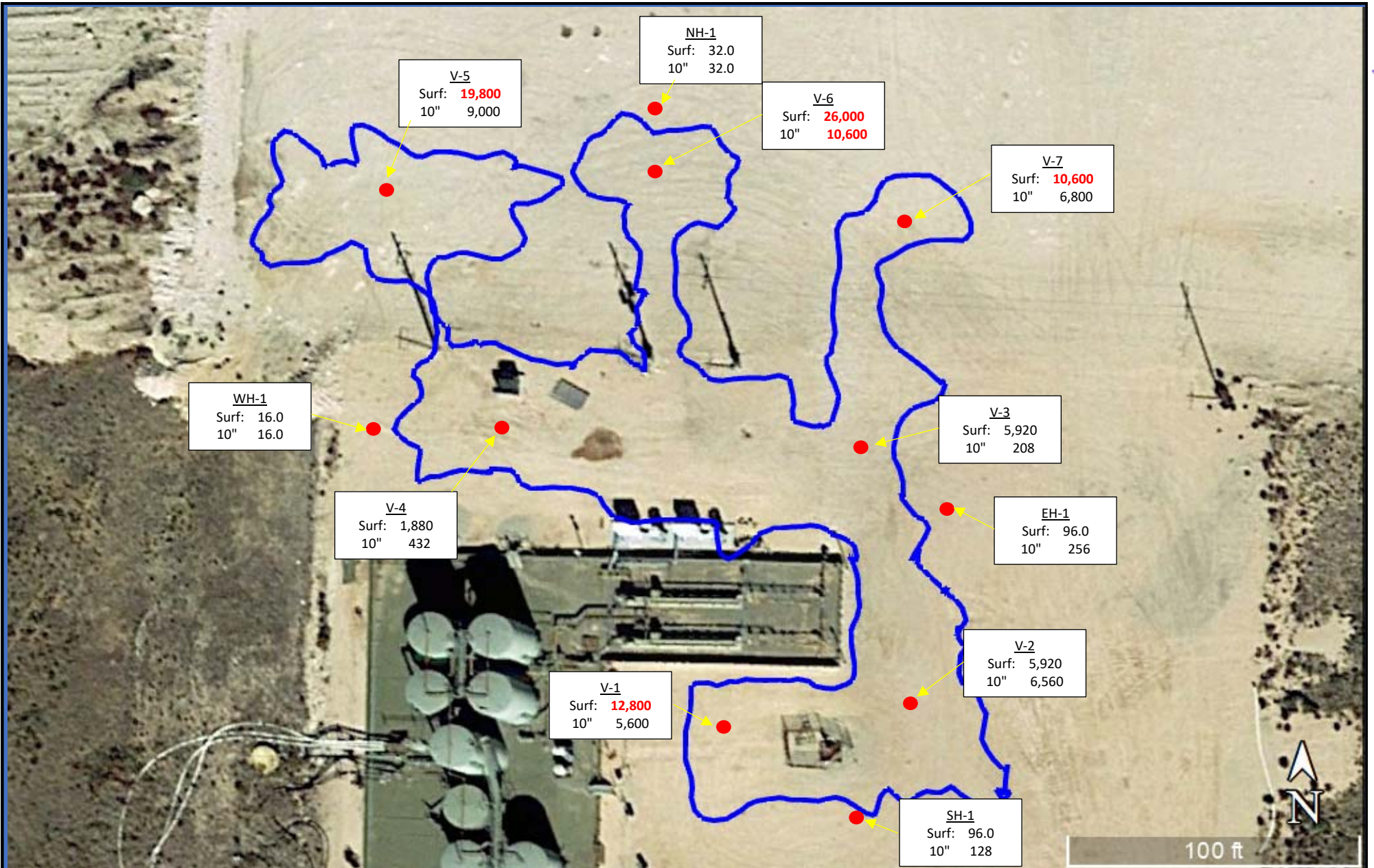
Clear

Press CTRL to enable snapping

App State

Click to restore the map extent and layers  
visibility where you left off





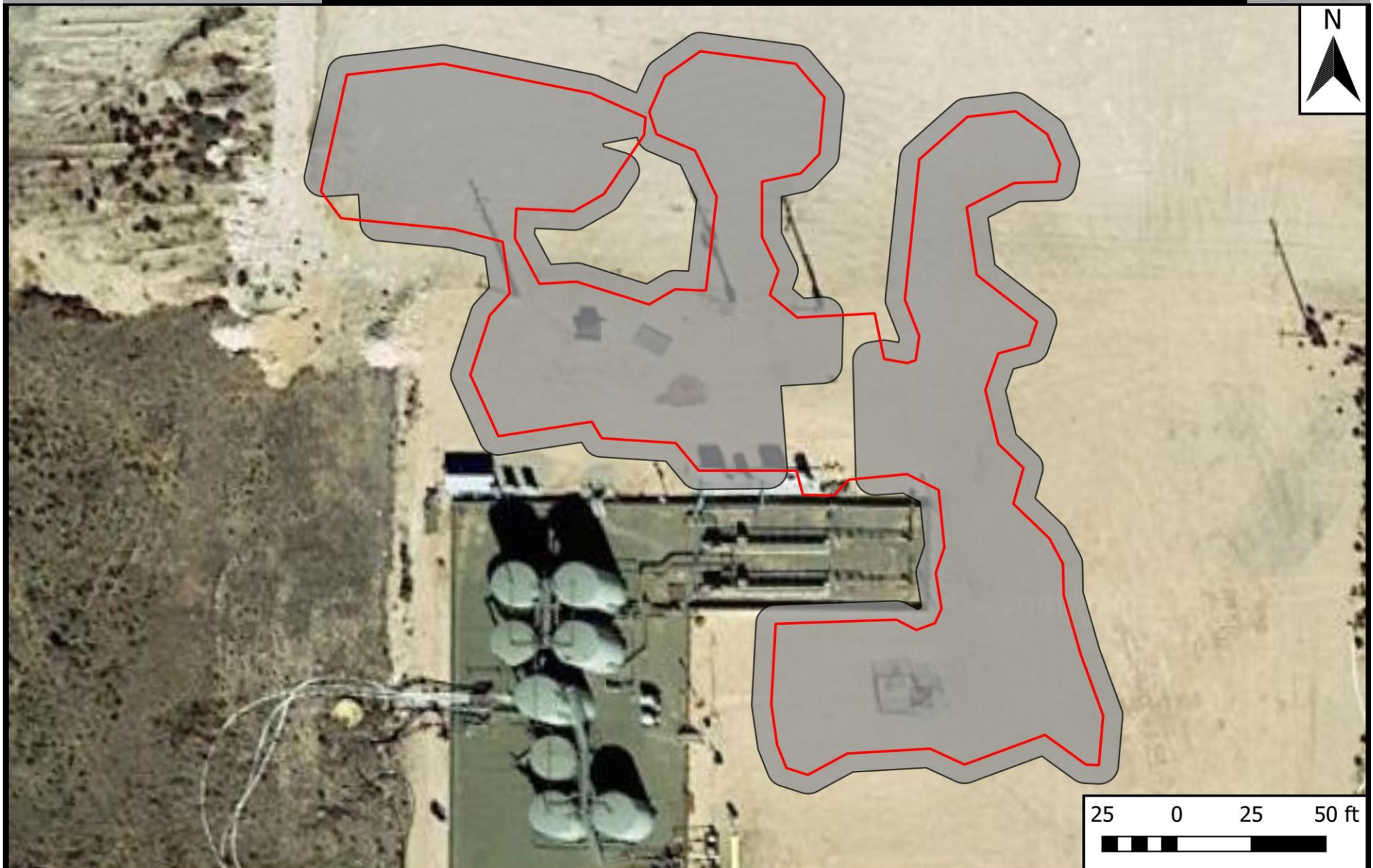
<p><b>Legend:</b></p> <ul style="list-style-type: none"> <li>● Sample Point</li> <li>○ Affected Area</li> </ul>	<p align="center"><b>Figure</b></p> <p align="center">Delineation Sample Map Solaris Water Midstream, LLC Lightning SWD GPS: 32.51011, -103.52738 Lea County</p>	<div data-bbox="1344 1318 2047 1445"> </div> <div data-bbox="1344 1510 2047 1555"> <p>Drafted:                      Checked: jwl                      Date: 1/16/23</p> </div>
---	--	--

<b>Hi wt g'33</b> <b>Concentrations of BTEX, TPH, and Chloride in Soil</b> <b>Solaris Water Midstream, LLC</b> <b>Lightning SWD</b> <b>NMOCD Ref. #: nAPP2234029508</b>											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
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)
EH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WH - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH - 1 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V - 1 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,800
V - 1 @ 10"	1/6/2023	0.83	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
V - 2 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
V - 2 @ 9"	1/6/2023	0.75	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,560
V - 3 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
V - 3 @ 8"	1/6/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
V - 4 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
V - 4 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
V - 5 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,800
V - 5 @ 8"	1/6/2023	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,000
V - 6 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	26,000
V - 6 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,600
V - 6 @ 1'	1/30/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
V - 7 @ Surf	1/6/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,600
V - 7 @ 6"	1/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800

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

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



**Legend**

Excavation Outline   
(26,075 Sq Ft)  
Future Reclamation   
(34,474 Sq Ft)

Figure 12  
Future Reclamation Map  
Solaris Water Midstream, LLC  
Lightning SWD  
GPS: 32.51011, -103.52738  
Lea County

**eTECH**   
Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 1/22/24

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

QUESTIONS  
  
Action 311187

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	311187
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2234029508
Incident Name	NAPP2234029508 LIGHTNING SWD @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LIGHTNING SWD
Date Release Discovered	12/05/2022
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 80 BBL   Recovered: 20 BBL   Lost: 60 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 311187

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Rob Kirk Title: General Manager Email: rob.kirk@solarismidstream.com Date: 12/14/2023
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QUESTIONS, Page 3

Action 311187

**QUESTIONS (continued)**

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:	371643
	Action Number:	311187
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	26000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	23.1
GRO+DRO (EPA SW-846 Method 8015M)	12.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	06/10/2023
On what date will (or did) the final sampling or liner inspection occur	07/13/2023
On what date will (or was) the remediation complete(d)	07/25/2023
What is the estimated surface area (in square feet) that will be reclaimed	34474
What is the estimated volume (in cubic yards) that will be reclaimed	2554
What is the estimated surface area (in square feet) that will be remediated	26075
What is the estimated volume (in cubic yards) that will be remediated	110

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

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

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QUESTIONS, Page 4

Action 311187

**QUESTIONS (continued)**

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**QUESTIONS****Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Rob Kirk Title: General Manager Email: rob.kirk@solarismidstream.com Date: 02/05/2024
--	--

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

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QUESTIONS, Page 5  
  
Action 311187

**QUESTIONS (continued)**

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Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 311187

**QUESTIONS (continued)**

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Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	298157
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/11/2023
What was the (estimated) number of samples that were to be gathered	132
What was the sampling surface area in square feet	22000

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	26075
What was the total volume (cubic yards) remediated	110
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	110
Summarize any additional remediation activities not included by answers (above)	See attached Closure Report

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Rob Kirk Title: General Manager Email: rob.kirk@solarismidstream.com Date: 02/05/2024
--	--

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QUESTIONS, Page 7  
  
Action 311187

QUESTIONS (continued)

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Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS  
  
Action 311187

CONDITIONS

Operator:  SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:  371643
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	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete"	4/15/2024
scott.rodgers	• The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/15/2024