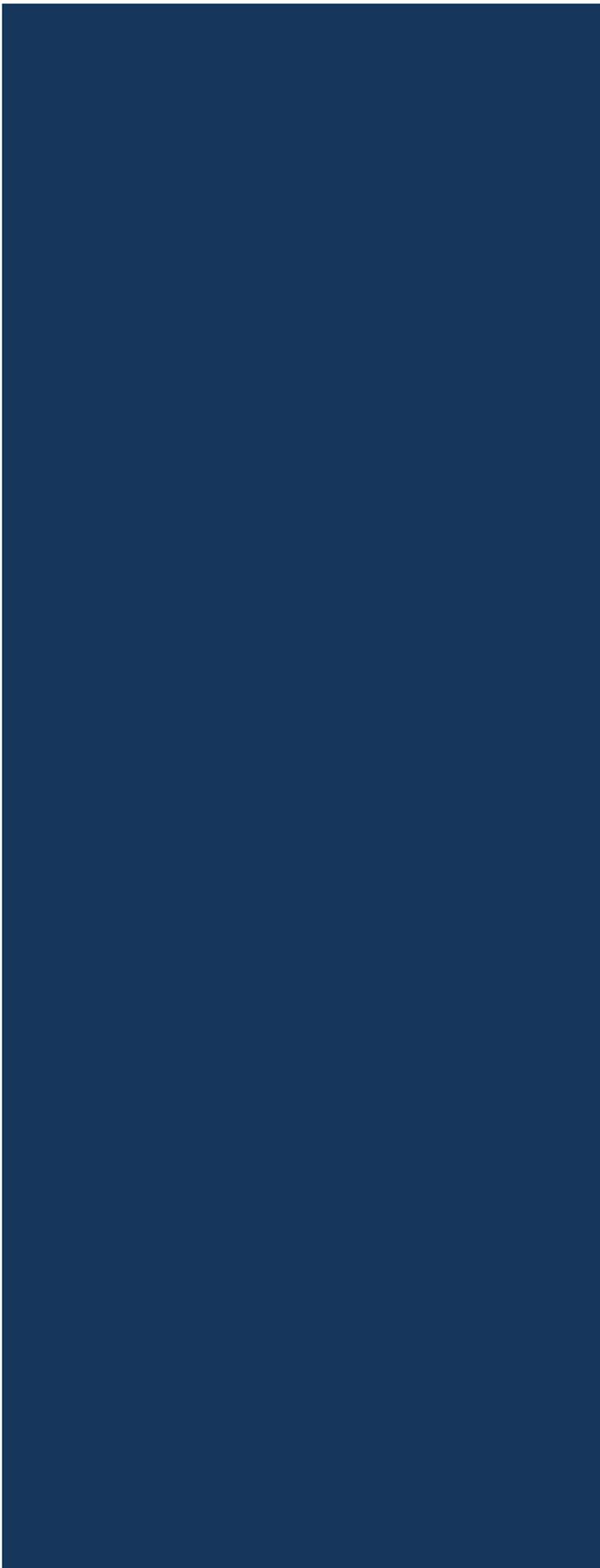


Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
100.000	50.000	11.500
Cubic Feet Impacted		4791.667
Barrels		853.37
Soil Type		Clay
Bbls Assuming 100% Saturation		85.34
Saturation	Fluid present when squeezed	
Estimated Barrels Released		42.70000

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)	100
Width (ft)	50
Depth (in)	11.500









May 11, 2024

NMOCD District 2
 Mike Bratcher
 Artesia, NM 88210

Bureau of Land Management
 Crisha Morgan
 Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Request
Noose Fed Com #10H
API No. 30-015-42500
GPS: Latitude 32.6101608 Longitude -104.4551849
UL "O", Sec. 35, T19S, R25E
Eddy County, NM
NMOCD Ref. No. nAPP2111859050

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 Noose Fed Com #10H (Noose). Details of the release are summarized below:

Release Details			
Type of Release:	Crude Oil & Produced Water	Volume of Release:	42.6 bbls
		Volume Recovered:	40 bbls
Source of Release:	Transfer Pump	Date of Release:	4/25/21
Was Immediate Notice Given?	Yes	If, Yes, to Whom?	NMOCD
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	Federal
The PLC had a communication error causing false tank readings and no alarm was sent out. This caused the transfer pump not to come on, and the water tank ran over. A Vacuum truck was immediately dispatched to recover all standing fluids. Alarm issue was repaired.			

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

REGULATORY FRAMEWORK & SITE CHARACTERIZATION

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:

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

Depth to groundwater information is provided in Appendix A.

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

- A Continuously flowing watercourse or any other significant watercourse- 1/2 mile-1 mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1-5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1-5 mi
- A wetland- 1-5 mi
- A subsurface mine- >5 mi
- An (non-karst) unstable area- Zero feet, overlying, or within the area
- Categorize the risk of this well/site being in a karst area geology- High
- A 100-year floodplain- 1/2-1 mi
- Did the release impact areas not on an exploration, development, production, or storage site- No

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Piedmont alluvial deposits (Holocene to lower Pleistocene)— Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits (QP). According to the United States Department of Agriculture Natural Resources Conservation Service soil survey, the soil in this area is comprised of a Reeves-Gypsum land complex with 0-3 percent slopes. The drainage courses in this area are well-drained. There is a high potential for karst geology to be present in the area of the Noose.

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

INITIAL SITE ASSESSMENT

On December 15, 2021, Paragon sent an Environmental Technician to the site to conduct an initial site assessment and to obtain soil samples. Six (6) soil samples were collected in the spill area along with four (4) background samples in an effort to determine the extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

12-15-21 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date	12-15-21	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤10 mg/kg	Combined Closure Criteria ≤100 mg/kg			Closure Criteria ≤100 mg/kg	Closure Criteria ≤600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRD	DRD	MRO	Total TPH	CHLORIDES
S-1	0-6	ND	ND	ND	ND	ND	ND	32
	1	--	--	--	--	--	--	32
S-2	0-6	ND	ND	ND	ND	ND	ND	1040
	1	--	--	--	--	--	--	768
S-3	0-6	ND	ND	ND	236	43.2	279.2	832
	1	--	--	--	--	--	--	640
	2	--	--	--	--	--	--	592
S-4	0-6	ND	ND	ND	ND	ND	ND	3720
	1	--	--	--	--	--	--	288
	2	--	--	--	--	--	--	240
S-5	0-6	ND	ND	ND	292	16.2	308.2	1720
	1	--	--	--	--	--	--	640
S-6	0-6	ND	ND	ND	ND	ND	ND	640
	1	--	--	--	--	--	--	128
BG-1	0-6	ND	ND	10.1	1220	355	1585.1	272
	1	--	--	--	--	--	--	48
BG-2	0-6	ND	ND	ND	ND	ND	ND	36
BG-3	0-6	ND	ND	ND	ND	ND	ND	16
BG-4	0-6	ND	ND	ND	ND	ND	ND	ND

(ND) Analyte Not Detected, -- Analyte Not Tested

Laboratory data is attached in Appendix D

A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

On December 22, 2021, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following details the remedial activities we conducted to advance the Release Site toward an NMOCD-approved site closure.

Our remediation began by excavating in the areas of BG-1, S-4, S-5, and S-6 down to 1' BGS. The areas of S-2 and S-3 were excavated to a depth of 1.5 feet BGS. The spill affected a total area of approximately 2600 S/F, this includes inside and outside the containment. The containment area measured app. 860 S/F. The area excavated on pad was app 1740 S/F. We excavated approximately 100 C/Y of material. Composite samples were obtained, representing no more than 200 sq/ft for bottoms, and the sidewall samples were obtained every 50 feet. The results of this sampling event are in the following data table.

12-29-21 Confirmation Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date	12-29-21	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 100 mg/kg			Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-2 5-Point Comp	1	--	--	--	--	--	--	752
S-3 5-Point Comp	1	--	--	2720	5180	569	8469	256
S-4 5-Point Comp	1	--	--	43.2	422	65.7	530.9	672
S-5 5-Point Comp	1	--	--	ND	ND	ND	ND	240
S-6 5-Point Comp	1	--	--	ND	ND	ND	ND	192

(ND) Analyte Not Detected, -- Analyte Not Tested

Based on the initial confirmation sample results it was determined we need to remove more material in the vicinity of S-2, S-3, and S-4. On January 3, 2022, Paragon returned to the site, and an additional half a foot was removed from these areas. The area in the vicinity of BG-1 was also excavated to 1-foot BGS. Additional composite confirmation samples were obtained, the results of this event are in the following data table.

1-3-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date	1-3-22	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 100 mg/kg			Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-2	1.5	--	--	--	--	--	--	384
S-2 N. Sidewall (SW)	1.5	--	--	--	--	--	--	608
S-2 E. SW	1.5	ND	ND	ND	ND	ND	ND	272
S-3	1.5	--	--	ND	15.8	ND	15.8	--
S-3 E. SW	1.5	--	--	ND	ND	ND	ND	176
S-4	1	--	--	ND	ND	ND	ND	432
S-4 W. SW	1	--	--	ND	ND	ND	ND	496
BG-1 W. SW	1	ND	ND	ND	ND	ND	ND	32
BG-1 Comp.	1	2.01	ND	49.7	823	171	1043.7	176

ND- Analyte Not Detected, -- Analyte Not Tested

On January 5, 2022, Paragon returned to the site to excavate additional material from the area of S-3 South Sidewall, S-6 South Sidewall, and BG-1 bottom. These results are in the following data table. Based on the clean confirmation samples we were able to backfill with the material we obtained from Lea Land, an NMOCD approved disposal site.

1-5-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date	1-5-22	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 100 mg/kg			Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-3 S. Sidewall Comp	1.5'	ND	ND	ND	ND	ND	ND	16
S-6 S. Sidewall Comp	1	ND	ND	ND	ND	ND	ND	32
BG-1 5-Point Bottom Comp	1.5	--	--	ND	ND	ND	ND	--

ND- Analyte Not Detected, -- Analyte Not Tested

These laboratory analytical results showed that the confirmation soil samples were below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled with “like” material obtained from a localized sand pit. The affected area was then contoured and machine-compacted to match the surrounding grade.

The NMOCD advised Spur the initial closure report had been rejected. On May 28, 2024, Paragon submitted a notification that we would be conducting a liner inspection at this facility on May 30, 2024. The notification and results of the inspection can be found in Appendix C.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2111859050, 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 get in touch with Chris Jones by phone at (575)964-7814 or email at 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 Sample Maps

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – Email Notification, Liner Inspection, & Photographic Documentation
- Appendix D – Laboratory Reports



Figures:

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

Spur Energy

Noose Fed Com #10H
Eddy County, NM
Site Map

Legend

- Samples
- Stained Area



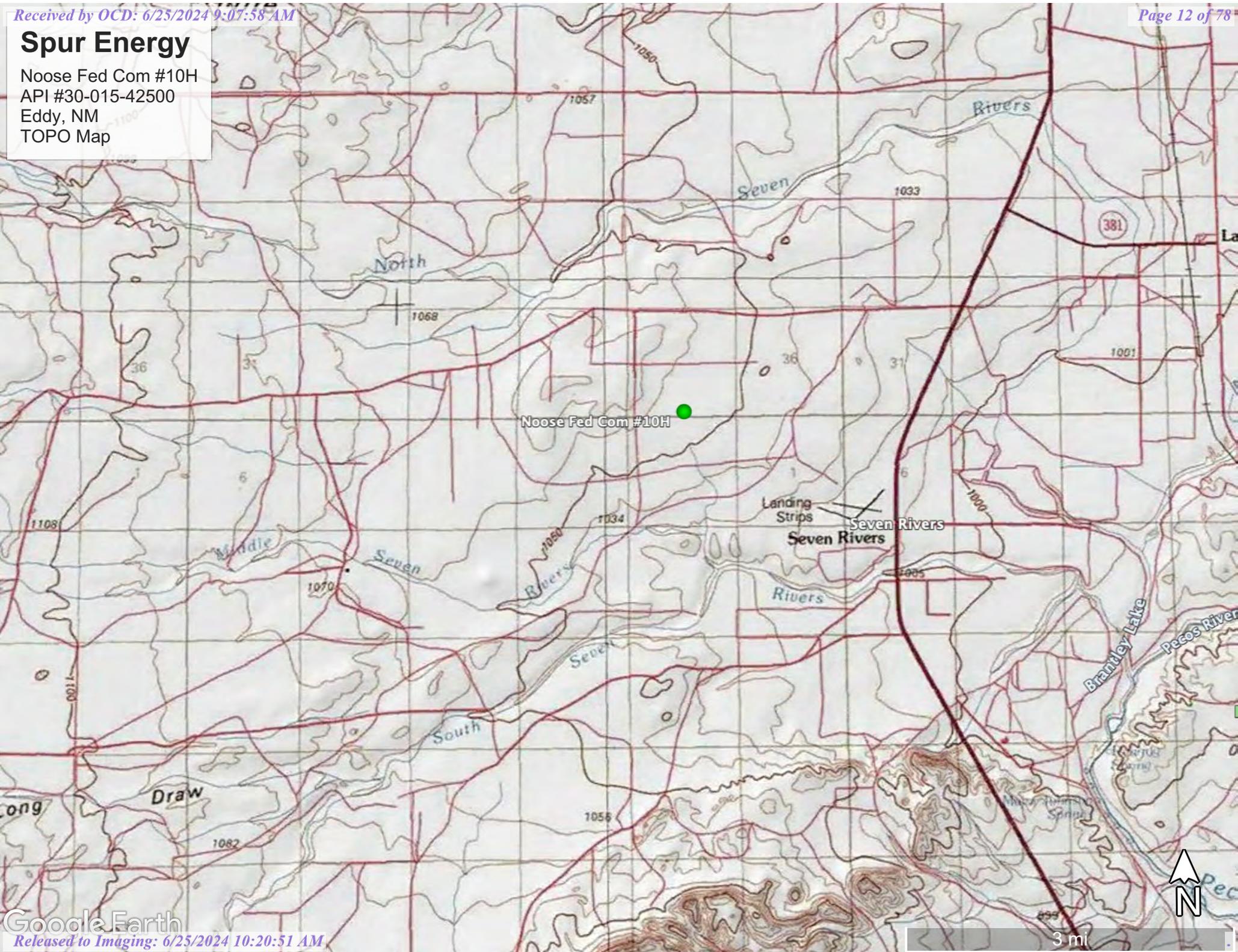
Noose Fed Com #10H



100 ft

Spur Energy

Noose Fed Com #10H
API #30-015-42500
Eddy, NM
TOPO Map

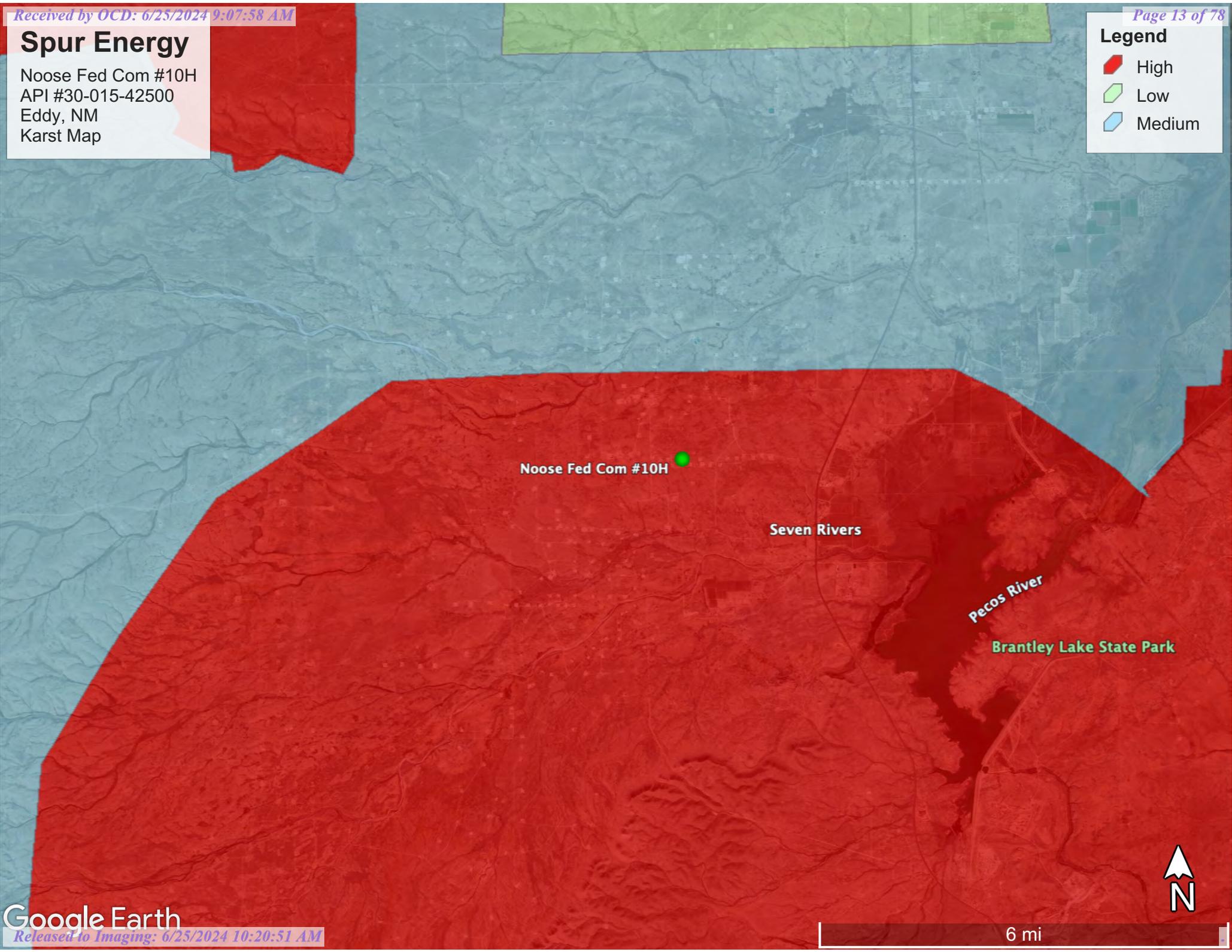


Spur Energy

Noose Fed Com #10H
API #30-015-42500
Eddy, NM
Karst Map

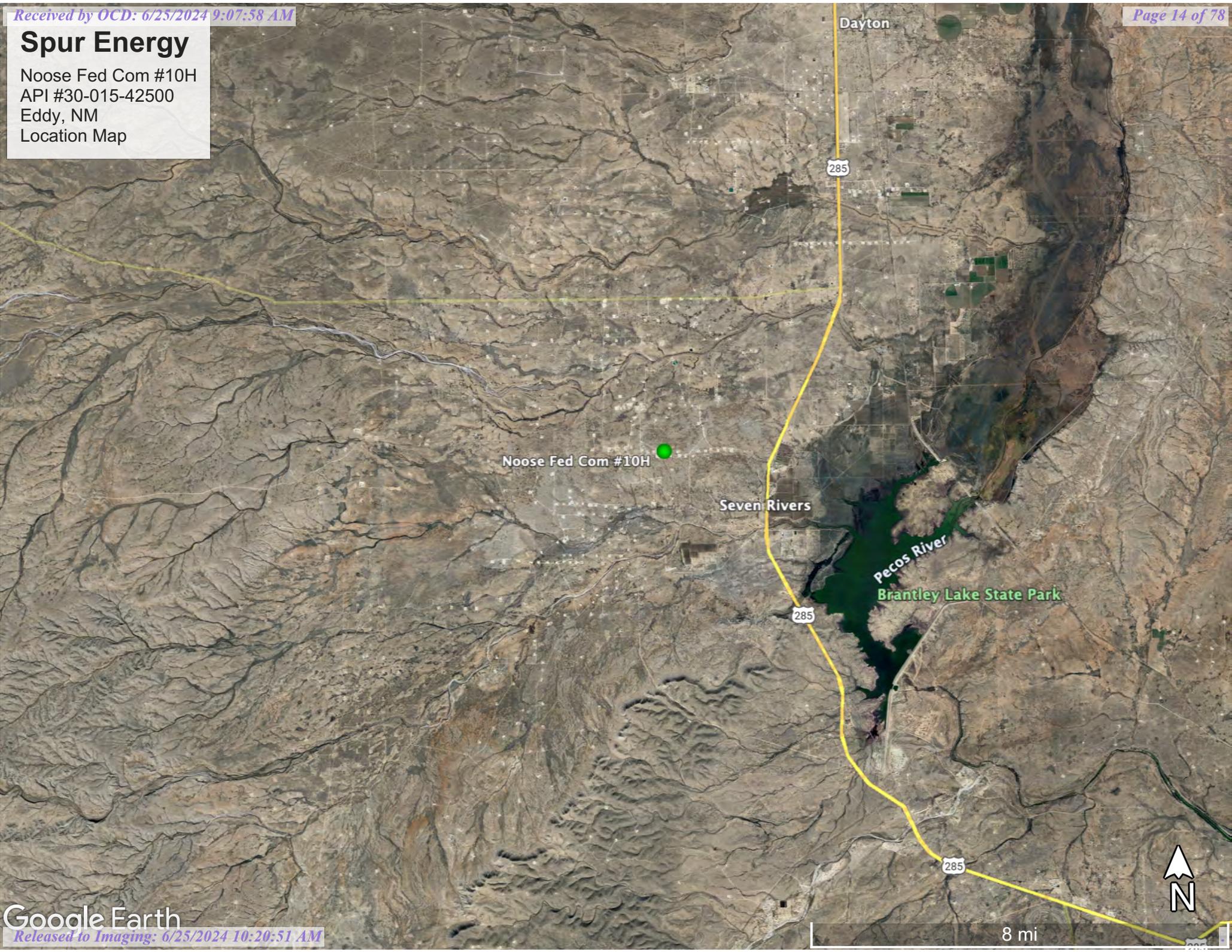
Legend

-  High
-  Low
-  Medium



Spur Energy

Noose Fed Com #10H
API #30-015-42500
Eddy, NM
Location Map



Noose Fed Com #10H

Seven Rivers

Dayton

285

285

285

Pecos River

Brantley Lake State Park



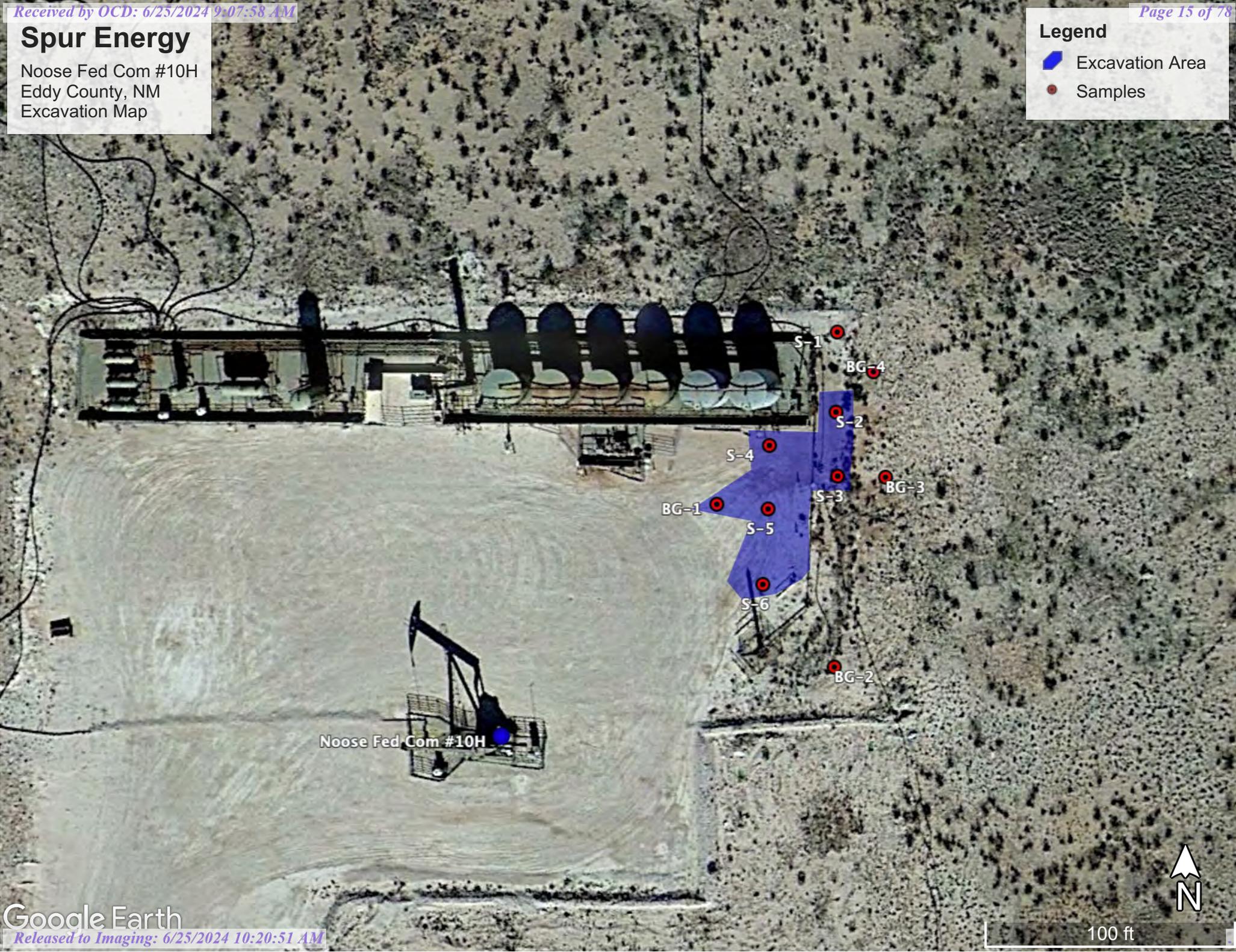
8 mi

Spur Energy

Noose Fed Com #10H
Eddy County, NM
Excavation Map

Legend

-  Excavation Area
-  Samples





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)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 03018		RA	ED	3	2	4	34	19S	25E	549987	3608639*	1213	530		
RA 10898 POD1		RA	ED	2	1	3	01	20S	25E	552198	3607248*	1440	810	121	689

Average Depth to Water: **121 feet**

Minimum Depth: **121 feet**

Maximum Depth: **121 feet**

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 551118.217

Northing (Y): 3608201

Radius: 1500

*UTM location was derived from PLSS - see Help

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

12/14/21 11:22 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 10898	POD1	2	1	3	01	20S	25E	552198	3607248*

Driller License: 331	Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.
Driller Name:	

Drill Start Date: 02/17/2006	Drill Finish Date: 03/08/2006	Plug Date:
Log File Date: 03/27/2006	PCW Rcv Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 1000 GPM
Casing Size: 8.63	Depth Well: 810 feet	Depth Water: 121 feet

Water Bearing Stratifications:	Top	Bottom	Description
	460	802	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	542	802

*UTM location was derived from PLSS - see Help

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

12/14/21 11:21 AM

POINT OF DIVERSION SUMMARY



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, crest, nose slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: 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: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, crest, nose slope, head slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 5 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent
Ecological site: R042XC033NM - Salty Bottomland
Hydric soil rating: No

Reagan

Percent of map unit: 5 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette



104°27'37"W 32°36'52"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
 - Area of Undetermined Flood Hazard Zone D

- GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall

- OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature

- MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/7/2024 at 1:03 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 6/25/2024 10:20:51 AM

1:6,000

104°27'W 32°36'21"N



Appendix C:

NMOCD Notification

Liner Inspection

Photographic Documentation



OCD Permitting

Home > Operator Data > Action Status > Action Search Results > Action Status Item Details

[NOTIFY] Notification Of Liner Inspection (C-141L) Application

Submission Information

Submission ID:	348417	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] , NOOSE FEDERAL COM #010H CTB , nAPP2111859050		
Status:	APPROVED		
Status Date:	05/28/2024		
References (2):	30-015-42500, nAPP2111859050		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2111859050
Incident Name	NAPP2111859050 NOOSE FEDERAL COM #010H CTB @ 30-015-42500
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42500] NOOSE FEDERAL COM #010H

Location of Release Source

Site Name	NOOSE FEDERAL COM #010H CTB
Date Release Discovered	04/25/2021
Surface Owner	Federal

Liner Inspection Event Information

Please answer all the questions in this group.

What is the liner inspection surface area in square feet	860
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	05/30/2024
Time liner inspection will commence	12:00 PM
Warning: Notification can not be less than two business days prior to conducting liner inspection.	
Please provide any information necessary for observers to liner inspection	Angel Peña 575-605-0773
Please provide any information necessary for navigation to liner inspection site	32.6101608, -104.4551849

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: *apena (5/28/2024)*, Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.

Reasons

No reasons found for this submission.

[Go Back](#)





Paragon Environmental LLC

Liner Inspection Form

Company Name: Spur Energy Partners

Site: Noose Fed Com #10H

Lat/Long: 32.6101608,-104.4551849

NMOCD Incident ID & Incident Date: nAPP2111859050 4/25/21

2-Day Notification Sent: 5/28/24

Inspection Date: 5/30/24

Liner Type: Earthen w/liner Earthen no liner Polystar
 Steel w/poly liner Steel w/spray epoxy No Liner

Other: _____

Visualization	Yes	No	Comments
Is there a tear in the liner?		x	
Are there holes in the liner?		x	
Is the liner retaining any fluids?		x	
Does the liner have integrity to contain a leak?	x		

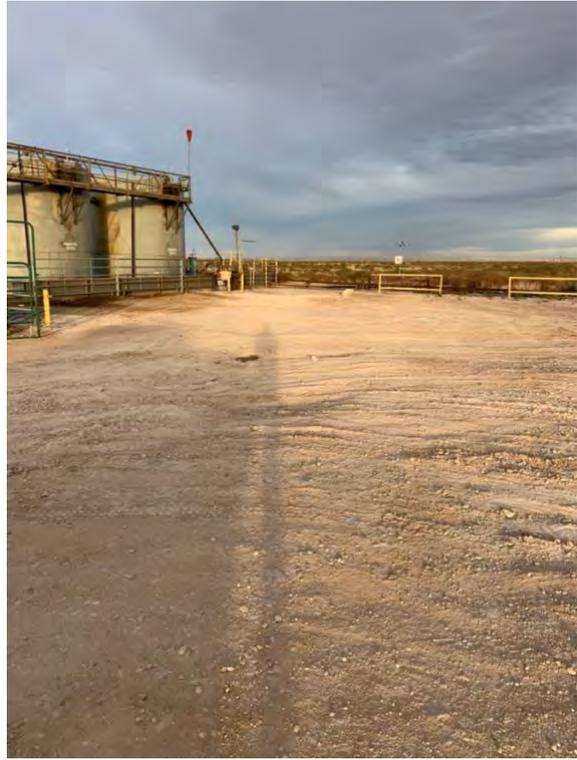
Comments: _____

Inspector Name: Angel Pena



Photographic Documentation

Before Remediation



Excavation

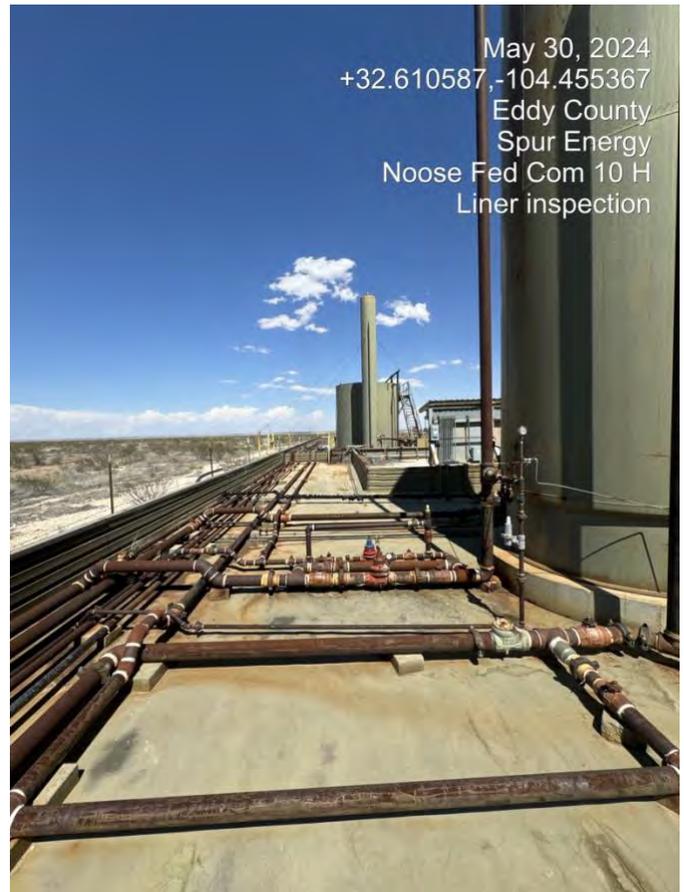
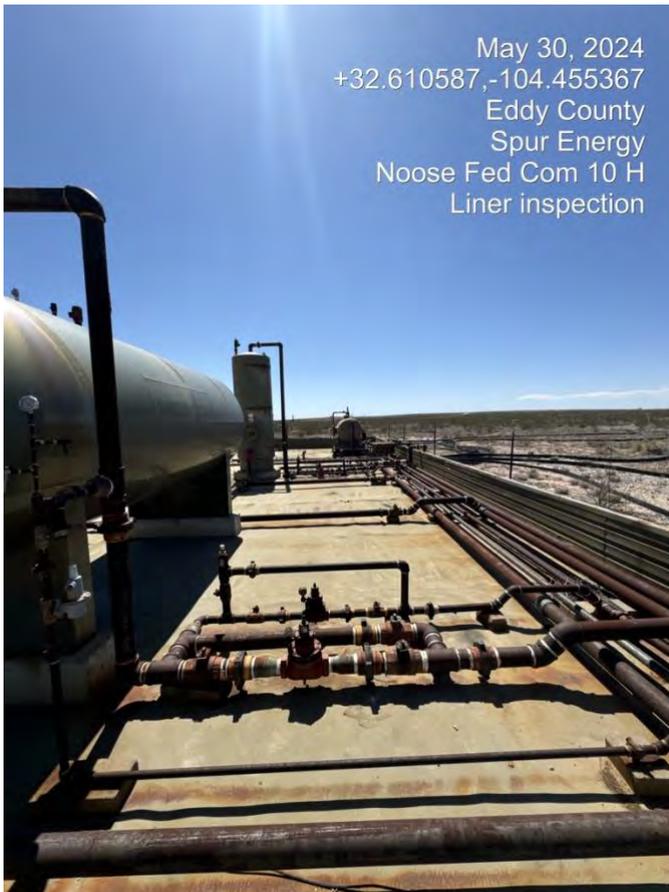


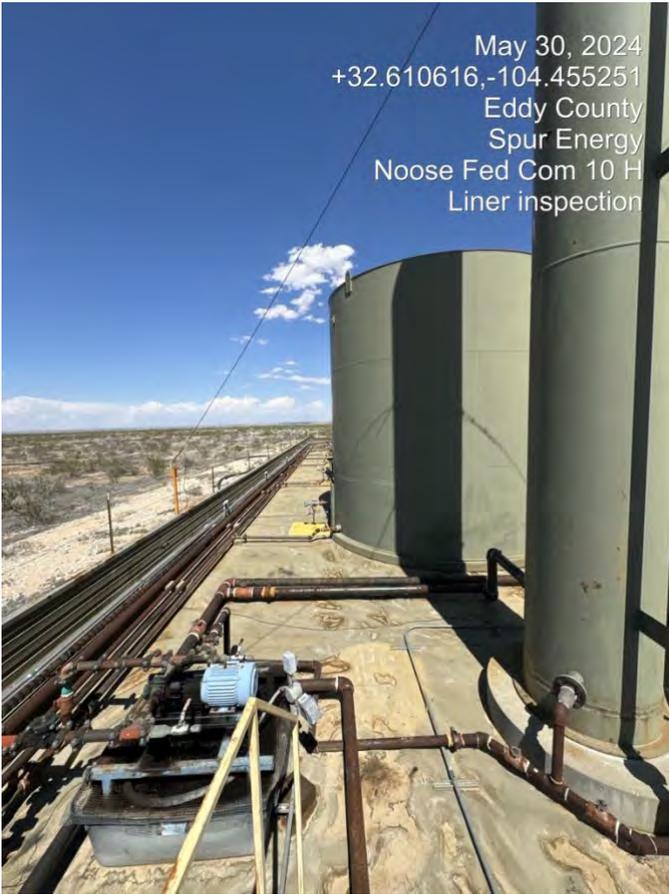


Completed

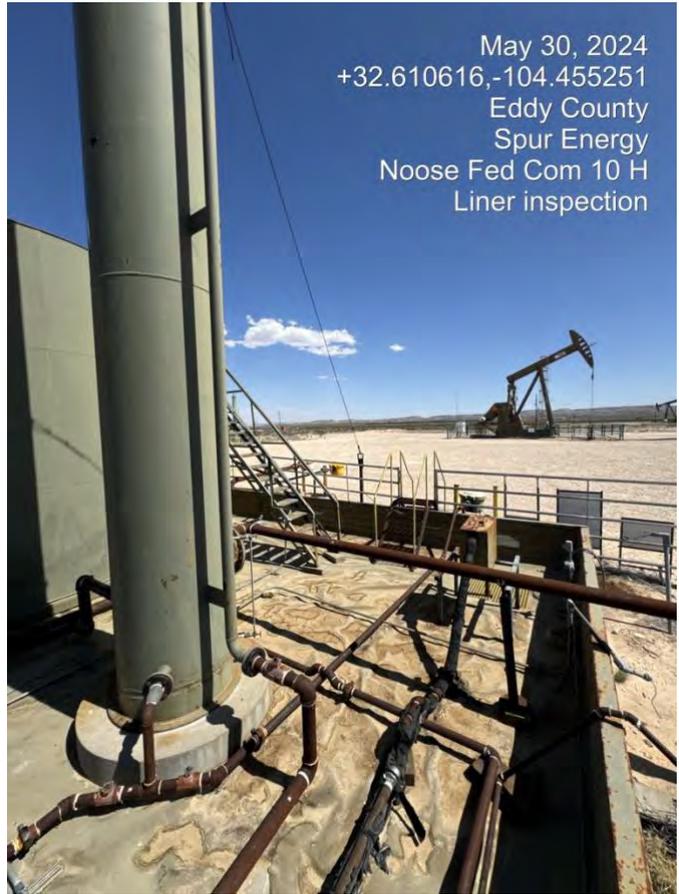


Liner Inspection

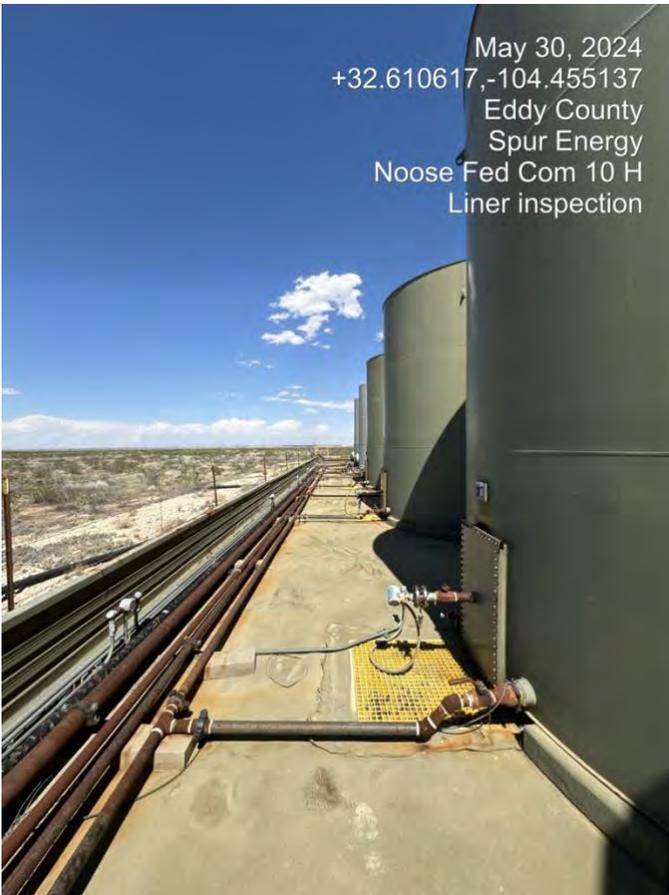




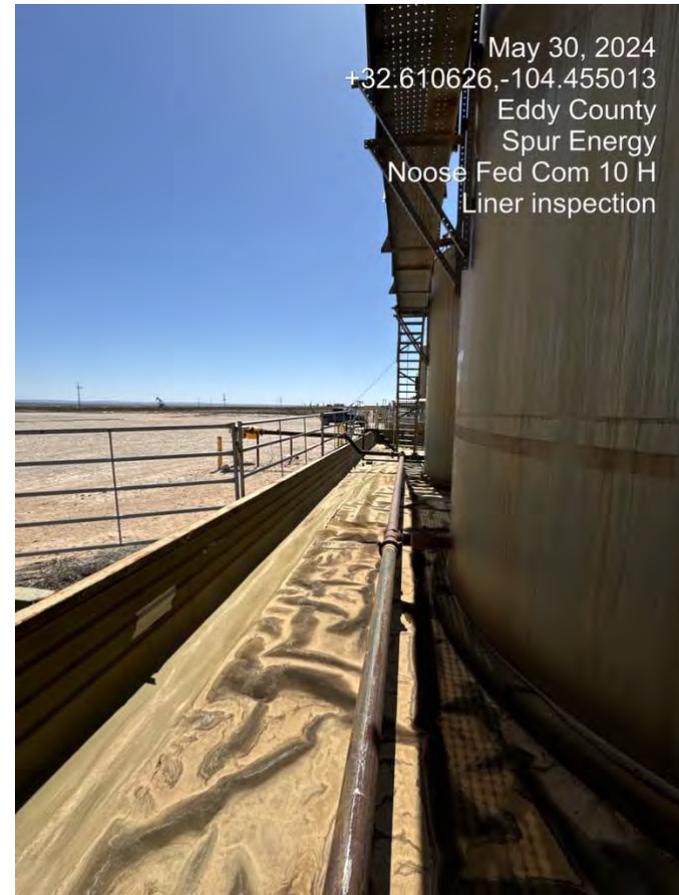
May 30, 2024
+32.610616,-104.455251
Eddy County
Spur Energy
Noose Fed Com 10 H
Liner inspection



May 30, 2024
+32.610616,-104.455251
Eddy County
Spur Energy
Noose Fed Com 10 H
Liner inspection



May 30, 2024
+32.610617,-104.455137
Eddy County
Spur Energy
Noose Fed Com 10 H
Liner inspection



May 30, 2024
+32.610626,-104.455013
Eddy County
Spur Energy
Noose Fed Com 10 H
Liner inspection



Appendix D:
Laboratory Results



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

December 21, 2021

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: NOOSE FED COM 10H

Enclosed are the results of analyses for samples received by the laboratory on 12/16/21 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 1 1' (H213648-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/17/2021	ND	432	108	400	0.00	

Sample ID: S - 2 1' (H213648-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/17/2021	ND	432	108	400	0.00	

Sample ID: S - 3 1' (H213648-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	12/17/2021	ND	432	108	400	0.00	

Sample ID: S - 3 2' (H213648-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/17/2021	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 3 3' (H213648-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/17/2021	ND	432	108	400	0.00	

Sample ID: S - 4 1' (H213648-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/17/2021	ND	432	108	400	0.00	

Sample ID: S - 4 2' (H213648-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/17/2021	ND	432	108	400	0.00	

Sample ID: S - 4 3' (H213648-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/17/2021	ND	432	108	400	0.00	

Sample ID: S - 6 1' (H213648-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/17/2021	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 6 2' (H213648-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/17/2021	ND	432	108	400	0.00	

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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: BG - 1 (H213648-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/20/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/20/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	0.266	0.150	12/20/2021	ND	5.99	99.9	6.00	9.12	GC-NC1
Total BTEX	<0.300	0.300	12/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	10.1	10.0	12/20/2021	ND	212	106	200	0.171		
DRO >C10-C28*	1220	10.0	12/20/2021	ND	194	96.9	200	2.81		
EXT DRO >C28-C36	355	10.0	12/20/2021	ND						

Surrogate: 1-Chlorooctane 89.1 % 62-130

Surrogate: 1-Chlorooctadecane 137 % 54.5-135

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: BG - 2 (H213648-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/17/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 62-130

Surrogate: 1-Chlorooctadecane 60.4 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: BG - 3 (H213648-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/17/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 87.3 % 62-130

Surrogate: 1-Chlorooctadecane 67.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: BG - 4 (H213648-14)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/17/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 62-130

Surrogate: 1-Chlorooctadecane 63.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 1 0-6" (H213648-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/17/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2021	ND	212	106	200	0.171	
DRO >C10-C28*	<10.0	10.0	12/20/2021	ND	194	96.9	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	12/20/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 62-130

Surrogate: 1-Chlorooctadecane 58.9 % 54.5-135

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 2 0-6" (H213648-16)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/17/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/17/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 94.2 % 62-130

Surrogate: 1-Chlorooctadecane 99.3 % 54.5-135

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 3 0-6" (H213648-17)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/18/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	236	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	43.2	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 78.8 % 62-130

Surrogate: 1-Chlorooctadecane 93.6 % 54.5-135

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 4 0-6" (H213648-18)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/18/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 87.1 % 62-130

Surrogate: 1-Chlorooctadecane 95.1 % 54.5-135

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 5 0-6" (H213648-19)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/18/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	292	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	16.2	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 62-130

Surrogate: 1-Chlorooctadecane 97.8 % 54.5-135

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/16/2021	Sampling Date:	12/15/2021
Reported:	12/21/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 6 0-6" (H213648-20)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2021	ND	1.97	98.7	2.00	8.75	
Toluene*	<0.050	0.050	12/18/2021	ND	1.96	98.2	2.00	9.13	
Ethylbenzene*	<0.050	0.050	12/18/2021	ND	1.95	97.6	2.00	8.88	
Total Xylenes*	<0.150	0.150	12/18/2021	ND	6.01	100	6.00	9.64	
Total BTEX	<0.300	0.300	12/18/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	12/17/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2021	ND	224	112	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	231	116	200	6.51	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 62-130

Surrogate: 1-Chlorooctadecane 87.8 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
 Project Manager: Cass Sparbeck
 Address: 5002 Carrage Rd
 City: Hobbs State: NM Zip: 88242
 Phone #: 505-631-6977 Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Noose Follow Up 7/11/12
 Project Location: Eddy NM
 Sampler Name: Travis Collins

P.O. #: _____
 Company: Spr Energy
 Attn: Brady Moulder
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H2131418	S-1 1'	9	1			X				7/5/12	1140	Chlorides
	S-2 1'									1150		
	S-3 1'									1200		
	S-3 2'									1210		
	S-3 3'									1220		
	S-4 1'									1230		
	S-4 2'									1240		
	S-4 3'									1250		
	S-6 1'									1300		
	S-6 2'									1315		

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Relinquished By: Travis Collins Date: 7/6/12 Received By: Spdi Skovron
 Relinquished By: _____ Date: _____ Received By: _____

Delivered By: (Circle One) Observed Temp. °C 2.5 Sample Condition Intact Cool Intact Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C 2.0 CHECKED BY: [Signature] (Initials)
 Turnaround Time: _____ Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp. °C _____

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Barrow Environmental
 Project Manager: Casbi Sparlock
 Address: 5002 Carriage Rd
 City: Hobbs State: NM Zip: 88242
 Phone #: 575-631-6977 Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Moose Field 1st
 Project Location: Eddy NM
 Sampler Name: Tavis Collins
 P.O. #: _____ Company: Star Energy
 Attn: Brady Maulder
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11	BG-1	G	1			X				1/25/21	1000	X	X	X
12	BG-2									10/10	1026	X	X	X
13	BG-3									10/30	1040	X	X	X
14	BG-4									10/50	1100	X	X	X
15	B-6									11/00	1110	X	X	X
16	S-2									11/20	1130	X	X	X
17	S-3													
18	S-4													
19	S-5													
20	S-6													

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Relinquished By: Tavis Collins Date: 10/10/21 Received By: Brady Maulder
 Relinquished By: _____ Date: _____ Received By: _____

Delivered By: (Circle One) Standard Rush
 Sampler - UPS - Bus - Other: _____ Corrected Temp. °C: 2.0
 Turnaround Time: _____ Bacteria (only) Sample Condition Cool Intact Observed Temp. °C: _____
 Thermometer ID #113 Correction Factor -0.5°C Yes No Yes No Corrected Temp. °C: _____

FORWARD TO: 32 1007721
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 30, 2021

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: NOOSE FED COM 10H

Enclosed are the results of analyses for samples received by the laboratory on 12/29/21 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	12/30/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 2 5 POINT (H213747-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/30/2021	ND	432	108	400	0.00	

Sample ID: S - 3 5 POINT (H213747-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/30/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2720	50.0	12/30/2021	ND	165	82.5	200	26.2		
DRO >C10-C28*	5180	50.0	12/30/2021	ND	204	102	200	10.6		
EXT DRO >C28-C36	569	50.0	12/30/2021	ND						

Surrogate: 1-Chlorooctane 185 % 66.9-136
 Surrogate: 1-Chlorooctadecane 210 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	12/30/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 4 5 POINT (H213747-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/30/2021	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	43.2	10.0	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	422	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	65.7	10.0	12/30/2021	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>99.9 %</i>	<i>66.9-136</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>103 %</i>	<i>59.5-142</i>							

Sample ID: S - 5 5 POINT (H213747-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/30/2021	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>89.0 %</i>	<i>66.9-136</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>87.2 %</i>	<i>59.5-142</i>							

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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
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	12/29/2021	Sampling Date:	12/29/2021
Reported:	12/30/2021	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 6 5 POINT (H213747-05)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/30/2021	ND	432	108	400	0.00	

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2021	ND	165	82.5	200	26.2	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	204	102	200	10.6	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-04 The RPD for the BS/BSD was outside of historical limits.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Paragon Environmental</u>		BILL TO	
Project Manager: <u>Cheri Spauld</u>		P.O. #:	
Address: <u>5002 Carnegie Rd</u>		Company: <u>Spar Energy</u>	
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: <u>Brady Maulder</u>	
Phone #: <u>575</u> Fax #:		Address:	
Project #: _____ Project Owner:		City:	
Project Name: <u>Moose Feed Co. 15#</u>		State: _____ Zip:	
Project Location: <u>Eddy Co.</u>		Phone #:	
Sampler Name: <u>Travis Collins</u>		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPT	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.				
<u>H213717</u>	<u>Ag-1 Spout 40 Sample</u>	<u>C</u>				<u>X</u>					<u>12-29-21</u>	<u>1405</u>		
	<u>S-2 S point</u>										<u>2-29-21</u>	<u>1410</u>	<u>X</u>	
	<u>S-3 S point</u>										<u>2-29-21</u>	<u>1420</u>	<u>X</u>	
	<u>S-4 S point</u>										<u>2-29-21</u>	<u>1430</u>	<u>X</u>	
	<u>S-5 S point</u>										<u>2-29-21</u>	<u>1440</u>	<u>X</u>	
	<u>S-6 S point</u>										<u>2-29-21</u>	<u>1450</u>	<u>X</u>	

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Relinquished By: <u>Travis Collins</u>	Date: <u>12/29/21</u>	Received By: <u>Cheri Spauld</u>	Date: <u>12/29/21</u>
Relinquished By: _____	Date: _____	Received By: _____	Date: _____

Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____	Observed Temp. °C: <u>14.7°C</u> Corrected Temp. °C: <u>14.2°C</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Other <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: <u>Cheri Spauld</u> (Initials)	Turnaround Time: _____ Thermometer ID #113 Correction Factor -0.5°C	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrected Temp. °C: _____
------------------------------------------------------------------	-----------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



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

January 04, 2022

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: NOOSE FED COM 10H

Enclosed are the results of analyses for samples received by the laboratory on 01/03/22 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/03/2022	Sampling Date:	01/03/2022
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	1-1	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 2 (H220008-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/04/2022	ND	400	100	400	0.00	

Sample ID: S - 2 NSW (H220008-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/04/2022	ND	400	100	400	0.00	

Sample ID: S - 3 (H220008-03)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	15.8	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.8 % 59.5-142

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



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/03/2022	Sampling Date:	01/03/2022
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	1-1	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 3 ESW (H220008-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/04/2022	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>102 %</i>	<i>66.9-136</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>97.8 %</i>	<i>59.5-142</i>							

Sample ID: S - 4 (H220008-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/04/2022	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>101 %</i>	<i>66.9-136</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>98.0 %</i>	<i>59.5-142</i>							

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



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/03/2022	Sampling Date:	01/03/2022
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	1-1	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 4 WSW (H220008-06)

Chloride, SM4500CI-B **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/04/2022	ND	400	100	400	0.00	

TPH 8015M **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.4 % 59.5-142

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



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Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/03/2022	Sampling Date:	01/03/2022
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	1-1	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: BG - 1 WSW (H220008-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/04/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 59.5-142

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



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/03/2022	Sampling Date:	01/03/2022
Reported:	01/04/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	** (See Notes)
Project Number:	1-1	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 2 ESW (H220008-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/04/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received: 01/03/2022
 Reported: 01/04/2022
 Project Name: NOOSE FED COM 10H
 Project Number: 1-1
 Project Location: SPUR - EDDY CO NM

Sampling Date: 01/03/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1 COMP (H220008-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	GC-NC
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	2.01	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	GC-NC1
Total BTEX	2.01	0.300	01/04/2022	ND					GC-NC1

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/04/2022	ND	400	100	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*	49.7	10.0	01/04/2022	ND	211	106	200	0.684	
DRO >C10-C28*	823	10.0	01/04/2022	ND	199	99.5	200	2.90	
EXT DRO >C28-C36	171	10.0	01/04/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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



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

Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Handwritten signature of Mike Snyder

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Paragon Environmental</u> Project Manager: <u>Cason Sparkle</u>		P.O. #: _____ Company: <u>Spar Energy</u>	
Address: <u>5002 Barage Rd</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88242</u>		Attn: <u>Brandy Moulder</u> Address: _____ City: _____ State: _____ Zip: _____	
Phone #: <u>575.631.6917</u> Fax #: _____ Project #: <u>121</u> Project Owner: <u>Spar Energy</u>		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Location: <u>Eddy</u> Sampler Name: <u>Treas Collins</u>		PRESERV: _____ SAMPLING: _____	
FOR LAB USE ONLY			
Lab I.D. <u>H220008</u>	Sample I.D.	(G)RAB OR (C)OMP.	DATE
1 <u>9-2 NSW</u>	1 <u>9-2 NSW</u>	G	13-22
2 <u>9-3 NSW</u>	2 <u>9-3 NSW</u>	K	1300
3 <u>9-3 ESW</u>	3 <u>9-3 ESW</u>	I	1820
4 <u>9-4 NSW</u>	4 <u>9-4 NSW</u>	I	1330
5 <u>9-4 NSW</u>	5 <u>9-4 NSW</u>	I	1340
6 <u>9-2 ESW</u>	6 <u>9-2 ESW</u>	I	1350
7 <u>9-1 ESW</u>	7 <u>9-1 ESW</u>	I	1400
8 <u>9-1 ESW</u>	8 <u>9-1 ESW</u>	I	1400
9 <u>9-1 ESW</u>	9 <u>9-1 ESW</u>	I	1400
10 <u>9-1 ESW</u>	10 <u>9-1 ESW</u>	I	1400
11 <u>9-1 ESW</u>	11 <u>9-1 ESW</u>	I	1400
12 <u>9-1 ESW</u>	12 <u>9-1 ESW</u>	I	1400
13 <u>9-1 ESW</u>	13 <u>9-1 ESW</u>	I	1400
14 <u>9-1 ESW</u>	14 <u>9-1 ESW</u>	I	1400
15 <u>9-1 ESW</u>	15 <u>9-1 ESW</u>	I	1400
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18 <u>9-1 ESW</u>	18 <u>9-1 ESW</u>	I	1400
19 <u>9-1 ESW</u>	19 <u>9-1 ESW</u>	I	1400
20 <u>9-1 ESW</u>	20 <u>9-1 ESW</u>	I	1400
21 <u>9-1 ESW</u>	21 <u>9-1 ESW</u>	I	1400
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55 <u>9-1 ESW</u>	55 <u>9-1 ESW</u>	I	1400
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73 <u>9-1 ESW</u>	73 <u>9-1 ESW</u>	I	1400
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96 <u>9-1 ESW</u>	96 <u>9-1 ESW</u>	I	1400
97 <u>9-1 ESW</u>	97 <u>9-1 ESW</u>	I	1400
98 <u>9-1 ESW</u>	98 <u>9-1 ESW</u>	I	1400
99 <u>9-1 ESW</u>	99 <u>9-1 ESW</u>	I	1400
100 <u>9-1 ESW</u>	100 <u>9-1 ESW</u>	I	1400



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

January 11, 2022

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: NOOSE FED COM 10H

Enclosed are the results of analyses for samples received by the laboratory on 01/07/22 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/07/2022	Sampling Date:	01/05/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	1-2	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 3 S. SIDEWALL (H220067-01)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/07/2022	ND	2.02	101	2.00	4.81		
Toluene*	<0.050	0.050	01/07/2022	ND	1.96	98.1	2.00	4.34		
Ethylbenzene*	<0.050	0.050	01/07/2022	ND	1.90	95.2	2.00	4.11		
Total Xylenes*	<0.150	0.150	01/07/2022	ND	5.81	96.8	6.00	3.13		
Total BTEX	<0.300	0.300	01/07/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/10/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/07/2022	ND	206	103	200	10.1		
DRO >C10-C28*	<10.0	10.0	01/07/2022	ND	238	119	200	2.29		
EXT DRO >C28-C36	<10.0	10.0	01/07/2022	ND						

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/07/2022	Sampling Date:	01/05/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	1-2	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: S - 6 S. SIDEWALL (H220067-02)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2022	ND	2.02	101	2.00	4.81	
Toluene*	<0.050	0.050	01/07/2022	ND	1.96	98.1	2.00	4.34	
Ethylbenzene*	<0.050	0.050	01/07/2022	ND	1.90	95.2	2.00	4.11	
Total Xylenes*	<0.150	0.150	01/07/2022	ND	5.81	96.8	6.00	3.13	
Total BTEX	<0.300	0.300	01/07/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	203	101	200	0.0498	
DRO >C10-C28*	<10.0	10.0	01/10/2022	ND	190	94.9	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
 CASON SPURLOCK
 5002 CARRAIGE RD
 HOBBS NM, 88242
 Fax To:

Received:	01/07/2022	Sampling Date:	01/05/2022
Reported:	01/11/2022	Sampling Type:	Soil
Project Name:	NOOSE FED COM 10H	Sampling Condition:	Cool & Intact
Project Number:	1-2	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY CO NM		

Sample ID: BG - 1 5 POINT BOTTOM COMP (H220067-03)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2022	ND	203	101	200	0.0498	
DRO >C10-C28*	<10.0	10.0	01/10/2022	ND	190	94.9	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	01/10/2022	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>99.5 %</i>	<i>66.9-136</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>103 %</i>	<i>59.5-142</i>							

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:	
Project Manager: Cason Spurlock		Company: SPUR	
Address: 5002 Carriage Rd		Attn:	
City: Hobbs		Address:	
Phone #: 575-631-6977		City:	
Project #: 1-2		State: Zip:	
Project Name: Moose Fed Gm Lot#		Phone #:	
Project Location: Eddy, NM		Fax #:	
Sampler Name: Travis Collins		PRESERV:	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H330067	S-3 S. Sidewell	C				/					1-5-22	430	BTEX
	S-6 S. Sidewell	C				/						440	TPH
	BG-1 S Point Bathn Comp.	C				/						450	Chlorides

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

Relinquished By: *[Signature]* Date: 7-22 Time: 8:40
 Received By: *[Signature]* Date: 8-40 Time: 8:40

Delivered By: (Circle One) UPS Bus Other: *0.42* *0-0-50*
 Sample Condition: Cool Intact Yes No

Checked By: *[Signature]* *0.92* *#113*

REMARKS:

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
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QUESTIONS

Action 357205

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2111859050
Incident Name	NAPP2111859050 NOOSE FEDERAL COM #010H CTB @ 30-015-42500
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42500] NOOSE FEDERAL COM #010H

Location of Release Source

Please answer all the questions in this group.

Site Name	NOOSE FEDERAL COM #010H CTB
Date Release Discovered	04/25/2021
Surface Owner	Federal

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: Normal Operations Other (Specify) Crude Oil Released: 2 BBL Recovered: 2 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Normal Operations Other (Specify) Produced Water Released: 41 BBL Recovered: 38 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 357205

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>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.</i>	

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: 06/25/2024
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QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 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	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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)	3720
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8469
GRO+DRO (EPA SW-846 Method 8015M)	7900
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	12/22/2021
On what date will (or did) the final sampling or liner inspection occur	12/29/2021
On what date will (or was) the remediation complete(d)	01/05/2022
What is the estimated surface area (in square feet) that will be reclaimed	1740
What is the estimated volume (in cubic yards) that will be reclaimed	100
What is the estimated surface area (in square feet) that will be remediated	1740
What is the estimated volume (in cubic yards) that will be remediated	100

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

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

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QUESTIONS, Page 4

Action 357205

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/25/2024
----------------------------------------------------	----------------------------------------------------------------------------------------------------------------

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

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QUESTIONS, Page 5

Action 357205

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only

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

Requesting a deferral of the remediation closure due date with the approval of this submission	No
------------------------------------------------------------------------------------------------	----

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QUESTIONS, Page 6

Action 357205

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	357217
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/05/2022
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	1200

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	1740
What was the total volume (cubic yards) remediated	100
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	1740
What was the total volume (in cubic yards) reclaimed	100
Summarize any additional remediation activities not included by answers (above)	ALL CONTAMINATED SOIL REMOVED TO THE MOST STRINGENT STANDARD AND LINER INSPECTION FOUND LINER TO BE ABLE TO CONTAIN FLUIDS

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: 06/25/2024
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QUESTIONS, Page 7

Action 357205

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 357205

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 357205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	6/25/2024