

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

Length(Ft)	Width(Ft)	Depth(In)
50.000	25.000	3.000
Cubic Feet Impacted		312.500
Barrels		55.65
Soil Type		Sand
Bbls Assuming 100% Saturation		11.13
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		11.20000

**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)	50
Width (ft)	25
Depth (in)	3.000









February 28, 2024

NMOCD District 2  
Mike Bratcher  
Artesia, NM 88210

Bureau of Land Management  
Crisha Morgan  
Carlsbad Field Office

**Re: Site Assessment, Remediation, and Closure Report**  
**State S-19 #019**  
**API No. 30-015-32059**  
**GPS: Latitude 32.81921 Longitude -104.11967**  
**U/L "L", Sec. 19, T17S, R29E**  
**Eddy County, NM**  
**NMOCD Ref. No. nAPP2326129420**

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and conduct remediation activities for the release site known as the State S-19 #019 (State S). Details of the release are summarized below:

Release Details			
Type of Release:	Crude Oil/Produced Water	Volume of Release:	11 bbls
		Volume Recovered:	11 bbls
Source of Release:	Poly Line	Date of Release:	9/17/23
Was Immediate Notice Given?	No	If, Yes, to Whom?	
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	State	Mineral Owner:	
Stuffing box packing failed.			

Topographical and Aerial Maps are provided in Figures #2 and #4.

## REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of 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:

Site Characteristics	
Approximate Depth to Groundwater	>100'
Within 330 ft. of any continuously flowing or significant watercourse?	NO
Within 200 ft. of any lakebed, sinkhole, or playa lake?	NO
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	NO
Within 500 ft. of a spring, private, or domestic freshwater well?	NO
Within 1000 ft. of any fresh water well?	NO
Within the incorporated municipal boundaries or within a municipal well field?	NO
Within 300 ft. of a wetland?	NO
Within the area overlying a subsurface mine?	NO
Within an unstable area such as Karst?	NO
Within a 100-year floodplain?	NO

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within ½ Mile of the Release Site. The data initially found on the State Engineers website showed there was NO water data within a ½ mile radius. With this, we contracted Atkins Engineering Associates INC. to drill a water well to show the depth of groundwater. We found that the depth of groundwater is greater than 100'.

Depth to groundwater information is provided in Appendix A.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of Eolian and piedmont deposits (Holocene to middle Pleistocene)- Interlayered eolian sands and piedmont- slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (Qep). The soil in this area is made up of Simona gravelly fine sandy loam, with 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 no potential for high karst geology to be present around the State S.

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #3.

TABLE I CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
	Constituent	Method	Limit
>100 Feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

## INITIAL SITE ASSESSMENT

On December 18, 2022, Paragon conducted an initial site assessment. During the initial site assessment, we sampled inside and outside the battery inside the footprint from the incident. The results of this sampling event are detailed in the following data table.

12-19-23 Sample Results

NMOC Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 12/19/23		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 1,000 mg/kg	Closure Criteria 20,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRD	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	204	23.8	227.8	7520
S-1	3'	ND	ND	ND	ND	ND	ND	880
S-2	0-6"	ND	ND	ND	2930	383	3313	13900
S-2	3'	ND	ND	ND	ND	ND	ND	240
S-3	0-6"	ND	ND	ND	ND	ND	ND	9460
S-3	3'	ND	ND	ND	ND	ND	ND	448
S-4	0-6"	ND	ND	ND	ND	ND	ND	7280
S-4	3'	ND	ND	ND	ND	ND	ND	160
S-5	0-6"	ND	ND	ND	ND	ND	ND	3280
S-5	2'	ND	ND	ND	ND	ND	ND	176
HZ 1	SURFACE	ND	ND	ND	ND	ND	ND	32
HZ 2	SURFACE	ND	ND	ND	ND	ND	ND	128
HZ 3	SURFACE	ND	ND	ND	ND	ND	ND	48
HZ 4	SURFACE	ND	ND	ND	ND	ND	ND	256
HZ 5	SURFACE	ND	ND	ND	ND	ND	ND	32
HZ 6	SURFACE	ND	ND	ND	ND	ND	ND	32

ND- Analyte Not Detected

Laboratory Report can be found in Appendix D

A Site Map is provided in Figure #1.

## REMEDIATION ACTIVITIES

On February 6, 2024, Paragon mobilized equipment and personnel to the State S to begin remediation activities. The following tasks were performed in accordance with Rule 19.15.29.12.

- In the area of S-2, we excavated to a depth of 3 feet BGS. Approximately 50 cubic yards were removed and disposed of at Lea Land. Backfill material was also obtained at Lea Land.

Once this area was excavated, approximately 400 surface s/f, to the specified depths, we advised the OCD through the portal that we would be obtaining confirmation samples. Bottom samples were obtained, representing no more than 200 s/f. Composite Sidewall

samples were obtained, with each sample representing no more than 50 s/f. The results of this sampling event are in the following data table:

## 2/27/24 Laboratory Results

NMOC Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 2/20/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 20,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	3'	ND	ND	ND	ND	ND	ND	464
S-2	3'	ND	ND	ND	ND	ND	ND	256
NSW	3'	ND	ND	ND	ND	ND	ND	320
ESW	3'	ND	ND	ND	ND	ND	ND	464
SSW	3'	ND	ND	ND	ND	ND	ND	544
WSW-3	3'	ND	ND	ND	ND	ND	ND	272

ND- Analyte Not Detected

A confirmation map showing sampling locations is attached in Figure 5.



### CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2326129420, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

If you have any questions or need additional information, please contact Chris Jones by phone at (575)964-7814 or email [chris@paragonenvironmental.net](mailto:chris@paragonenvironmental.net)

Respectfully,



Chris Jones  
Environmental Professional  
Paragon Environmental, LLC



### Attachments

#### **Figures:**

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Map
- 6- Groundwater Map

#### **Appendices:**

- Appendix A – Referenced Water Surveys & RA-13283 POD1
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – Photographic Documentation & OCD Notification
- Appendix D – Laboratory Reports



Figures:




- 1- Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Map
- 6- Groundwater Map



# Spur Energy Partners

State S-19 #0019  
API# 30-015-32059  
Eddy County, NM  
Site Map

## Legend

-  3' Excavation 400 S/F Area
-  Sample
-  Spill Area

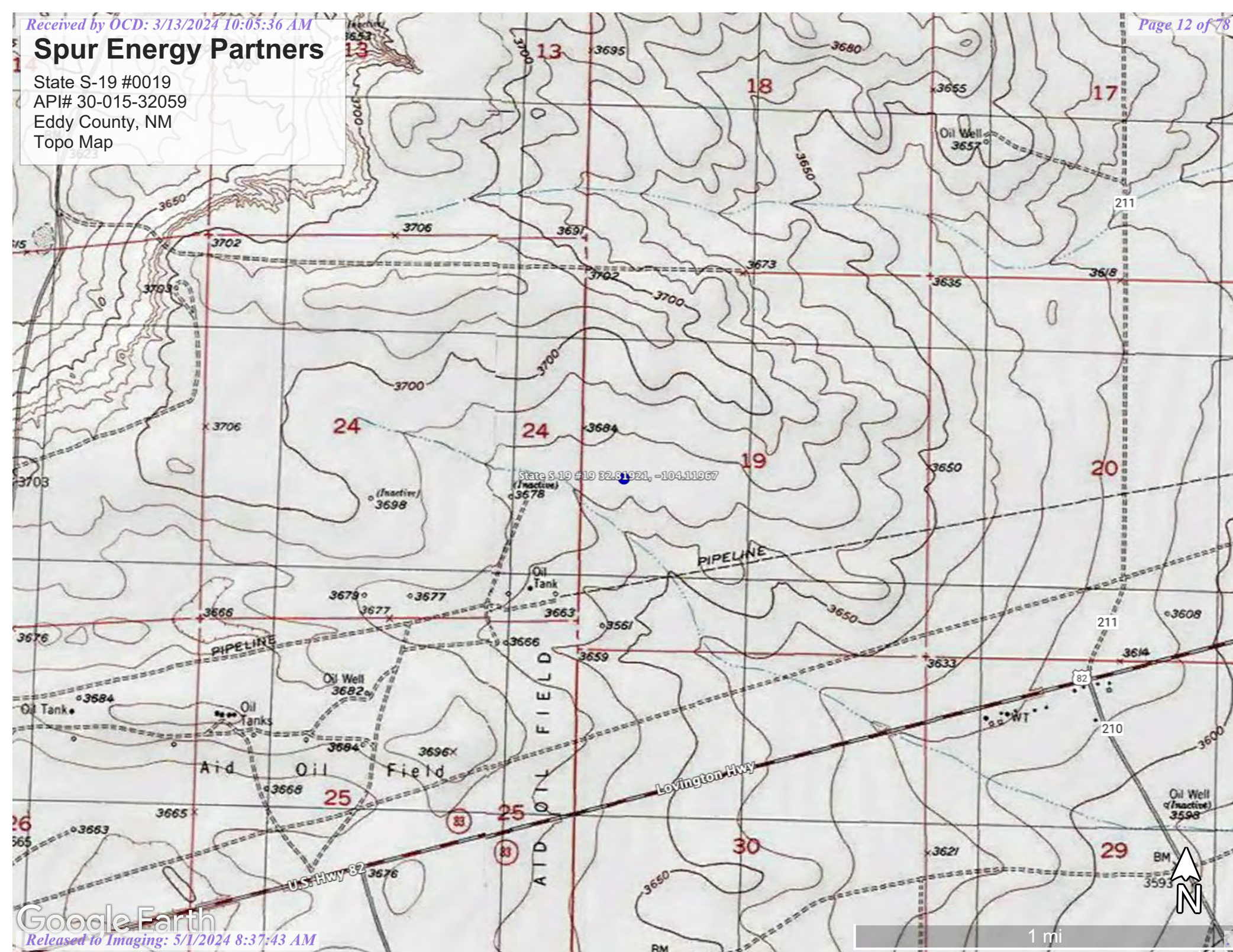
State S 19 #19 32.81921, -104.11967





# Spur Energy Partners

State S-19 #0019  
API# 30-015-32059  
Eddy County, NM  
Topo Map





# Spur Energy Partners

State S-19 #0019  
API# 30-015-32059  
Eddy County, NM  
Karst Map

## Legend

- High
- Low
- Medium

State S 19 #19 32.81921, -104.11967

Lovington Hwy

U.S. Hwy 82

211

211

82

210



1 mi

Google Earth



# Spur Energy Partners

State S-19 #0019  
API# 30-015-32059  
Eddy County, NM  
Aerial Map

State S 19 #19 32.81921, -104.11967

Lovington Hwy

U.S. Hwy 82

211

211

82

210

Google Earth





1 mi



# Spur Energy Partners

State S-19 #019  
API# 30-015-32059  
Eddy County, NM  
Confirmaiton Sample Map

## Legend

-  3' Excavation 400 S/F Area
-  Samples

State S 19 #19 32.81921, -104.11967



50 ft



# Spur Energy Partners

State S-19 #0019  
API# 30-015-32059  
Eddy County, NM  
Groundwater Map

## Legend

- 0.39 Mile
- RA-13395 POD 1 (TW-1)

State S 19 #19 32.81921, -104.11967

RA-13395 POD 1 (TW-1)



2000 ft





Appendix A  
Referenced Water Data:

New Mexico State of Engineers Office



# New Mexico Office of the State Engineer


## Water Column/Average Depth to Water

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

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

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

(In feet)

POD Number	Code	POD										Water			
		Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y		Distance	DepthWell	DepthWater
<a href="#">RA 13395 POD1</a>	RA	ED	3	4	3	19	17S	29E	582669	3630991		665			

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 582417.872

Northing (Y): 3631608.23

Radius: 1500

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

3/5/24 8:26 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER



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

November 17, 2023

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

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

Re: Well Record RA-13395 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-13395 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".

Lucas Middleton

Enclosures: as noted above

FILED OCT 17 2023 PM 10:40



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). RA-13395			
	WELL OWNER NAME(S) Energy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 919 Milam St Ste 2475				CITY Houston	STATE TX	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 48	49.73	N		
		LONGITUDE	104	7	0.87	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Sec. 19 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 11/8/2023	DRILLING ENDED 11/8/2023	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±102	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 11/16/2023	
	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)
	0 102		±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	4	4	Sand, fine-grained, poorly graded, dark brown	Y    ✓ N	
	4	50	46	Sand, fine-grained, poorly graded, tan	Y    ✓ N	
	50	102	52	Sand, fine-grained, poorly graded, with sub-rounded gravel 0.25" 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	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					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: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. <div style="text-align: right; color: blue;">OCD OCT NOV 17 2023 11:40</div>	
	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 SIGNED NAME	Jackie D. Atkins DATE

FOR OSE 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-13395 POD-1

Well owner: Spur Energy Partners LLC

Phone No.: 575-441-8619

Mailing address: 919 Milam St Ste 2475

City: Houston State: TX Zip code: 77002

## 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: 04/30/25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Lucas Middleton, Lupe Leyba
- 4) Date well plugging began: 11/16/2023 Date well plugging concluded: 11/16/2023
- 5) GPS Well Location: Latitude: 32 deg, 48 min, 49.73 sec  
Longitude: 104 deg, 7 min, 0.87 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 102 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: 11/3/2023
- 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):

PLUGGED NOV 17 2023 #10140



- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-102'	Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

0000 OCT NOV 17 2023 AM 10:40

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

### III. SIGNATURE:

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*

Signature of Well Driller

11/17/2023

Date






# 1115RA-13395-Well Record-forsign1

Final Audit Report

2023-11-17

Created:	2023-11-17
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAlzcynkhe70o6FEdlKmo6jX4ZtPrcG6qC

## "1115RA-13395-Well Record-forsign1" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2023-11-17 - 5:00:36 PM GMT- IP address: 24.40.85.191
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2023-11-17 - 5:01:23 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2023-11-17 - 5:13:08 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2023-11-17 - 5:14:57 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2023-11-17 - 5:14:57 PM GMT

USE BY NOV 17 2023 10:40





Appendix B  
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Simona gravelly fine sandy loam, 0 to 3 percent slopes---Eddy Area,  
New Mexico

---

## Eddy Area, New Mexico

### SG—Simona gravelly fine sandy loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5w

*Elevation:* 2,750 to 5,000 feet

*Mean annual precipitation:* 8 to 16 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 230 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Simona and similar soils:* 95 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Simona

##### Setting

*Landform:* Plains, alluvial fans

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 19 inches:* gravelly fine sandy loam

*H2 - 19 to 23 inches:* indurated

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 7 to 20 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low  
to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0  
mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Very low (about 2.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* D

*Ecological site:* R070BD002NM - Shallow Sandy

Map Unit Description: Simona gravelly fine sandy loam, 0 to 3 percent slopes---Eddy Area,  
New Mexico

---

*Hydric soil rating:* No

#### **Minor Components**

##### **Simona**

*Percent of map unit:* 4 percent

*Ecological site:* R070BD002NM - Shallow Sandy

*Hydric soil rating:* No

##### **Playa**

*Percent of map unit:* 1 percent

*Landform:* Playas

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Concave, convex

*Across-slope shape:* Concave, linear

*Ecological site:* R070BC017NM - Bottomland

*Hydric soil rating:* Yes

## **Data Source Information**

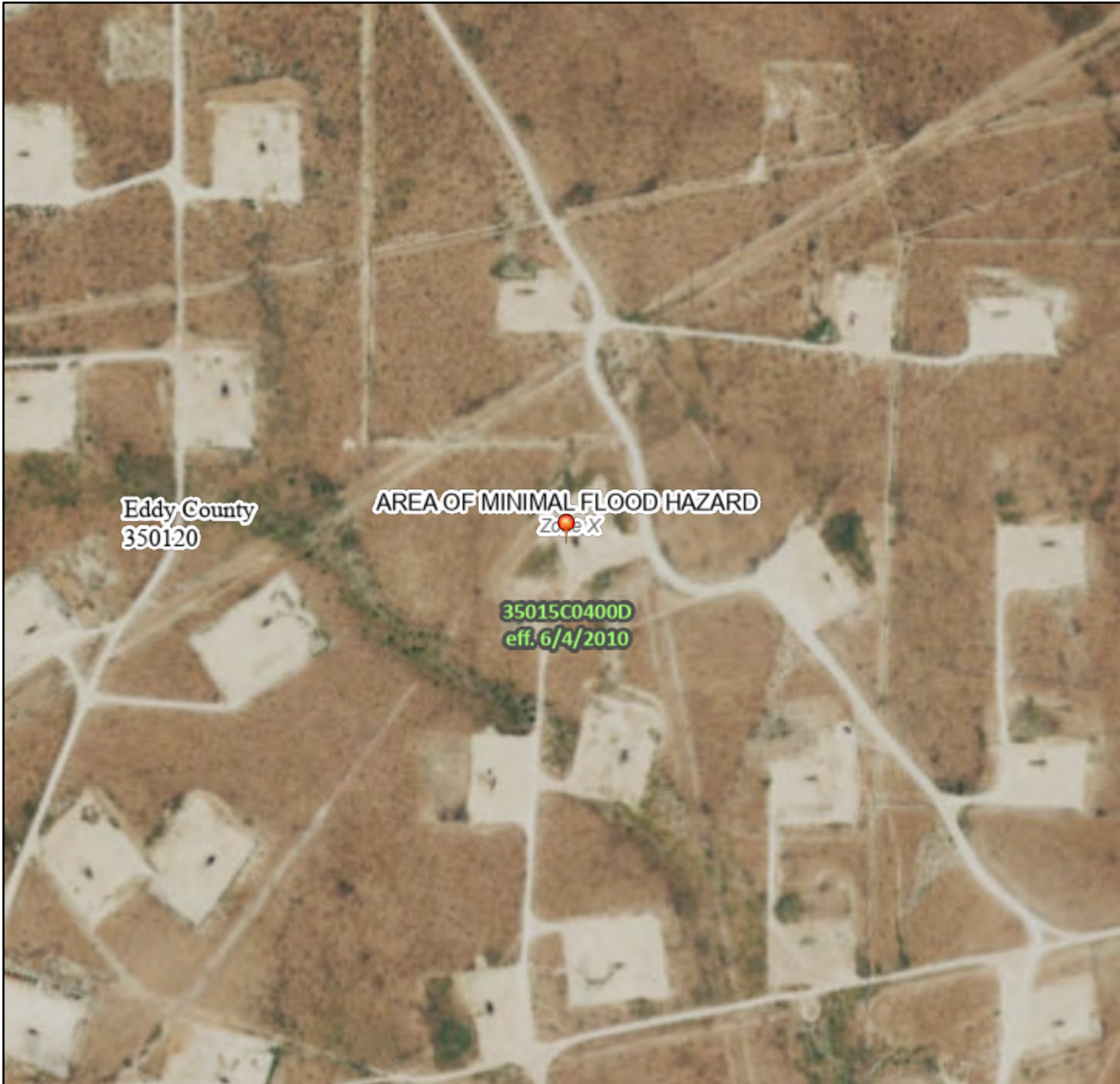
Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

# National Flood Hazard Layer FIRMette



104°7'30"W 32°49'24"N



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

1:6,000

104°6'52"W 32°48'54"N

## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Digital Data Available
MAP PANELS		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/5/2024 at 10:29 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Appendix C:

Photographic Documentation

OCD Notification





**Photographic Documentation**  
**Incident Pics**







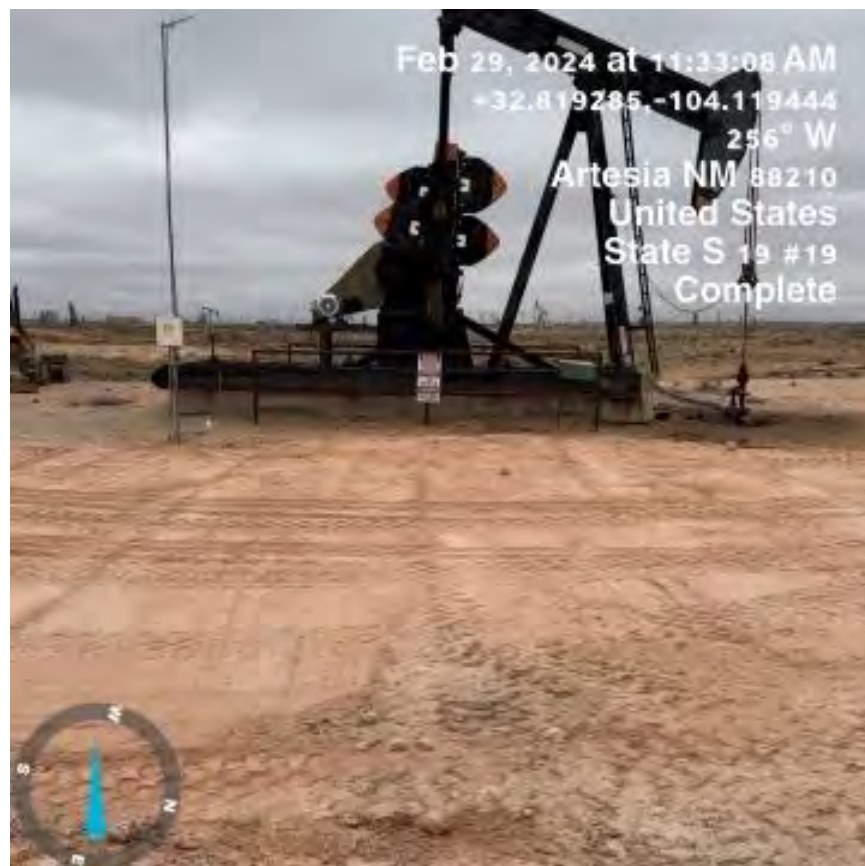
During







Completed









Mail




Chat



Meet

 Compose

 **Inbox** 533

 Starred

 Snoozed

 Sent

 **Drafts** 29

 More

**Labels** +

 [imap]/Drafts



1 of 1,432



# The Oil Conservation Division (OCD) has accepted the application, Application ID: 315705

**External** **Inbox** x

Starred



**OCDOnline@state.nm.us**

to me

2:25 PM (0 minutes ago)



To whom it may concern (c/o Angel Pena for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2326129420.

The sampling event is expected to take place:

**When:** 02/21/2024 @ 14:30

**Where:** L-19-17S-29E 0 FNL 0 FEL (32.81921,-104.11967)

**Additional Information:** Jeremy Maner

575-602-4231

**Additional Instructions:** 32.81369,-104.11737

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1)(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1)(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

1220 South St. Francis Drive

Santa Fe, NM 87505

 Reply

 Forward



Appendix D:  
Laboratory Results



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

December 22, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: STATE S 19 #19

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 16:50.

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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received:	12/19/2023	Sampling Date:	12/19/2023
Reported:	12/22/2023	Sampling Type:	Soil
Project Name:	STATE S 19 #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY		

**Sample ID: S - 1 0-6" (H236764-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.21	111	2.00	1.45	
Toluene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	1.74	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.22	111	2.00	1.71	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.60	110	6.00	0.972	
Total BTX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	7520	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	204	10.0	12/20/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	23.8	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 3' (H236764-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.21	111	2.00	1.45		
Toluene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	1.74		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.22	111	2.00	1.71		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.60	110	6.00	0.972		
Total BTEx	<0.300	0.300	12/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2 0-6" (H236764-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2023	ND	2.21	111	2.00	1.45	
Toluene*	<0.050	0.050	12/21/2023	ND	2.23	112	2.00	1.74	
Ethylbenzene*	<0.050	0.050	12/21/2023	ND	2.22	111	2.00	1.71	
Total Xylenes*	<0.150	0.150	12/21/2023	ND	6.60	110	6.00	0.972	
Total BTEx	<0.300	0.300	12/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	13900	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	2930	10.0	12/21/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	383	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2 3' (H236764-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.21	111	2.00	1.45	
Toluene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	1.74	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.22	111	2.00	1.71	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.60	110	6.00	0.972	
Total BTEx	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 0-6" (H236764-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.21	111	2.00	1.45		
Toluene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	1.74		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.22	111	2.00	1.71		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.60	110	6.00	0.972		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	9460	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 3' (H236764-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTEx	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	448	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 0-6" (H236764-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	7280	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 3' (H236764-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35		
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11		
Total BTEx	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	160	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 5 0-6" (H236764-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35		
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11		
Total BTEX	<0.300	0.300	12/20/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 5 2' (H236764-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTEx	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/21/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/21/2023	ND					

Surrogate: 1-Chlorooctane 59.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.6 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: HZ - 1 SURFACE (H236764-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/21/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	194	96.8	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	188	94.1	200	0.0579	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: HZ - 2 SURFACE (H236764-12)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.1	200	0.161	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	180	89.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: HZ - 3 SURFACE (H236764-13)**

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	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.1	200	0.161	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	180	89.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: HZ - 4 SURFACE (H236764-14)**

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	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.1	200	0.161	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	180	89.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: HZ - 5 SURFACE (H236764-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.1	200	0.161	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	180	89.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 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:**

PARAGON ENVIROMENTAL  
CHRIS JONES  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240  
Fax To:

Received: 12/19/2023  
Reported: 12/22/2023  
Project Name: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 12/19/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: HZ - 6 SURFACE (H236764-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.09	104	2.00	5.35	
Toluene*	<0.050	0.050	12/20/2023	ND	2.20	110	2.00	6.22	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.23	112	2.00	5.38	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.73	112	6.00	5.11	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/21/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.1	200	0.161	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	180	89.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager







### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Paragon Environmental</b> Project Manager: <b>Chris Jones</b> Address: <b>1601 N. Turner St., Ste 500</b> City: <b>Hobbs</b> State: <b>NM</b> zip: <b>88240</b> Phone #: <b>575-964-7814</b> Fax #: _____ Project #: _____ Project Owner: <b>Sput</b> Project Name: <b>State S 14 #14</b> State: _____ Zip: _____ Project Location: <b>Early</b> Phone #: _____ Sample Name: <b>Severn, Manor</b> Fax #: _____ FOR LAB USE ONLY										<b>BILL TO</b> P.O. #: _____ Company: <b>Sput</b> Attn: <b>Erica Wadley</b> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____										<b>ANALYSIS REQUEST</b>									
Lab I.D. <b>Sample I.D.</b> H236164 11 H2.1 Surface 12 H2.2 Surface 13 H2.3 Surface 14 H2.4 Surface 15 H2.5 Surface 16 H2.6 Surface										(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE 12/19 TIME										MATRIX PRESERV SAMPLING TPH Ext. BTEX Chlorides									
Relinquished By: <b>12/15</b> Relinquished By: <b>1650</b> Date: <b>12/15</b> Time: <b>1650</b> Received By: <b>Shirley Delaney</b> Date: _____ Time: _____										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <b>Email results to Chris Jones.</b>																			
Delivered By: (Circle One) <b>UPS</b> Sampler - UPS - Bus - Other: <b>0.66</b> Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <b>AB</b>																													

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

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March 04, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: STATE S 19 #19

Enclosed are the results of analyses for samples received by the laboratory on 02/27/24 8:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:Reported:  
04-Mar-24 16:45

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 3'	H240938-01	Soil	20-Feb-24 00:00	27-Feb-24 08:33
S - 2 3'	H240938-02	Soil	20-Feb-24 00:00	27-Feb-24 08:33
NSW 3'	H240938-04	Soil	20-Feb-24 00:00	27-Feb-24 08:33
ESW 3'	H240938-05	Soil	20-Feb-24 00:00	27-Feb-24 08:33
SSW 3'	H240938-06	Soil	20-Feb-24 00:00	27-Feb-24 08:33
WSW 3'	H240938-07	Soil	20-Feb-24 00:00	27-Feb-24 08:33

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

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

**S - 1 3'**  
**H240938-01 (Soil)**

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

<b>Chloride</b>	<b>464</b>		16.0	mg/kg	4	4022736	AC	27-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4022705	JH	27-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		112 %		71.5-134	4022705	JH	27-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	

Surrogate: 1-Chlorooctane		102 %		48.2-134	4022713	ms	27-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane		112 %		49.1-148	4022713	ms	27-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

**S - 2 3'****H240938-02 (Soil)**

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

<b>Chloride</b>	<b>256</b>		16.0	mg/kg	4	4022736	AC	27-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4022705	JH	27-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %		71.5-134	4022705	JH	27-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	

Surrogate: 1-Chlorooctane			81.9 %		48.2-134	4022713	ms	27-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			88.8 %		49.1-148	4022713	ms	27-Feb-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

**NSW 3'**  
**H240938-04 (Soil)**

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

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	4022736	AC	27-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4022705	JH	27-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	4022705	JH	27-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.2 %		48.2-134	4022713	ms	27-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.8 %		49.1-148	4022713	ms	27-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

**ESW 3'**  
**H240938-05 (Soil)**

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

Chloride	464		16.0	mg/kg	4	4022736	AC	27-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4022705	JH	27-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4022705	JH	27-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	

Surrogate: 1-Chlorooctane			89.4 %		48.2-134	4022713	ms	27-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			96.7 %		49.1-148	4022713	ms	27-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

**SSW 3'**  
**H240938-06 (Soil)**

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

<b>Chloride</b>	<b>544</b>		16.0	mg/kg	4	4022736	AC	27-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4022705	JH	27-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	4022705	JH	27-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.1 %		48.2-134	4022713	ms	27-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.0 %		49.1-148	4022713	ms	27-Feb-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

**WSW 3'**  
**H240938-07 (Soil)**

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

Chloride	272		16.0	mg/kg	4	4022736	AC	27-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4022705	JH	27-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4022705	JH	27-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %		71.5-134	4022705	JH	27-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4022713	ms	27-Feb-24	8015B	

Surrogate: 1-Chlorooctane			91.5 %		48.2-134	4022713	ms	27-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			98.8 %		49.1-148	4022713	ms	27-Feb-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4022736 - 1:4 DI Water</b>									
<b>Blank (4022736-BLK1)</b>				Prepared & Analyzed: 27-Feb-24					
Chloride	ND	16.0	mg/kg						
<b>LCS (4022736-BS1)</b>				Prepared & Analyzed: 27-Feb-24					
Chloride	432	16.0	mg/kg	400		108	80-120		
<b>LCS Dup (4022736-BSD1)</b>				Prepared & Analyzed: 27-Feb-24					
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20

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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4022705 - Volatiles****Blank (4022705-BLK1)**

Prepared &amp; Analyzed: 27-Feb-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	71.5-134			

**LCS (4022705-BS1)**

Prepared &amp; Analyzed: 27-Feb-24

Benzene	1.90	0.050	mg/kg	2.00		94.9	82.8-130			
Toluene	1.93	0.050	mg/kg	2.00		96.3	86-128			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.4	85.9-128			
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.6	89-129			
o-Xylene	1.92	0.050	mg/kg	2.00		96.1	86.1-125			
Total Xylenes	5.83	0.150	mg/kg	6.00		97.1	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106	71.5-134			

**LCS Dup (4022705-BSD1)**

Prepared &amp; Analyzed: 27-Feb-24

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130	6.34	15.8	
Toluene	2.04	0.050	mg/kg	2.00		102	86-128	5.74	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	85.9-128	5.13	16	
m,p-Xylene	4.10	0.100	mg/kg	4.00		103	89-129	4.93	16.2	
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125	4.82	16.7	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128	4.90	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	71.5-134			

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**Analytical Results For:**

PARAGON ENVIROMENTAL  
1601 N TURNER ST., STE 500  
HOBBS NM, 88240

Project: STATE S 19 #19  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
04-Mar-24 16:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4022713 - General Prep - Organics****Blank (4022713-BLK1)**

Prepared &amp; Analyzed: 27-Feb-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.3		mg/kg	50.0		90.6	48.2-134			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	49.1-148			

**LCS (4022713-BS1)**

Prepared &amp; Analyzed: 27-Feb-24

GRO C6-C10	206	10.0	mg/kg	200		103	66.4-123			
DRO >C10-C28	198	10.0	mg/kg	200		99.2	66.5-118			
Total TPH C6-C28	404	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	48.2-134			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	49.1-148			

**LCS Dup (4022713-BS1)**

Prepared &amp; Analyzed: 27-Feb-24

GRO C6-C10	199	10.0	mg/kg	200		99.6	66.4-123	3.24	17.7	
DRO >C10-C28	189	10.0	mg/kg	200		94.5	66.5-118	4.79	21	
Total TPH C6-C28	388	10.0	mg/kg	400		97.1	77.6-123	4.00	18.5	
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	58.7		mg/kg	50.0		117	49.1-148			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

State: NM Zip: 88242

Phone #: 575-631-6977

Fax #:

Project #:

Project Owner: Spur

Project Name: State S19 #19

Project Location: Eddy

Sampler Name: Jeremy Mandy

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

#240938

1  
2  
3  
4  
5  
6  
7

S1 3'  
S2 3'  
S3 3'  
MSD 3'  
ESW 3'  
SSW 3'  
USW 3'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH Est

BTEX

Chlorides

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Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

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Date:

Time:

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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 322905

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	322905
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2326129420
Incident Name	NAPP2326129420 STATE S 19 #019 @ 30-015-32059
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-32059] STATE S 19 #019

Location of Release Source	
Please answer all the questions in this group.	
Site Name	STATE S 19 #019
Date Release Discovered	09/17/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other   Well   Crude Oil   Released: 5 BBL   Recovered: 4 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Other   Well   Produced Water   Released: 6 BBL   Recovered: 6 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	STUFFING BOX PACKING FAILED RELEASING AN OIL AND PRODUCED WATER MIX ONTO THE LOCATION PAD

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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 322905

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	322905
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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: 03/13/2024
--	--



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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 3

Action 322905

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	322905
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS****Site Characterization**

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

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

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	544
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	02/06/2024
On what date will (or did) the final sampling or liner inspection occur	02/27/2024
On what date will (or was) the remediation complete(d)	02/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	50

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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**District III**

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QUESTIONS, Page 4

Action 322905

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	322905
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 03/13/2024
<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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Action 322905

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 322905
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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Action 322905

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	322905
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	315705
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/21/2024
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	500

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	400
What was the total volume (cubic yards) remediated	50
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	n/a

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 03/13/2024
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Action 322905

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 322905
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS  
  
Action 322905

CONDITIONS

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	322905
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Closure Approved	5/1/2024
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/1/2024