

**Spill Volume(Bbls) Calculator***Inputs in blue, Outputs in red*

Length(Ft)	Width(Ft)	Depth(In)
<u>775.000</u>	<u>3.000</u>	<u>36.000</u>
Cubic Feet Impacted		<u>6975.000</u>
Barrels		<u>1242.21</u>
Soil Type		<u>Sand</u>
Bbls Assuming 100% Saturation		<u>248.44</u>
Saturation	<u>Damp no fluid when squeezed</u>	
Estimated Barrels Released		<u>24.90000</u>

**Instructions**

1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.

(For data gathering instructions see appendix tab)

**Measurements**

Length (ft)	<u>775</u>
Width (ft)	<u>3</u>
Depth (in)	<u>36.000</u>









October 8, 2024

NMOCD District 2  
Artesia, NM 88210

Bureau of Land Management  
Ms. Crisha Morgan  
620 East Green Street  
Carlsbad, NM 88220

**Re:     Work Plan**  
**Riser 38**  
**GPS: Latitude 32.8415 Longitude -104.061**  
**U/L “B,” Sec. 15, T17S, R29E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAPP2322647988**

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform remediation activities for the Release Site known as the Riser 38 (Riser). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	24 bbls
		Volume Recovered:	5 bbls
Source of Release:	Polypipe Failure	Date of Release:	8/14/23
Was Immediate Notice Given?	No	If, Yes, to Whom?	N/A
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	

Topographical and Wetlands Maps are provided as Figures #2 and #4.

## REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of any fluids or gases are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance, and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on depth to groundwater and the following characteristics:

- Depth to Groundwater in the affected area 100-500'
- Method to determine DTW NM OSE
- Did the release impact groundwater or surface water No

Depth to groundwater information is provided in Appendix A.

What are the minimum distances between the closest lateral extents of the release and the following surface areas:

- A Continuously flowing watercourse or any other significant watercourse- > 5 Mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1-5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1-5 mi
- A wetland- 500-1000'
- A subsurface mine- >5 mi
- An (non-karst) unstable area- Zero feet, overlying, or within the area
- Categorize the risk of this well/site being in a karst area geology- High
- A 100-year floodplain- 1/2-1 mi
- Did the release impact areas not on an exploration, development, production, or storage site- Yes

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of the High Plains region (middle to lower Pleistocene)- Includes scattered lacustrine playa, and alluvial deposits of the Tahoka, Double Tanks, Tule, Blackwater Draw, and Gatuna Formations, the latter of which may be Pliocene at base; outcrops, however, are basically of quaternary deposits (QOA). The soil in this area is made up of Reeves-Gypsum land complex, 0 to 3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is a High potential for karst geology to be present around the Riser (Figure #3).

## INITIAL SITE ASSESSMENT

Another company originally assessed the site, and the samples were subsequently submitted to an approved laboratory for analysis. A table summarizing the laboratory analytical results from the soil samples collected during the above-stated activities is provided below:

## Soil Sample Results

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Spur Energy Partners, LLC Riser 38 NMOCD Ref. #: nAPP2322647988											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>10</sub> -C <sub>16</sub> (mg/kg)	DRO C <sub>18</sub> -C <sub>24</sub> (mg/kg)	GRO + DRO C <sub>10</sub> -C <sub>24</sub> (mg/kg)	ORO C <sub>25</sub> -C <sub>34</sub> (mg/kg)	TPH C <sub>35</sub> -C <sub>40</sub> (mg/kg)	Chloride (mg/kg)
EH1 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH1 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH1 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH1 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NH2 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NH2 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH3 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH3 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH4 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
NH4 @ 0'	5/23/2024	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH4 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH4 @ 1'	5/23/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH5 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH5 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH1 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH1 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH2 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH2 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH3 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SH3 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SH4 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH4 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH5 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH5 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH1 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WH1 @ 1'	8/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
V1 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,800
V1 @ 5'	8/23/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,400
SP 1 @ 14'	3/12/2024	14	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	3,880
SP 1 - 18'	5/13/2024	18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
SP 1 - 22'	5/13/2024	22	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
V2 @ 0'	8/23/2023	0	In-Situ	<0.050	0.801	21.2	316	337	49.4	387	14,400
V2 @ 5'	8/23/2023	5	In-Situ	<0.050	4.53	21.3	117	138	13.1	151	15,800
SP 2 @ 14'	3/12/2024	14	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
SP 2 - 18'	5/13/2024	18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
SP 2 - 22'	5/13/2024	22	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
V3 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	23,600
V3 @ 5'	8/23/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	18,000
SP 3 @ 14'	3/12/2024	14	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	768
SP 3 - 18'	5/13/2024	18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
V4 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	18.2	18.2	<10.0	18.2	11,400
V4 @ 5'	8/23/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,600
SP 4 @ 6'	3/12/2024	6	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	272
V5 @ 0'	8/23/2023	0	In-Situ	<0.050	<0.300	<10.0	672	672	175	847	4,800
V5 @ 5'	8/23/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,600
SP 5 @ 6'	3/12/2024	6	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	192

Laboratory analytical reports are provided in Appendix B. A Site Map is provided in Figure 1

### PROPOSED REMEDIATION ACTIVITIES

Based on the analytical results, site characteristics, and field observations made during the site assessment, Paragon recommends the following remedial activities be conducted to advance the Release Site towards an NMOCD and BLM-approved closure:

- Utilizing mechanical equipment and a hydrovac, we will excavate the impacted soils that were above the NMOCD Closure Criteria ranging in depths. This excavation was discussed between Braidy Moulder of Spur and Robert Hamlet with the NMOCD. Holly Sinclair had stipulations in regard to the safety of the individuals and the integrity of their pipelines. It was verbally agreed upon that the excavation would only go 6 feet below any of the pipelines for the safety of individuals and to maintain the integrity of the pipelines. See HF Sinclairs letter Appendix C. A clay and bentonite liner will be installed in the areas of SP1, SP2, and SP3. These are areas where delineation depths were greater than what all parties would deem safe depths of excavation. See Site Map for the below areas of excavation and different depths.
  - The areas of SP1, SP2, and SP3 will follow the plan to excavate 4-6 feet below where we have potholed and found the pipelines. The square feet of these combined areas are 9500 s/f and account for approximately 3530 yards.
  - The areas of SP4 and SP5 will be fully excavated to a total depth of 13 feet BGS. These areas measure 4200 s/f and account for 2022 yards.
- A confirmation soil sampling event in accordance with 19.15.19.12 NMAC will be conducted, giving the OCD a 48-hour notification.



If you have any questions or need any additional information, please feel free to contact Chris Jones by phone or email.

Respectfully,



Chris Jones  
Environmental Professional  
Paragon Environmental, LLC

**Attachments**

**Figures:**

- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Wetland Map
- 5- Line Map 1
- 6- Line Map 2

**Appendices:**

- Appendix A- Referenced Water Surveys
- Appendix B- Laboratory Results
- Appendix C- HF Sinclair Letter



Figures:







- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Wetlands Map
- 5- Line Map 1
- 6- Line Map 2



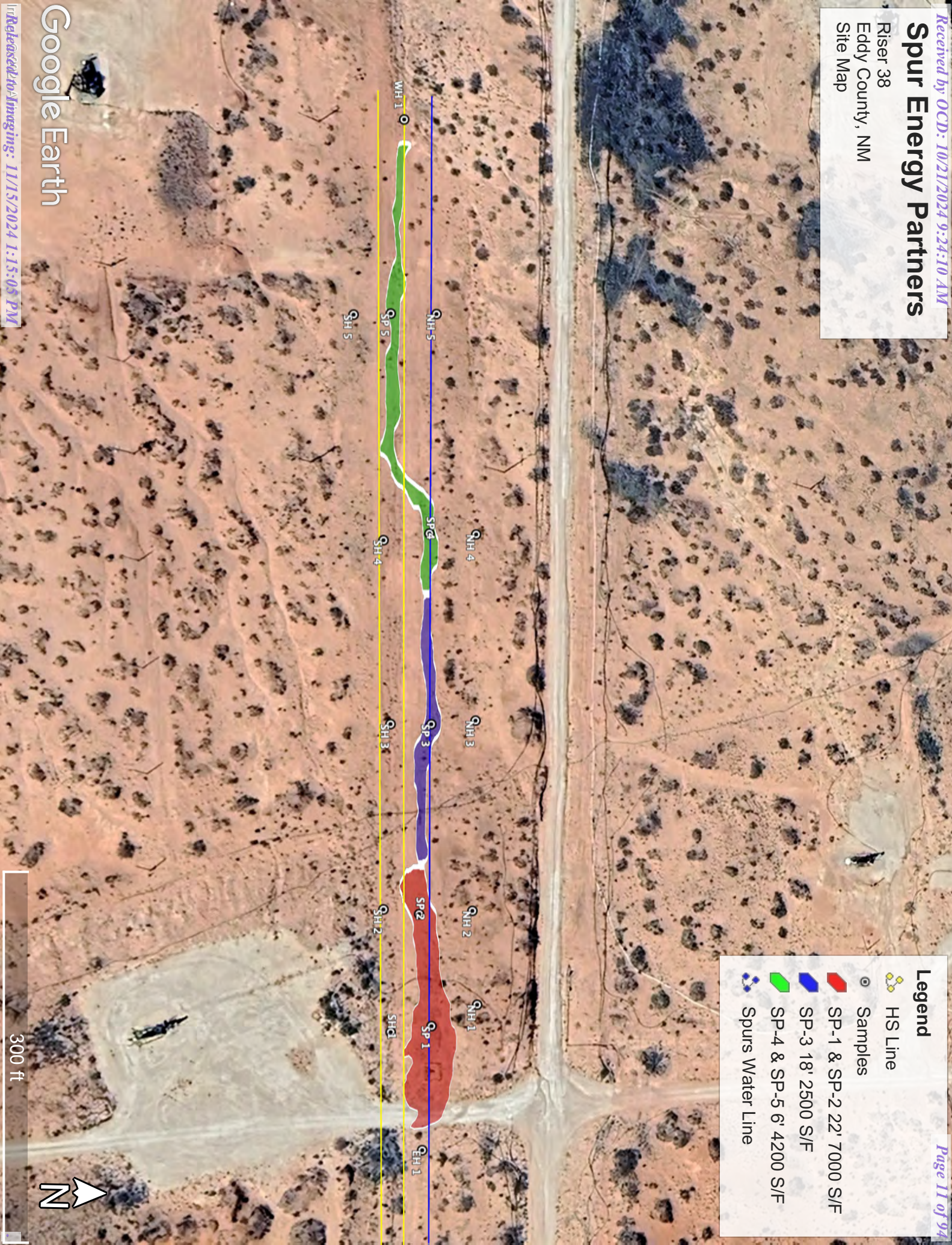
# Spur Energy Partners

Riser 38  
Eddy County, NM  
Site Map

## Legend

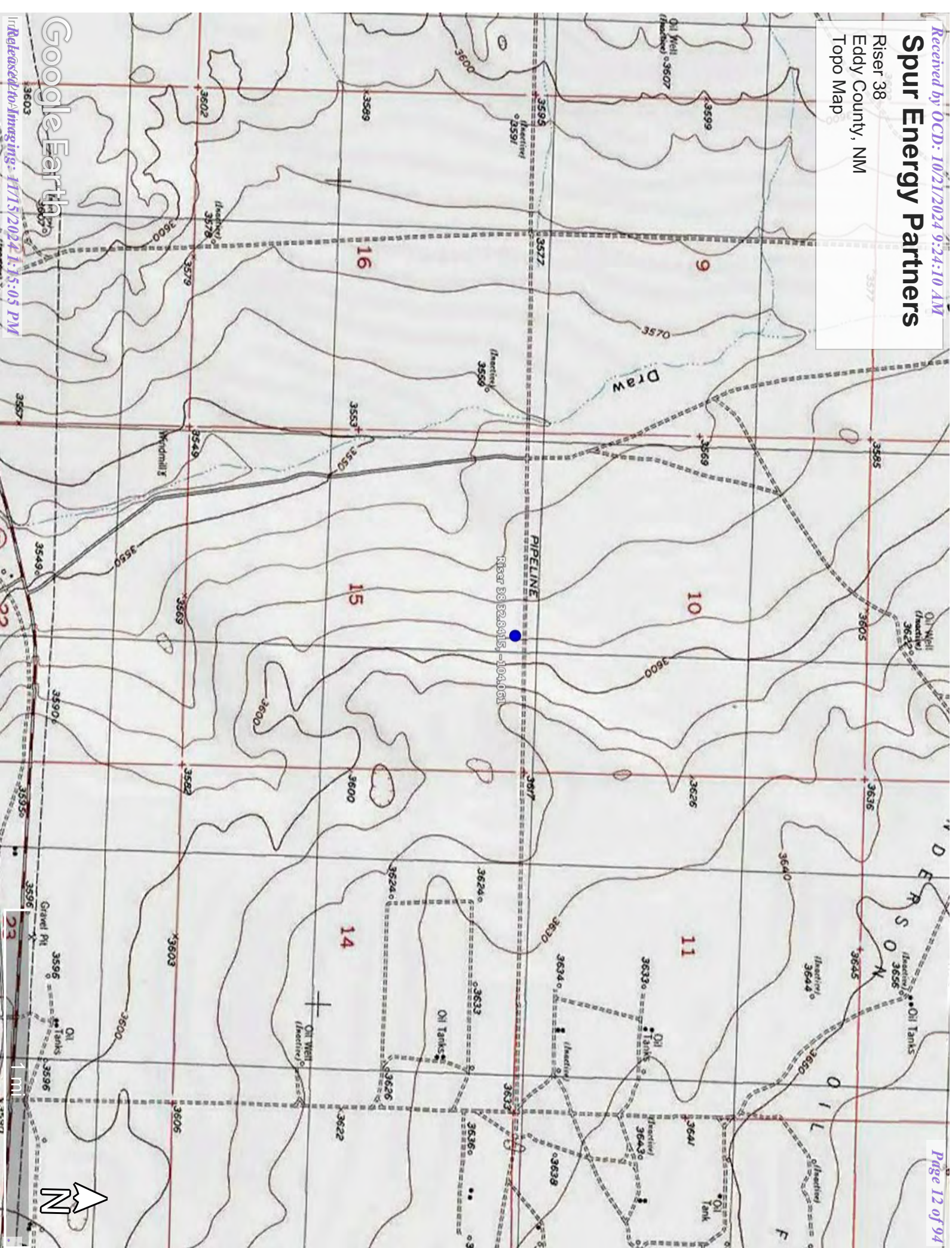
-  HS Line
-  Samples
-  SP-1 & SP-2 22' 7000 S/F
-  SP-3 18' 2500 S/F
-  SP-4 & SP-5 6' 4200 S/F
-  Spurs Water Line

Google Earth





Riser 38  
Eddy County, NM  
Topo Map





# Spur Energy Partners

Riser 38  
Eddy County, NM  
Karst Map

**Legend**

	High
	Low
	Medium

Riser 38 32.8415, -104.061



3000 ft

Google Earth

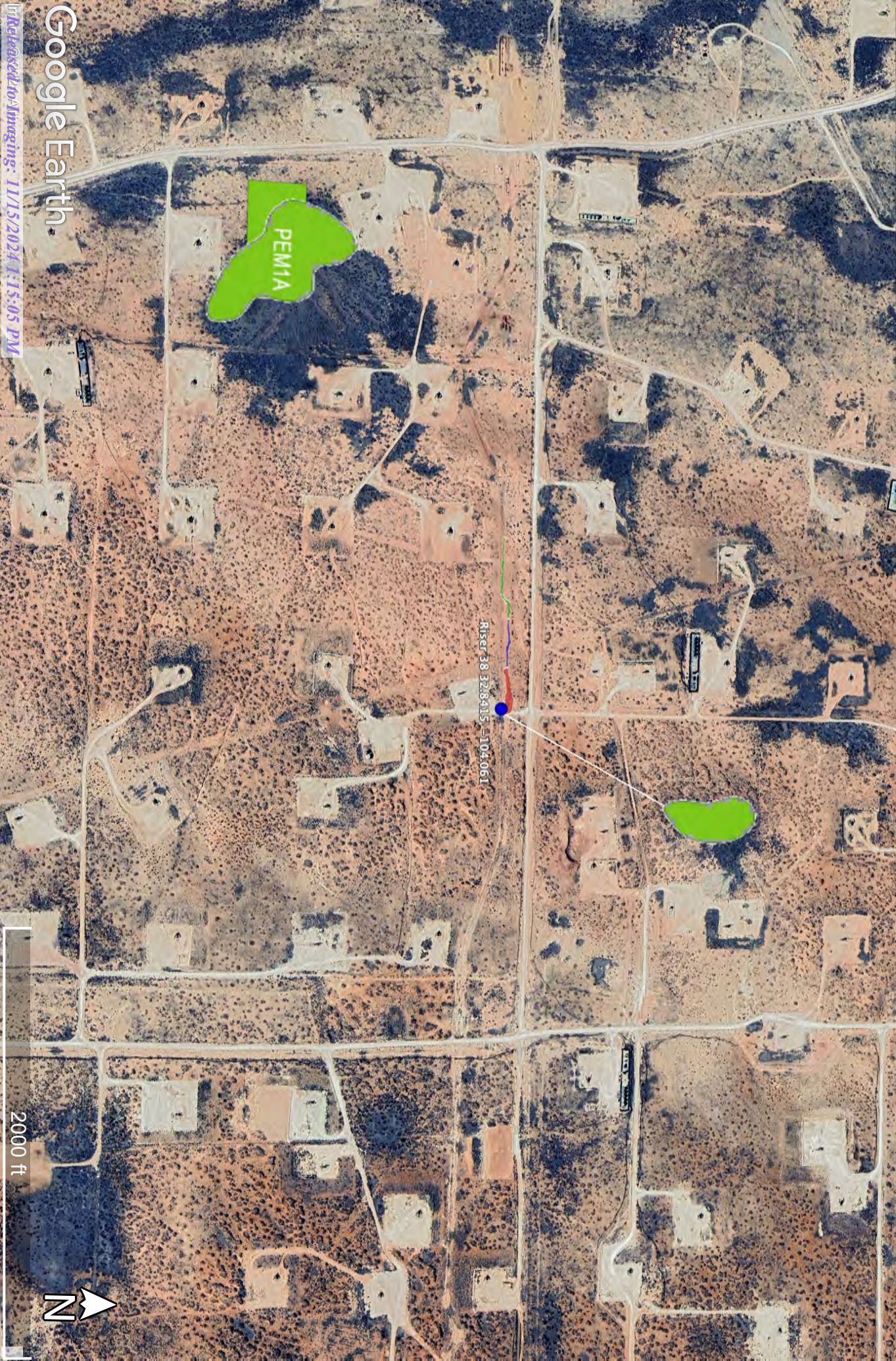


# Spur Energy Partners

Riser 38  
Eddy County, NM  
Wetlands Map

## Legend

- 0.18 Mile
- Riser 38 32.8415, -104.061

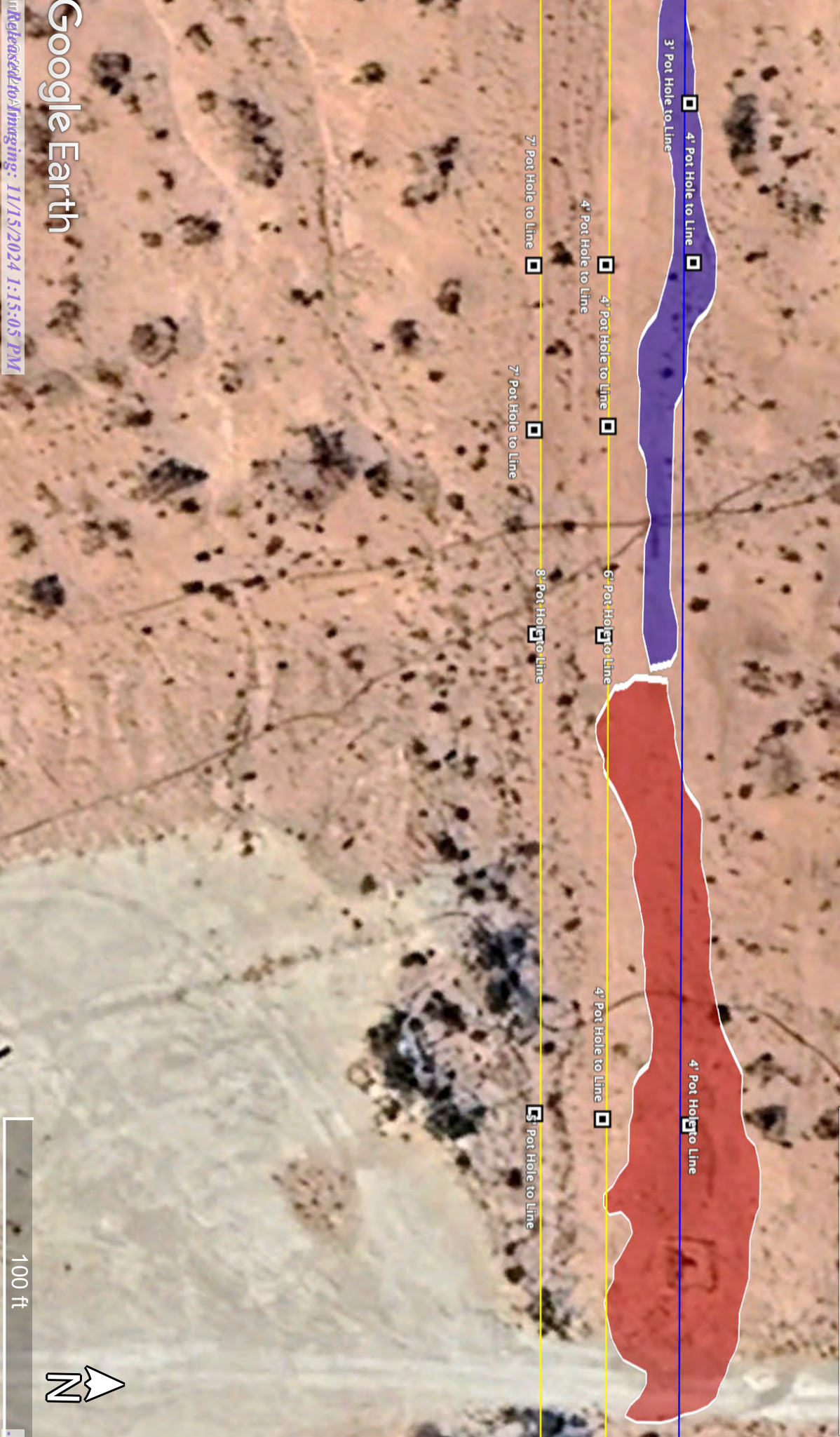


Google Earth

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Riser 38  
Eddy County, NM  
Line Map 1






# Spur Energy Partners


Riser 38  
Eddy County, NM  
Line Map 2

Legend


 HS Line

 Samples

 SP-1 & SP-2 22' 7000 S/F

 SP-3 18' 2500 S/F

 SP-4 & SP-5 6' 4200 S/F

 Spurs Water Line





## Appendix A:

### Referenced Water Data

New Mexico State of Engineers  
Office



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

April 10 2023

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: RA-13283 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, RA-13283 Pod-1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above

2023 APR 10 10:24:10 AM



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). RA-13283			
	WELL OWNER NAME(S) Spur Energy Partners LLC				PHONE (OPTIONAL) 832-930-8502			
	WELL OWNER MAILING ADDRESS 9644 Katy Freeway, Suite 500				CITY Houston	STATE TX	ZIP 77024	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 50	SECONDS 32.88 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 104	4	5.39 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SW SW Sec.10 T17S R29E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/29/2023	DRILLING ENDED 03/29/2023	DEPTH OF COMPLETED WELL (FT) 101	BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 04/03/2023		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		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)
	0 101		6.25"	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE

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

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	50	50	Gypsum consolidated, white	Y    ✓ N	
	50	60	10	Gypsum, consolidated, with fine-grained tan sand	Y    ✓ N	
	60	70	10	Sand, fine grained poorly graded, semi-consolidated, Tannish Brown	Y    ✓ N	
	70	75	5	Gypsum, with fine-grained sand, White to Tan	Y    ✓ N	
	75	85	10	Clay, Stiff, with silt, high dry strength, brown	Y    ✓ N	
	85	95	10	Gypsum, with fine-grained sand, White to Tan	Y    ✓ N	
	95	101	6	Clay, Stiff, with silt, high dry strength, Reddish brown	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):            0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Removed temporary well material from soil boring, backfilled with drill cutting from total depth to 10 feet below ground surface, then placed hydrated bentonite from 10 feet to ground surface. See attached plugging record.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt		

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

FOR USE INTERNAL USE

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

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 2 OF 2



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: RA-13283 POD-1

Well owner: Spur Energy Partners LLC

Phone No.: 832-930-8502

Mailing address: 9655 Katy Freeway Suit 500

City: Houston

State: Texas

Zip code: 77024

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Shane Eldridge, Cameron Pruitt

4) Date well plugging began: 04/03/2023 Date well plugging concluded: 04/03/2023

5) GPS Well Location: Latitude: 32 deg, 50 min, 37.83 sec  
Longitude: 104 deg, 17 min, 19.43 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),  
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 02/27/2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

DOE OIT APR 10 2023 10:24:7

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

04/10/2023

Date \_\_\_\_\_






# RA-13283-POD1-WR-20 Well Record and Log- packetforsign

Final Audit Report

2023-04-10

Created:	2023-04-10
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAAnr_fN5dTZpLTf2PMDw3WcaV4E4hR0mQK

## "RA-13283-POD1-WR-20 Well Record and Log-packetforsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2023-04-10 - 6:04:41 PM GMT- IP address: 64.17.82.146
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2023-04-10 - 6:05:14 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2023-04-10 - 6:45:11 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2023-04-10 - 6:46:58 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2023-04-10 - 6:46:58 PM GMT

Names and email addresses are entered into the Acrobat Sign service by Acrobat Sign users and are unverified unless otherwise noted.

USE OUR APR 10 2023 PM 2:47





Appendix B:  
Laboratory Results





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

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August 29, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RISER 38

Enclosed are the results of analyses for samples received by the laboratory on 08/23/23 14:45.

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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	RISER 38	Sampling Condition:	Cool & Intact
Project Number:	18608	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY COUNTY, NM		

**Sample ID: NH1 @ 0' (H234587-01)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03	
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39	
Total BTX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH1 @ 1' (H234587-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH2 @ 0' (H234587-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03	
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39	
Total BTEX	<0.300	0.300	08/26/2023	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	304	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH2 @ 1' (H234587-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEX	<0.300	0.300	08/26/2023	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	32.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH3 @ 0' (H234587-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH3 @ 1' (H234587-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH4 @ 0' (H234587-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	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	1090	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH4 @ 1' (H234587-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03	
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39	
Total BTEX	<0.300	0.300	08/26/2023	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	32.0	16.0	08/28/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH5 @ 0' (H234587-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NH5 @ 1' (H234587-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.98	99.0	2.00	3.34		
Toluene*	<0.050	0.050	08/26/2023	ND	2.33	117	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.40	120	2.00	1.91	QM-07	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	7.15	119	6.00	1.45		
Total BTEX	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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

**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH1 @ 0' (H234587-11)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/26/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	7.15	119	6.00	1.45	
Total BTEX	<0.300	0.300	08/26/2023	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	48.0	16.0	08/28/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH1 @ 1' (H234587-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.98	99.0	2.00	3.34		
Toluene*	<0.050	0.050	08/26/2023	ND	2.33	117	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.40	120	2.00	1.91		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	7.15	119	6.00	1.45		
Total BTEx	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH2 @ 0' (H234587-13)**

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	08/26/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/26/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	7.15	119	6.00	1.45	
Total BTX	<0.300	0.300	08/26/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH2 @ 1' (H234587-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.98	99.0	2.00	3.34		
Toluene*	<0.050	0.050	08/26/2023	ND	2.33	117	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.40	120	2.00	1.91		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	7.15	119	6.00	1.45		
Total BTEx	<0.300	0.300	08/26/2023	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	32.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH3 @ 0' (H234587-15)**

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	08/26/2023	ND	1.98	99.0	2.00	3.34		
Toluene*	<0.050	0.050	08/26/2023	ND	2.33	117	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.40	120	2.00	1.91		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	7.15	119	6.00	1.45		
Total BTX	<0.300	0.300	08/26/2023	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	64.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH3 @ 1' (H234587-16)**

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	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTX	<0.300	0.300	08/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH4 @ 0' (H234587-17)**

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	08/27/2023	ND	1.98	99.0	2.00	3.34		
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80		
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91		
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45		
Total BTEx	<0.300	0.300	08/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/28/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH4 @ 1' (H234587-18)**

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	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTX	<0.300	0.300	08/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH5 @ 0' (H234587-19)**

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	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTX	<0.300	0.300	08/27/2023	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	32.0	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SH5 @ 1' (H234587-20)**

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	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTX	<0.300	0.300	08/27/2023	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	16.0	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EH1 @ 0' (H234587-21)**

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	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTEx	<0.300	0.300	08/27/2023	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	<16.0	16.0	08/28/2023	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EH1 @ 1' (H234587-22)**

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	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTEx	<0.300	0.300	08/27/2023	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	<16.0	16.0	08/28/2023	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WH1 @ 0' (H234587-23)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTEX	<0.300	0.300	08/27/2023	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	48.0	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WH1 @ 1' (H234587-24)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTEX	<0.300	0.300	08/27/2023	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	32.0	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V1 @ 0' (H234587-25)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTEx	<0.300	0.300	08/27/2023	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	12800	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V1 @ 5' (H234587-26)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTEx	<0.300	0.300	08/27/2023	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	14400	16.0	08/28/2023	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V2 @ 0' (H234587-27)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	0.105	0.050	08/27/2023	ND	2.33	117	2.00	2.80	GC-NC1
Ethylbenzene*	0.215	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	0.481	0.150	08/27/2023	ND	7.15	119	6.00	1.45	GC-NC1
Total BTEX	0.801	0.300	08/27/2023	ND					GC-NC1

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	14400	16.0	08/28/2023	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.2	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	316	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	49.4	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V2 @ 5' (H234587-28)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	0.290	0.050	08/27/2023	ND	2.33	117	2.00	2.80	GC-NC1
Ethylbenzene*	1.23	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	3.02	0.150	08/27/2023	ND	7.15	119	6.00	1.45	GC-NC1
Total BTEx	4.53	0.300	08/27/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 150 % 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	15800	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.3	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	117	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	13.1	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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

**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V3 @ 0' (H234587-29)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	99.0	2.00	3.34	
Toluene*	<0.050	0.050	08/27/2023	ND	2.33	117	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.40	120	2.00	1.91	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	7.15	119	6.00	1.45	
Total BTEx	<0.300	0.300	08/27/2023	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	23600	16.0	08/28/2023	ND	416	104	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V3 @ 5' (H234587-30)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEx	<0.300	0.300	08/27/2023	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	18000	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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

**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V4 @ 0' (H234587-31)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	11400	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	18.2	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V4 @ 5' (H234587-32)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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**Analytical Results For:**

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

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V5 @ 0' (H234587-33)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	672	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	175	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/23/2023  
 Reported: 08/29/2023  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 08/23/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V5 @ 5' (H234587-34)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTX	<0.300	0.300	08/27/2023	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	13600	16.0	08/28/2023	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

## ANALYSIS REQUEST

[illegible]





## ORDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

March 18, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RISER 38

Enclosed are the results of analyses for samples received by the laboratory on 03/13/24 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, 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  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/13/2024  
 Reported: 03/18/2024  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 03/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 @ 14' (H241294-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3880	16.0	03/14/2024	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	03/14/2024	ND	210	105	200	2.71		
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	209	104	200	6.83		
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND						
Surrogate: 1-Chlorooctane	98.0 %	48.2-134								
Surrogate: 1-Chlorooctadecane	97.3 %	49.1-148								

**Sample ID: SP 2 @ 14' (H241294-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	03/14/2024	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	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	91.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	89.8 %	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  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/13/2024  
 Reported: 03/18/2024  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 03/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 3 @ 14' (H241294-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	03/14/2024	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	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	94.5 %	48.2-134							
Surrogate: 1-Chlorooctadecane	92.0 %	49.1-148							

**Sample ID: SP 4 @ 6' (H241294-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/14/2024	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	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	89.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	87.3 %	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  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/13/2024  
 Reported: 03/18/2024  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 03/12/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 5 @ 6' (H241294-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/14/2024	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	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	100 %	48.2-134							
Surrogate: 1-Chlorooctadecane	96.0 %	49.1-148							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6





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

May 17, 2024

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: RISER 38

Enclosed are the results of analyses for samples received by the laboratory on 05/13/24 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 05/13/2024  
 Reported: 05/17/2024  
 Project Name: RISER 38  
 Project Number: KH247023  
 Project Location: SPUR - EDDY CO

Sampling Date: 05/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 - 18' (H242593-02)**

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	05/14/2024	ND	1.90	95.0	2.00	10.5	
Toluene*	<0.050	0.050	05/14/2024	ND	1.89	94.4	2.00	8.94	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.5	2.00	8.57	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.47	91.2	6.00	8.62	
Total BTX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	05/15/2024	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	05/14/2024	ND	200	100	200	8.67	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	200	100	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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





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

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 05/13/2024  
 Reported: 05/17/2024  
 Project Name: RISER 38  
 Project Number: KH247023  
 Project Location: SPUR - EDDY CO

Sampling Date: 05/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 - 22' (H242593-04)**

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	05/15/2024	ND	1.95	97.6	2.00	1.20		
Toluene*	<0.050	0.050	05/15/2024	ND	2.06	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.42	107	6.00	1.17		
Total BTEx	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/16/2024	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	05/15/2024	ND	180	90.1	200	0.0200	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	172	86.1	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 05/13/2024  
 Reported: 05/17/2024  
 Project Name: RISER 38  
 Project Number: KH247023  
 Project Location: SPUR - EDDY CO

Sampling Date: 05/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - 18' (H242593-08)**

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	05/14/2024	ND	1.90	95.0	2.00	10.5	
Toluene*	<0.050	0.050	05/14/2024	ND	1.89	94.4	2.00	8.94	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.5	2.00	8.57	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.47	91.2	6.00	8.62	
Total BTX	<0.300	0.300	05/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/15/2024	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	05/14/2024	ND	200	100	200	8.67	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	200	100	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 05/13/2024  
 Reported: 05/17/2024  
 Project Name: RISER 38  
 Project Number: KH247023  
 Project Location: SPUR - EDDY CO

Sampling Date: 05/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - 22' (H242593-10)**

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	05/15/2024	ND	1.95	97.6	2.00	1.20		
Toluene*	<0.050	0.050	05/15/2024	ND	2.06	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	2.08	104	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.42	107	6.00	1.17		
Total BTEx	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/16/2024	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	05/15/2024	ND	180	90.1	200	0.0200	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	172	86.1	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 05/13/2024  
 Reported: 05/17/2024  
 Project Name: RISER 38  
 Project Number: KH247023  
 Project Location: SPUR - EDDY CO

Sampling Date: 05/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 - 18' (H242593-14)**

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	05/14/2024	ND	1.90	95.0	2.00	10.5		
Toluene*	<0.050	0.050	05/14/2024	ND	1.89	94.4	2.00	8.94		
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.5	2.00	8.57		
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.47	91.2	6.00	8.62		
Total BTEx	<0.300	0.300	05/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/15/2024	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	05/14/2024	ND	200	100	200	8.67	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	200	100	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: <b>Terracore</b>		P.O. #: <b>5801</b>		BILL TO		ANALYSIS REQUEST	
Project Manager: <b>Joseph Guenier / Travis Casey</b>		Company: <b>Spr Energy</b>		Attn: <b>Kathy Purvis</b>		Chlorides <b>4500</b> New Mexico	
Address: <b>Carlsbad</b>		Address: <b>Atesia</b>		BTEX <b>New Mexico</b>		TPH <b>New Mexico</b>	
Phone #: <b>760-434-7023</b>		City: <b>Atesia</b>		State: <b>NM</b> Zip: <b>88419</b>		Hold Removed <b>2 Day</b>	
Project #: <b>River 38</b>		State: <b>NM</b> Zip: <b>88419</b>		Phone #: <b>575-444-8619</b>		TAT <b>5/15</b>	
Project Location: <b>River 38</b>		Fax #: <b>575-444-8619</b>		Fax #: <b>575-444-8619</b>			
Sampler Name: <b>Aaron Adams / Becky Sue Miller</b>		FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D. <b>4343593</b>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
1 <b>SP1 - 16'</b>		6		GROUNDWATER		WASTEWATER	
2 <b>SP1 - 18'</b>		6		SOIL		OIL	
3 <b>SP1 - 20'</b>		6		SLUDGE		OTHER :	
4 <b>SP1 - 22'</b>		6		ACID/BASE:		ICE / COOL	
5 <b>SP1 - 24'</b>		6		OTHER :		DATE	
6 <b>SP1 - 26'</b>		6		5-3-24		TIME	
7 <b>SP2 - 16'</b>		6		10:56		X	
8 <b>SP2 - 18'</b>		6		10:57		X	
9 <b>SP2 - 20'</b>		6		10:58		X	
10 <b>SP2 - 22'</b>		6		10:59		X	
		6		11:00		X	
		6		11:01		X	
		6		11:18		X	
		6		11:19		X	
		6		11:20		X	
		6		11:20		X	

PLEASE NOTE: Liability and safety are the responsibility of the client. The client is responsible for the safety of the personnel and equipment. The client is responsible for the safety of the personnel and equipment. The client is responsible for the safety of the personnel and equipment.

Relinquished By: **Joe Adams**

Relinquished By: **Joe Adams**

Delivered By: (Circle One) **Observed Temp. °C** **30**

Sampler - UPS - Bus - Other: **Corrected Temp. °C**

Sample Condition: **Intact**

Checked By: **Joe Adams**

Turnaround Time: **8-12-23**

Thermometer ID #140

Correction Factor 0°C

REMARKS: **River 38 release, release date 8-12-23**

Major-Minor 7010-7410

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

All Results are emailed. Please provide Email address:

Standard: **Standard**

Resin: **Resin**

Bacteria (only) Sample Condition: **Intact**

Cool Intact: **Intact**

Observed Temp. °C: **30**

Corrected Temp. °C: **30**





page 2 of 2

† 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

May 24, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RISER 38

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	05/23/2024	Sampling Date:	05/23/2024
Reported:	05/24/2024	Sampling Type:	Soil
Project Name:	RISER 38	Sampling Condition:	Cool & Intact
Project Number:	18608	Sample Received By:	Alyssa Parras
Project Location:	SPUR - RURAL EDDY COUNTY, NM		

**Sample ID: NH4 @ 0' (H242885-01)**

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	05/23/2024	ND	1.89	94.7	2.00	4.14	
Toluene*	<0.050	0.050	05/23/2024	ND	1.91	95.3	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.96	98.2	2.00	2.12	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.69	94.8	6.00	1.96	
Total BTX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/24/2024	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	05/23/2024	ND	186	93.1	200	2.21	
DRO >C10-C28*	<10.0	10.0	05/23/2024	ND	181	90.5	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 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  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/23/2024  
 Reported: 05/24/2024  
 Project Name: RISER 38  
 Project Number: 18608  
 Project Location: SPUR - RURAL EDDY COUNTY, NM

Sampling Date: 05/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: NH4 @ 1' (H242885-02)**

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	05/23/2024	ND	1.89	94.7	2.00	4.14	
Toluene*	<0.050	0.050	05/23/2024	ND	1.91	95.3	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.96	98.2	2.00	2.12	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.69	94.8	6.00	1.96	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/24/2024	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	05/23/2024	ND	186	93.1	200	2.21	
DRO >C10-C28*	<10.0	10.0	05/23/2024	ND	181	90.5	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

## ANALYSIS REQUEST

**RUSH SAMPLES - 24 HOUR**

Please email results and copy of CoC to [pm@etechenv.com](mailto:pm@etechenv.com).

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





Appendix C:

HF Sinclair Approval Letter



Kathy Purvis  
EHS Coordinator  
Spur Energy Partners

1 October 2024

RE: Proposed Workplan for Riser 38 Release

After review of the proposed workplan for the Spur Energy Partners Riser 38 release, HFSinclair Midstream (HFSM) has the following conditions and requests in regard to the workplan:

1. The contractor performing the remediation should be familiar with digging around pipelines, pipeline protection zones, and possess the operator qualifications (OQ) as related to excavation and backfill. This includes ensuring that lines are properly supported during duration of the work being completed. All work must be under the complete oversight of an HFSM operator qualified technician who must be on-site during all excavation around HFSM pipelines.
2. The pipeline should be completely exposed to allow for the HFSM personnel to complete a pipeline S123 report. Based upon these findings repairs may need to be made before backfill can be completed.
3. Backfill material utilized around the pipeline must be:
  - a. Be free of rocks, trash, and debris
  - b. Have low chloride content, <10ppm
  - c. Be well-graded and compactable to provide adequate support and minimize the movement of the pipeline
4. The liner should be placed 6' under the line so that if HFSM must conduct future excavation activities around our pipelines we do not puncture the liner that has been placed by Spur.
5. HFSM will not agree to any workplan till the Bureau of Land Management (BLM) and the New Mexico State Land Office (NMSLO) has agreed to workplan suggested since both parties have ownership of the impacted areas.

If you have any questions I can be reached at (214) 970-8902.

Thank you,

Jason Leik  
Director Remediation  
HF Sinclair Remediation Program

Holly Energy Partners – Operating, L.P.  
2828 N. Harwood, Suite 1300, Dallas, Texas 75201  
Tel: 214-871-3555  
hollyenergy.com

Holly Energy Partners – Operating, L.P.  
hollyenergy.com

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 394042

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 394042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2322647988
Incident Name	NAPP2322647988 RISER 38 RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	RISER 38 RELEASE
Date Release Discovered	08/12/2023
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 24 BBL   Recovered: 5 BBL   Lost: 19 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A PIN HOLE DEVELOPED IN THE RISER LEG RELEASING PRODUCED WATER INTO THE PASTURE



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
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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, Page 2

Action 394042

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 394042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A

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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 10/21/2024
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Sante Fe Main Office  
Phone: (505) 476-3441

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QUESTIONS, Page 3

Action 394042

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 394042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	23600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	847
GRO+DRO (EPA SW-846 Method 8015M)	847
BTEX (EPA SW-846 Method 8021B or 8260B)	4.5
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	01/06/2025
On what date will (or did) the final sampling or liner inspection occur	01/31/2025
On what date will (or was) the remediation complete(d)	01/31/2025
What is the estimated surface area (in square feet) that will be reclaimed	13700
What is the estimated volume (in cubic yards) that will be reclaimed	5552
What is the estimated surface area (in square feet) that will be remediated	13700
What is the estimated volume (in cubic yards) that will be remediated	5552

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 394042

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 394042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 10/21/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 394042

QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6

Action 394042

QUESTIONS (continued)

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	Action Number: 394042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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

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CONDITIONS

Action 394042

**CONDITIONS**

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**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. A Variance Request was approved on October 21st, 2024. "The following variance is approved. Areas SP1, SP2, and SP3 will need to be excavated to 6 feet below where the pipelines have been potholed and found. A clay/bentonite liner will need to be installed. The areas of SP4 and SP5 will be fully excavated to a total depth of 13 feet BGS. A confirmation soil sampling event in accordance with 19.15.19.12 NMAC will be conducted, giving the OCD a 48-hour notification. If for some reason the depth of the excavation cannot be reached or safety hazards arise, a formal letter from the pipeline company will still need to be included in the remediation plan for future reference and the incident will remain open. The letter would need to reference the safety issues and why it is not safe to continue with the excavation process." Please follow the approved Variance Request.	11/15/2024
rhamlet	All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area will need confirmation samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.	11/15/2024