



August 8, 2023

NMOCD District 2
 Mike Bratcher
 Artesia, NM 88210

Bureau of Land Management
 Crisha Morgan
 Carlsbad Field Office

**Re: Site Assessment, Remediation, and Closure Report
 Rose #3H
 API No. 30-015-45114
 GPS: Latitude 32.680508 Longitude -104.427371
 UL "D", Sec. 07, T19S, R26E
 Eddy County, NM
 NMOCD Ref. No. NRM2020356139**

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 Rose #3H (Rose). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	8 bbls
		Volume Recovered:	3 bbls
Source of Release:	Flowline	Date of Release:	7/7/20
Was Immediate Notice Given?	No	If, Yes, to Whom?	N/A
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	State	Mineral Owner:	State
A split in the flowline on the weld at the transition extending from the wellhead. All fluid remained on the pad area of the location..			

Topographical and Aerial Maps are provided in Figures #2 and #4. A copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) can be found in Appendix C.

REGULATORY FRAMEWORK

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

Site Characteristics	
Approximate Depth to Groundwater	50'
Within 330 ft. of any continuously flowing or significant watercourse?	NO
Within 200 ft. of any lakebed, sinkhole, or playa lake?	NO
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	NO
Within 500 ft. of a spring, private, or domestic freshwater well?	NO
Within 1000 ft. of any fresh water well?	NO
Within the incorporated municipal boundaries or within a municipal well field?	NO
Within 300 ft. of a wetland?	NO
Within the area overlying a subsurface mine?	NO
Within an unstable area such as Karst?	NO
Within a 100-year floodplain?	NO

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within ½ Mile of the Release Site. The data initially found on the State Engineers website showed there was NO water data within a ½ mile radius. With this being the case, we cleaned it up to the most stringent criteria.

Depth to groundwater information is provided in Appendix A.

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). The soil in this area is made up of Pima Silt Loam, with 0 to 1 percent slopes, and Reagan-Upton Association, with 0 to 9 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are both well-drained. There is NOT a high potential for karst geology to be present around the Rose (Figure #3).

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

TABLE I CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
	Constituent	Method	Limit
<50' Feet	Chloride	EPA 300.0	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

INITIAL SITE ASSESSMENT

On December 29th, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had flowed from the busted flowline and onto the pad. Twelve (12) soil samples were collected in this area in an effort to determine the vertical extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. The tables summarizing laboratory analytical results from soil samples collected during the above-stated activities are provided below:

12-29-22 Sample Results

NMOC Table 1 Closure Criteria 19.15,29 NMAC (Depth to Groundwater is <50')								
Sample Date	12-29-22	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 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-1	Surface	ND	ND	ND	ND	ND	ND	80
	1'	ND	ND	ND	ND	ND	ND	1880
S-2	2'	ND	ND	ND	ND	ND	ND	1700
	3'	--	--	--	--	--	--	800
	4'	--	--	--	--	--	--	416
	5'	--	--	--	--	--	--	16
	6'	--	--	--	--	--	--	32
	6'	--	--	--	--	--	--	112
S-3	Surface	ND	ND	ND	ND	ND	ND	96
S-4	1'	ND	ND	ND	ND	ND	ND	304
	2'	--	--	--	--	--	--	128
	3'	--	--	--	--	--	--	32
	4'	--	--	--	--	--	--	32
	5'	--	--	--	--	--	--	32
	6'	--	--	--	--	--	--	16
S-5	Surface	ND	ND	ND	ND	ND	ND	224
	1'	ND	ND	ND	ND	ND	ND	208
	2'	--	--	--	--	--	--	32
	3'	--	--	--	--	--	--	32
	4'	--	--	--	--	--	--	16
	5'	--	--	--	--	--	--	32
S-6	6'	--	--	--	--	--	--	16
	Surface	ND	ND	ND	30.4	ND	30.4	96
	1'	ND	ND	ND	ND	ND	ND	208
	2'	--	--	--	--	--	--	16
	3'	--	--	--	--	--	--	32
	4'	--	--	--	--	--	--	16
S-7	5'	--	--	--	--	--	--	32
	6'	--	--	--	--	--	--	16
	Surface	ND	ND	ND	80.7	24.5	105.2	16000
	1'	ND	ND	ND	ND	ND	ND	3600
	2'	--	--	--	--	--	--	16
	3'	--	--	--	--	--	--	32
S-8	4'	--	--	--	--	--	--	64
	5'	--	--	--	--	--	--	384
	6'	--	--	--	--	--	--	16
	Surface	ND	ND	ND	ND	ND	ND	160
	1'	ND	ND	ND	ND	ND	ND	48
	2'	--	--	--	--	--	--	160
S-9	3'	--	--	--	--	--	--	96
	4'	--	--	--	--	--	--	64
	5'	--	--	--	--	--	--	32
	6'	--	--	--	--	--	--	112
	Surface	ND	ND	ND	ND	ND	ND	96
	1'	ND	ND	ND	ND	ND	ND	288
S-10	2'	--	--	--	--	--	--	112
	3'	--	--	--	--	--	--	544
	4'	--	--	--	--	--	--	64
	5'	--	--	--	--	--	--	576
	6'	--	--	--	--	--	--	48
	Surface	ND	ND	ND	137	40.6	177.6	128
S-11	1'	ND	ND	ND	ND	ND	ND	528
	2'	--	--	--	--	--	--	96
	3'	--	--	--	--	--	--	112
	4'	--	--	--	--	--	--	352
	5'	--	--	--	--	--	--	48
	6'	--	--	--	--	--	--	80
S-12	Surface	ND	ND	ND	ND	ND	ND	144
	1'	ND	ND	ND	ND	ND	ND	96
	2'	--	--	--	--	--	--	16
	3'	--	--	--	--	--	--	32
	4'	--	--	--	--	--	--	16
	5'	--	--	--	--	--	--	32
S-12	6'	--	--	--	--	--	--	32
	Surface	ND	ND	ND	ND	ND	ND	2440
	1'	ND	ND	ND	36.4	ND	36.4	112
	2'	--	--	--	--	--	--	48
	3'	--	--	--	--	--	--	16
	4'	--	--	--	--	--	--	16
5'	--	--	--	--	--	--	32	
6'	--	--	--	--	--	--	32	

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

A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

On June 12, 2023, Paragon mobilized personnel and 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 scope of work went was as follow:

- In the vicinity of S-2 we excavated to 3' BGS.
- In the vicinity of S-7 we excavated to 2' BGS.
- In the vicinity of S-10 and S-12 we excavated to 1' BGS.

An email notification was sent to the NMOCD prior to obtaining confirmation samples. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

6-16-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 6-16-23	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S - 12 ESW COMP	ND	ND	ND	ND	ND	0	32
S - 12 NSW COMP	ND	ND	ND	ND	ND	0	16
S - 12 SSW COMP	ND	ND	ND	ND	ND	0	32
S - 12 WSW COMP	ND	ND	ND	ND	ND	0	16
S - 2 ESW - 1	ND	ND	ND	384	ND	384	64
S - 2 ESW - 2	ND	ND	ND	ND	ND	0	96
S - 2 NSW COMP	ND	ND	ND	ND	ND	0	96
S - 2 WSW - 1	ND	ND	ND	ND	ND	0	48
S - 2 WSW - 2	ND	ND	ND	ND	ND	0	320
S - 7 ESW - 1	ND	ND	ND	ND	ND	0	80
S - 7 ESW - 2	ND	ND	ND	ND	ND	0	96
S - 7 SSW COMP	ND	ND	ND	ND	ND	0	80
S - 7 WSW - 1	ND	ND	ND	ND	ND	0	80
S - 7 WSW - 2	ND	ND	ND	ND	ND	0	80

(ND) Analyte Not Detected

These laboratory analytical results showed that the confirmation soil sample concentrations in the area of S-2 ESW-1 were not below NMOCD Closure Criteria. So we excavated another foot horizontally from that sidewall. An additional email notification was sent to the NMOCD. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

7-14-23 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 7-14-23	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-2 Bottom	ND	ND	ND	ND	ND	0	--
S-7 Bottom	ND	ND	ND	ND	ND	0	--
S-10 Bottom	ND	ND	ND	12.8	ND	12.8	--
S-12 Bottom	ND	ND	ND	ND	ND	0	--
S-2 ESW 1	ND	ND	ND	ND	ND	0	--

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

These laboratory analytical results showed that the confirmation soil samples indicated concentrations below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. 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.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, NRM2020356139, 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 Tristan Jones by phone at (575)631-6977 or email at chris@paragonenvironmental.net

Respectfully,



Tristan Jones
Project Coordinator
Paragon Environmental, LLC



Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – C-141
- Appendix D – Email Notifications & Photographic Documentation
- Appendix E – Laboratory Reports






Figures:

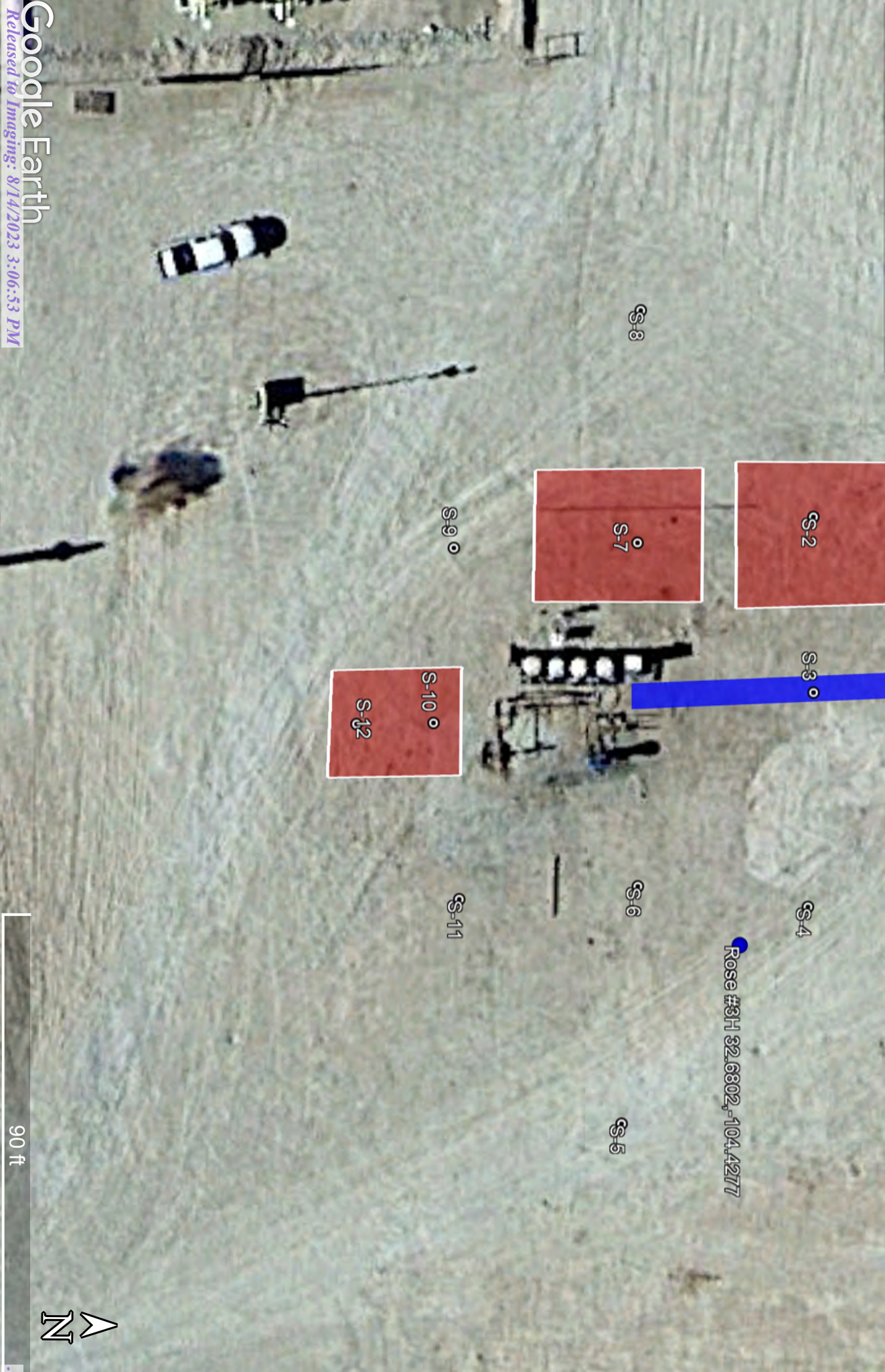
- 1-Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Map

Spur Energy Partners

Rose 3H
API # 30-015-45114
Eddy County, NM
Site Map

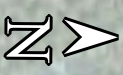
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-  Buried Line
-  c/y
-  Rose #3H 32.6802,-104.4277



Rose #3H 32.6802,-104.4277

90 ft

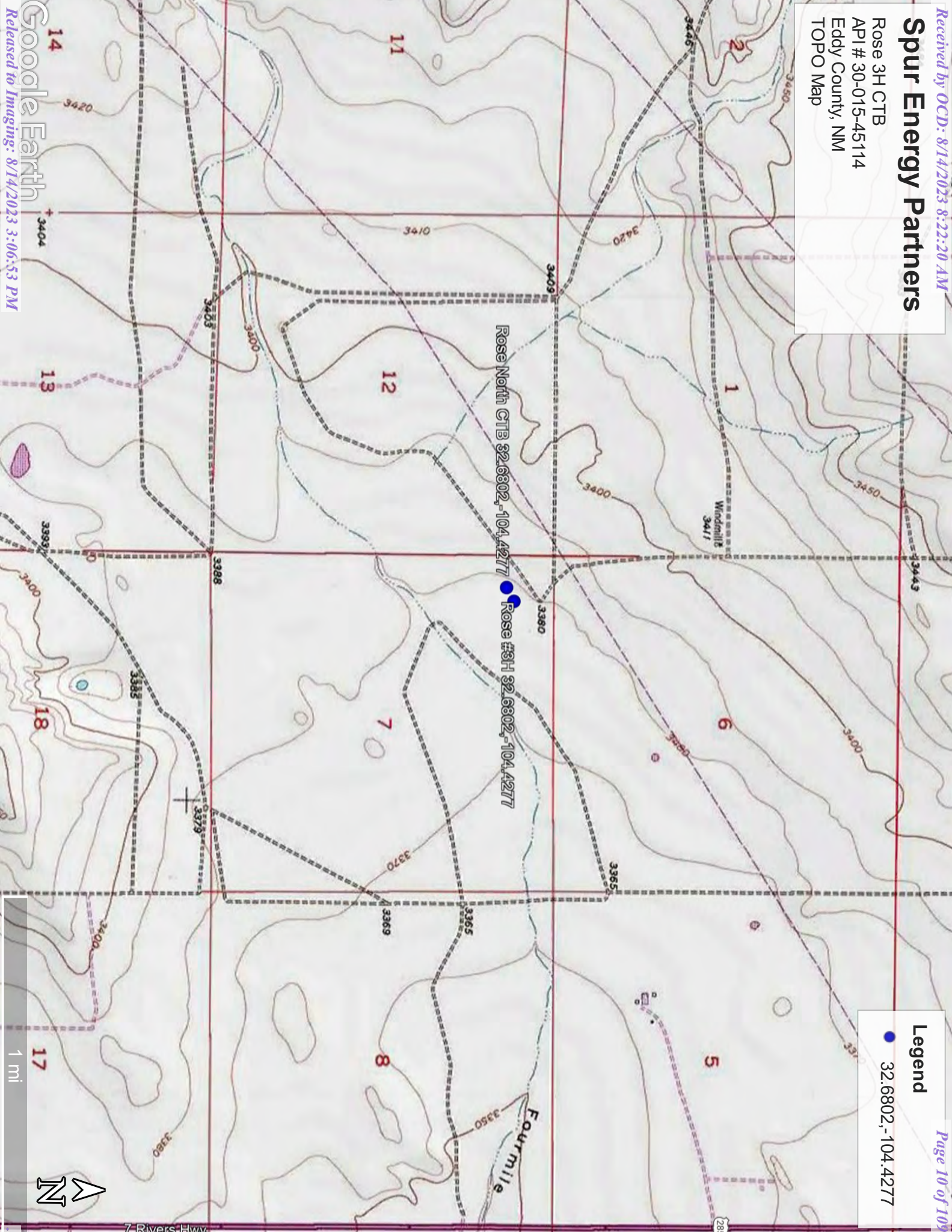


Spur Energy Partners

Rose 3H CTB
API # 30-015-45114
Eddy County, NM
TOPO Map

Legend

- 32.6802,-104.4277



Spur Energy Partners

Rose 3H CTB
API # 30-015-45114
Eddy County, NM
Karst Map

38A

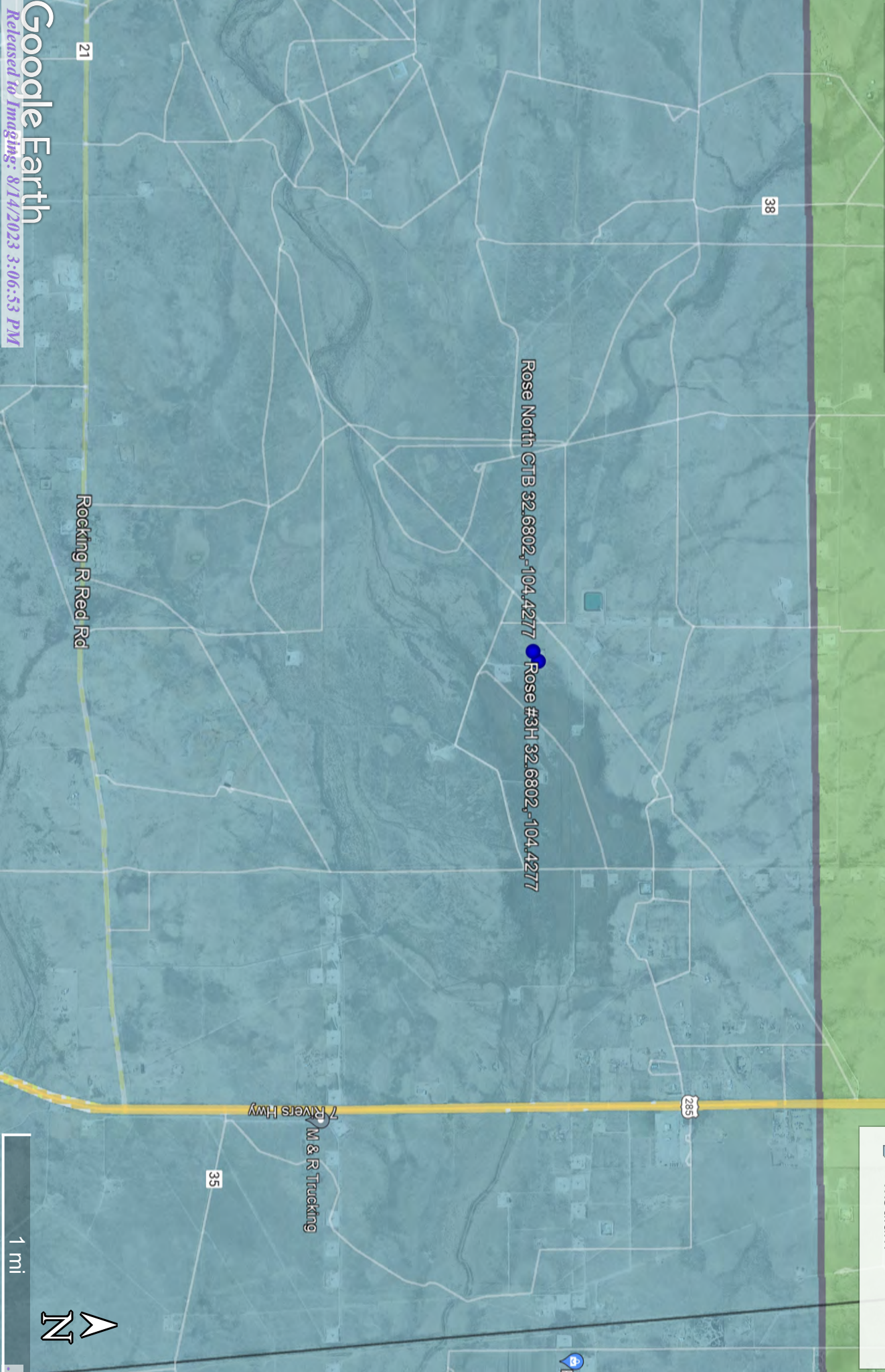
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38

285

Legend

- 32.6802,-104.4277
- High
- Low
- Medium



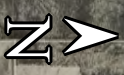
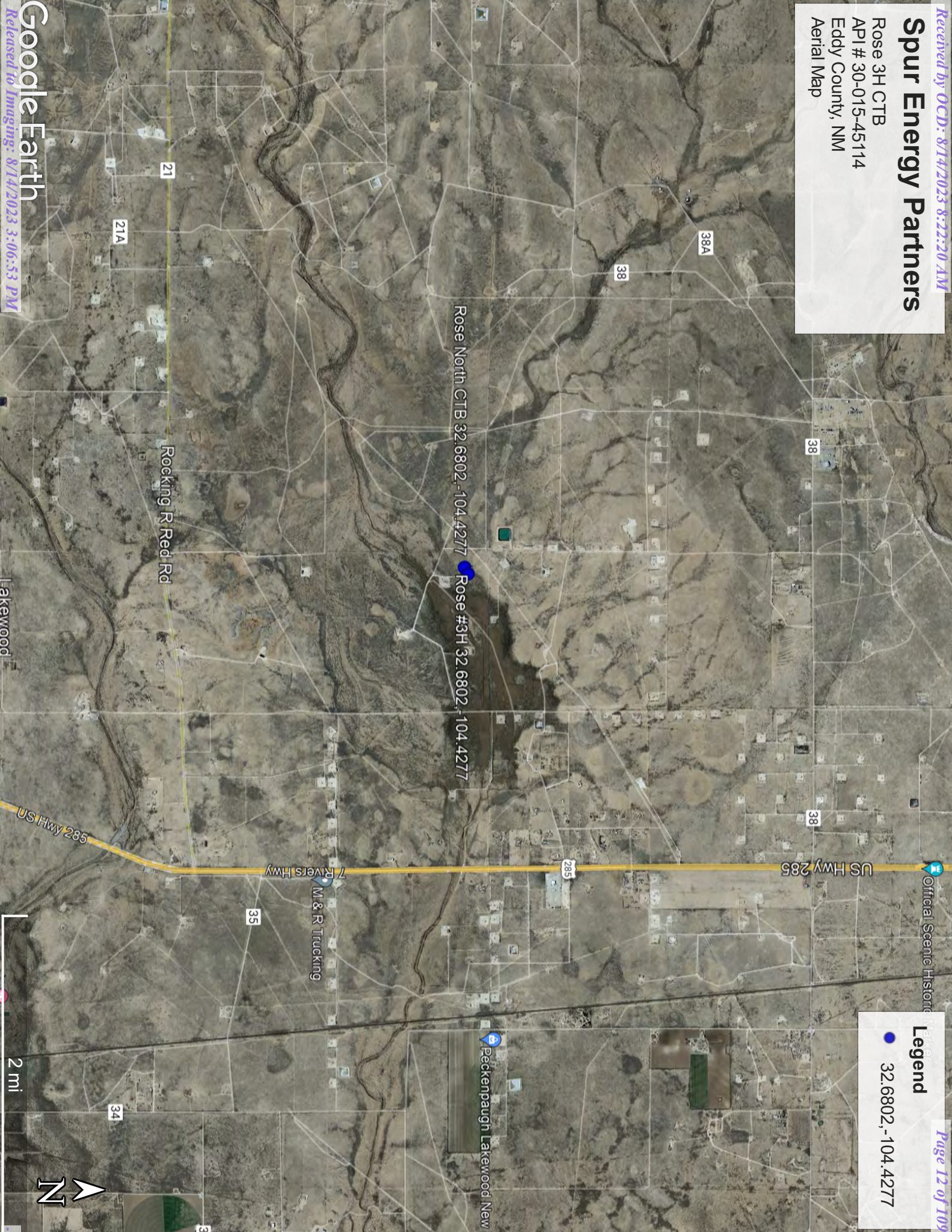
1 mi

Spur Energy Partners

Rose 3H CTB
API # 30-015-45114
Eddy County, NM
Aerial Map





Legend

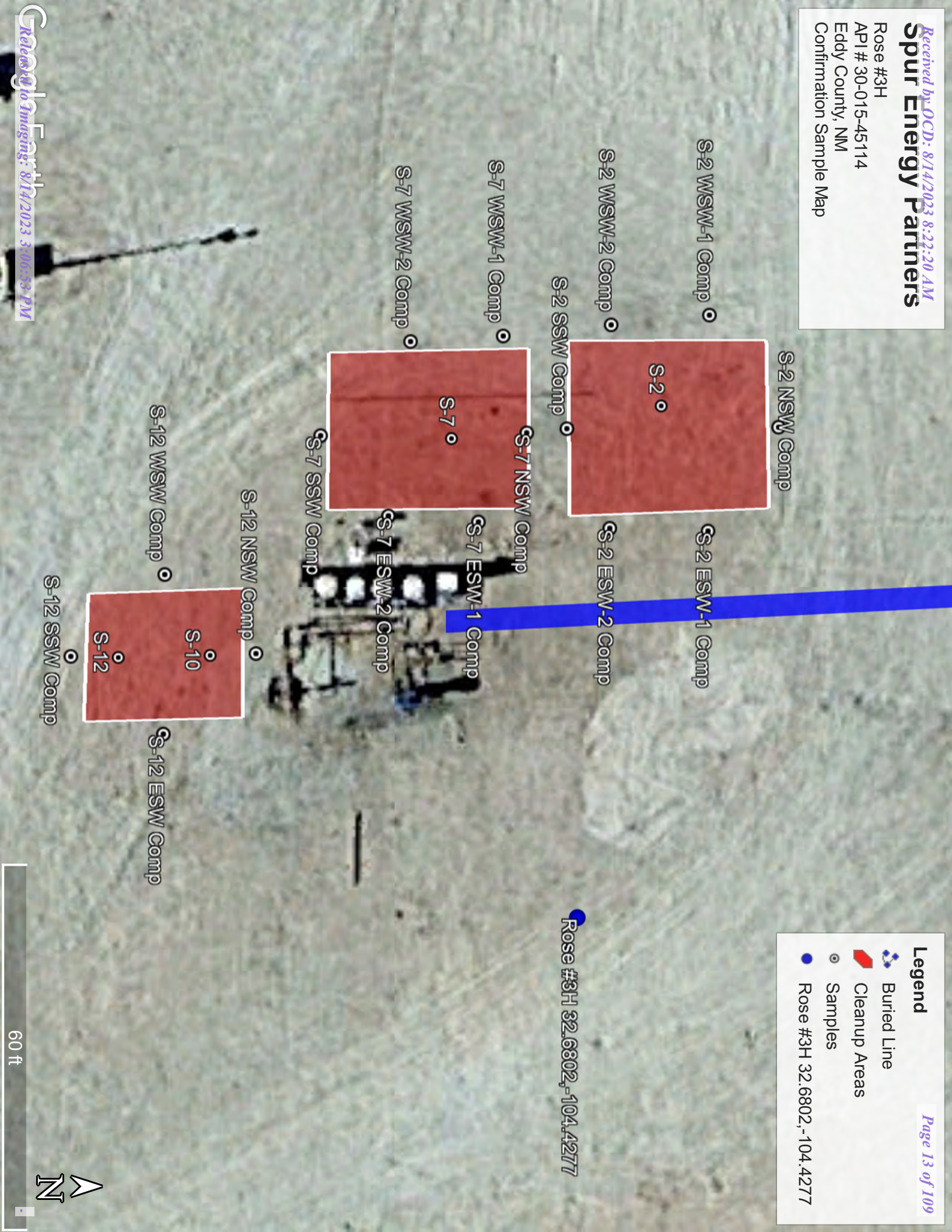
- 32.6802, -104.4277



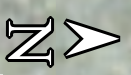
Rose #3H
API # 30-015-45114
Eddy County, NIM
Confirmation Sample Map

Legend

-  Buried Line
-  Cleanup Areas
-  Samples
-  Rose #3H 32.6802,-104.4277



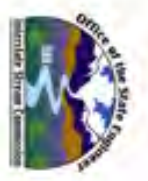
Rose #3H 32.6802,-104.4277





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 (R=POD has been replaced, POD suffix indicates the replaced, POD has been replaced O=orphaned, & no longer serves a C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) water right file.) closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
RA 03983	RA	CH		4	3	01	19S	25E		552457	3616444*		1302	375	100	275	
RA 01343	RA	ED		2	1	1	18	19S	26E	553777	3614525*		1490	440	69	371	

Average Depth to Water: **84 feet**
 Minimum Depth: **69 feet**
 Maximum Depth: **100 feet**

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 553686

Northing (Y): 3616012.453

Radius: 1600

*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.

7/11/23 5:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Pima silt loam, 0 to 1 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

PM—Pima silt loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w56

Elevation: 600 to 4,200 feet

Mean annual precipitation: 8 to 25 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 195 to 290 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Pima and similar soils: 98 percent

Minor components: 2 percent

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

Description of Pima

Setting

Landform: Flood plains, alluvial flats, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Parent material: Alluvium

Typical profile

H1 - 0 to 3 inches: silt loam

H2 - 3 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: RareNone

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): 1

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BC017NM - Bottomland

Map Unit Description: Pima silt loam, 0 to 1 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Dev

Percent of map unit: 1 percent

Ecological site: R070BC017NM - Bottomland

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RE—Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d
Elevation: 1,100 to 5,400 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 180 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent
Upton and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydrologic Soil Group: B
Ecological site: R042CY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042CY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R070BC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022



Legend

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

	Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
--	--

	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

	NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall

	20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
	8 Coastal Transect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature

	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 **7/11/2023 at 7:02 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 unmoderated areas cannot be used for regulatory purposes.



Appendix C:

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nRM2020356139
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Spur Energy Partners	OGRID	328947
Contact Name	Kenny Kidd	Contact Telephone	575-616-5400
Contact email	kkidd@spurepllc.com	Incident # (assigned by OCD)	
Contact mailing address	2407 Pecos Drive Artesia, NM 88210		

Location of Release Source

Latitude 32.680508 Longitude -104.427371
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Rose #003H	Site Type	Production Facility
Date Release Discovered	07/07/2020	API# (if applicable)	30-015-45114

Unit Letter	Section	Township	Range	County
D	07	19S	26E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 3
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release This incident was due to a split in the flowline on the weld at the transition extending from the wellhead. All fluid remained on the pad area of the location.

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Rebecca Pons</u> Title: <u>Project Manager</u> Signature: _____ Date: <u>7/20/2020</u> email: <u>rpons@talonlpe.com</u> Telephone: <u>575-441-0980</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	NRM2020356139
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	__ 50 __ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	NRM2020356139
District RP	
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Application ID	

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

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 8/14/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: Shelly Wells

Date: 8/14/2023

Incident ID	NRM2020356139
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 8/14/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: Shelly Wells Date: 8/14/2023

- Approved
 Approved with Attached Conditions of Approval
 Denied
 Deferral Approved

Signature: _____

Date: _____

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2020356139
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 8/14/23

email: katherine.purvis@spurenergy.com

Telephone: 575-441-8619

OCD Only

Received by: Shelly Wells

Date: 8/14/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Michael Buchanan

Date: 08/14/2023

Printed Name: Mike Buchanan

Title: Environmental Specialist



Appendix D:

Email Notification

Photographic Documentation



Tristan Jones <tristan@paragonenvironmental.net>

Rose 3H

1 message

Angel Pena <angel@paragonenvironmental.net> Tue, Jun 13, 2023 at 11:08 AM
To: "Bratcher, Michael, EMNRD" <mike.bratcher@emnr.d.nm.gov>, Chris Jones <chris@paragonenvironmental.net>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnr.d.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnr.d.nm.gov>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnr.d.nm.gov>, Tristan Jones <tristan@paragonenvironmental.net>

All,

This is to inform you Paragon will be conducting conformation sampling at the Rose 3H for incident NRM2020356139 on 6/16/23 at approximately 900 am. If you have any questions or comments, don't hesitate to contact me.

Thank You,

Angel O. Peña

Field Supervisor

1601 N. Turner Ste. 500

Hobbs, NM 88240

Angel@paragonenvironmental.net

575-605-0773 cell

 A picture containing text Description automatically generated



Tristan Jones <tristan@paragonenvironmental.net>

Confirmation Sample Notification

1 message

Tristan Jones <tristan@paragonenvironmental.net> Wed, Jul 12, 2023 at 9:32 AM
 To: mike.bratcher@state.nm.us, Robert.Hamlet@state.nm.us, Chris Jones <chris@paragonenvironmental.net>, boulder@spurenergy.com, Katherine Purvis
 <katherine.purvis@spurenergy.com>, Angel Pena <angel@paragonenvironmental.net>

All,

Good morning! This is to inform you all that we will be collecting confirmation samples at the Rose #3H for the incident **NRM2020356139** on 07-14-23 at 10:00 AM. If you have any questions or concerns, please let me know.

Thank you,

Tristan Jones
 Project Coordinator
 1601 N. Turner Ste. 500
 Hobbs, NM 88240
tristan@paragonenvironmental.net
 575-318-6841



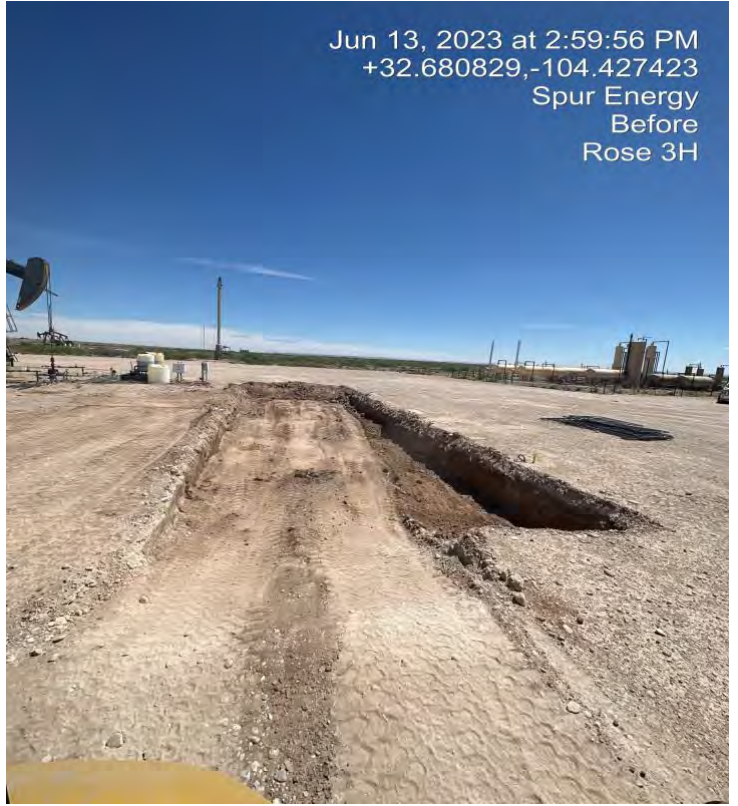


Photographic Documentation

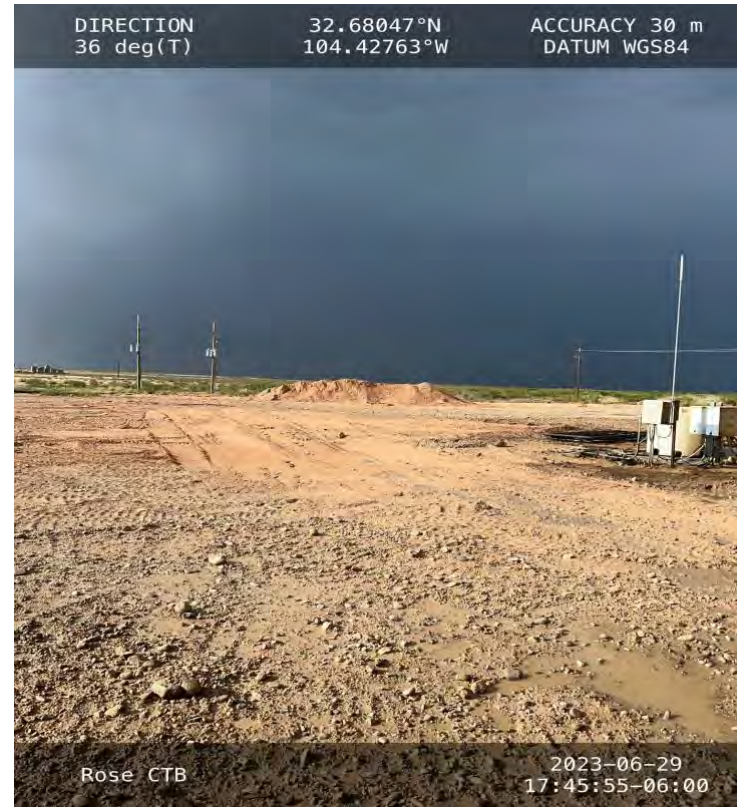
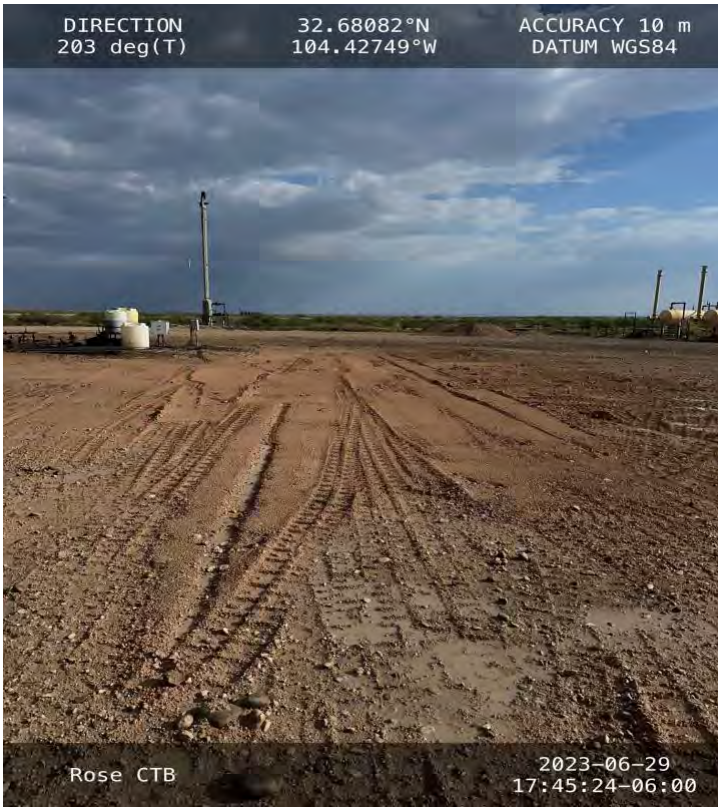
Before Remediation



During Remediation



Post Remediation





Appendix E:
Laboratory Results



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

June 22, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ROSE 3H

Enclosed are the results of analyses for samples received by the laboratory on 06/16/23 16:53.

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

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
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 06/16/2023
Reported: 06/22/2023
Project Name: ROSE 3H
Project Number: NOT GIVEN
Project Location: SPUR - RURAL EDDY

Sampling Date: 06/16/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 NSW COMP (H233144-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	1.95	97.6	2.00	1.41	
Toluene*	<0.050	0.050	06/21/2023	ND	2.01	100	2.00	0.591	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.18	109	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.49	108	6.00	1.39	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 06/16/2023
Reported: 06/22/2023
Project Name: ROSE 3H
Project Number: NOT GIVEN
Project Location: SPUR - RURAL EDDY

Sampling Date: 06/16/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 ESW - 1 COMP (H233144-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	1.95	97.6	2.00	1.41	
Toluene*	<0.050	0.050	06/21/2023	ND	2.01	100	2.00	0.591	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.18	109	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.49	108	6.00	1.39	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	384	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 06/16/2023
Reported: 06/22/2023
Project Name: ROSE 3H
Project Number: NOT GIVEN
Project Location: SPUR - RURAL EDDY

Sampling Date: 06/16/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 ESW - 2 COMP (H233144-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	1.95	97.6	2.00	1.41	
Toluene*	<0.050	0.050	06/21/2023	ND	2.01	100	2.00	0.591	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.18	109	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.49	108	6.00	1.39	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 WSW - 1 COMP (H233144-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	1.95	97.6	2.00	1.41	
Toluene*	<0.050	0.050	06/21/2023	ND	2.01	100	2.00	0.591	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.18	109	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.49	108	6.00	1.39	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 WSW - 2 COMP (H233144-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	1.95	97.6	2.00	1.41	
Toluene*	<0.050	0.050	06/21/2023	ND	2.01	100	2.00	0.591	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.18	109	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.49	108	6.00	1.39	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 ESW - 1 COMP (H233144-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	1.95	97.6	2.00	1.41	
Toluene*	<0.050	0.050	06/21/2023	ND	2.01	100	2.00	0.591	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.18	109	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.49	108	6.00	1.39	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 06/16/2023
Reported: 06/22/2023
Project Name: ROSE 3H
Project Number: NOT GIVEN
Project Location: SPUR - RURAL EDDY

Sampling Date: 06/16/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 7 ESW - 2 COMP (H233144-07)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 SSW COMP (H233144-08)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 WSW - 1 COMP (H233144-09)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/20/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 WSW - 2 COMP (H233144-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/20/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 12 NSW COMP (H233144-11)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 12 ESW COMP (H233144-12)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 06/16/2023
Reported: 06/22/2023
Project Name: ROSE 3H
Project Number: NOT GIVEN
Project Location: SPUR - RURAL EDDY

Sampling Date: 06/16/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 12 SSW COMP (H233144-13)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	06/16/2023	Sampling Date:	06/16/2023
Reported:	06/22/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 12 WSW COMP (H233144-14)

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	06/21/2023	ND	1.85	92.5	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2023	ND	1.85	92.6	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	1.90	94.8	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	5.79	96.5	6.00	1.73	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2023	ND	166	83.0	200	2.09	
DRO >C10-C28*	<10.0	10.0	06/21/2023	ND	161	80.6	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	06/21/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		BILL TO		ANALYSIS REQUEST		
Project Manager: Chris Jones		P.O. #:				
Address: 1601 N. Turner St., Ste 500		Company: <i>SP&E</i>				
City: Hobbs		State: NM zip: 88240				
Phone #: 575-964-7814		Fax #:				
Project #:		Project Owner: <i>SP&E</i>				
Project Name: <i>Rose Hill</i>		City:				
Project Location: <i>East Marland</i>		State:				
Sampler Name: <i>Shirley Winkler</i>		Phone #:				
FOR LAB USE ONLY		Fax #:				
Lab I.D. <i>H233144</i>	Sample I.D. <i>1 S-2 NSW Group</i>	(G)RAB OR (C)OMP.		DATE	<i>06/15</i>	
		# CONTAINERS		TIME		<i>TPH Ext.</i>
		GROUNDWATER				<i>BTEX</i>
		WASTEWATER				<i>Chlorides</i>
		SOIL				
		OIL				
		SLUDGE				
		OTHER :				
		ACID/BASE:				
		ICE / COOL				
OTHER :						
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Relinquished By: <i>[Signature]</i>		Date: <i>06/15/23</i>		Received By: <i>[Signature]</i>		
Relinquished By: <i>[Signature]</i>		Date: <i>06/15/23</i>		Received By: <i>[Signature]</i>		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>58c/5.2c</i>		Sample Condition <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>		
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:				
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:				
REMARKS:						

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental Project Manager: Chris Jones Address: 1601 N. Turner St., Ste 500 City: Hobbs State: NM zip: 88240 Phone #: 575-964-7814 Fax #: _____ Project #: _____ Project Owner: Spur Project Name: Zgas #8H Project Location: Early County Sampler Name: Jeremy Warner FOR LAB USE ONLY		BILL TO P.O. #: _____ Company: Spur Attn: Jeremy Warner Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		
Lab I.D. Sample I.D. H233144 11 S-12 N5W Comp 12 S-12 E5W Comp 13 S-12 S5W Comp 14 S-12 W5W Comp	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING	DATE TIME	TPH Est. BTEX Chlorides
Relinquished By: RZ.MK Date: 08/16/23 Time: 16:55 Received By: [Signature] Date: _____ Time: _____		REMARKS: Final results to Chris Jones		

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



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

July 24, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ROSE 3H

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 12:00.

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

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
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/18/2023	Sampling Date:	07/14/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NAPP2317048587	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 1 (H233721-01)

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	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	11.2	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/18/2023	Sampling Date:	07/14/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NAPP2317048587	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 (H233721-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/18/2023	Sampling Date:	07/14/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NAPP2317048587	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 (H233721-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 07/18/2023
Reported: 07/24/2023
Project Name: ROSE 3H
Project Number: NAPP2317048587
Project Location: SPUR - RURAL EDDY

Sampling Date: 07/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 (H233721-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	16.8	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/18/2023	Sampling Date:	07/14/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NAPP2317048587	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 5 (H233721-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	12.8	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/18/2023	Sampling Date:	07/14/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NAPP2317048587	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 6 (H233721-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	13.4	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received: 07/18/2023
Reported: 07/24/2023
Project Name: ROSE 3H
Project Number: NAPP2317048587
Project Location: SPUR - RURAL EDDY

Sampling Date: 07/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 7 (H233721-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	14.3	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/18/2023	Sampling Date:	07/14/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NAPP2317048587	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 8 (H233721-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2023	ND	2.20	110	2.00	3.31	
Toluene*	<0.050	0.050	07/23/2023	ND	2.13	107	2.00	3.64	
Ethylbenzene*	<0.050	0.050	07/23/2023	ND	2.06	103	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/23/2023	ND	6.23	104	6.00	3.69	
Total BTEX	<0.300	0.300	07/23/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/21/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	186	93.0	200	3.17	
DRO >C10-C28*	15.6	10.0	07/21/2023	ND	191	95.5	200	3.35	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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
 Project Manager: Chris Jones
 Address: 1601 N. Turner St., Ste 500
 City: Hobbs State: NM zip: 88240
 Phone #: 575-964-7814 Fax #:
 Project #: 111131708587 Project Owner: SPUR Energy
 Project Name: Port 3/4
 Project Location: hura, Eddy
 Sampler Name: Angel O. Pena
 P.O. #: Company: SPUR Energy
 Attn: Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HR33721		✓										7/14		TPH	
	1													Chlorides	
	2													BTEX	
	3														
	4														
	5														
	6														
	7														
	8														

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Relinquished By: [Signature]
 Date: 7-18-23
 Time: 1:00
 Received By: [Signature]
 Date: [Blank]
 Time: [Blank]

Delivered By: (Circle One) 3. 10: [Signature]
 Sampler - UPS - Bus - Other: #140
 Sample Condition: Cool Intact
 Checked By: [Signature]

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

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



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

January 03, 2023

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: ROSE 3H

Enclosed are the results of analyses for samples received by the laboratory on 12/29/22 16:54.

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

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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 1 SURFACE (H226108-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.99	99.4	2.00	7.55	
Toluene*	<0.050	0.050	12/30/2022	ND	2.09	104	2.00	9.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.02	101	2.00	11.3	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.21	104	6.00	10.9	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/30/2022	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	12/30/2022	ND	198	99.2	200	0.156	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 SURFACE (H226108-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.99	99.4	2.00	7.55	
Toluene*	<0.050	0.050	12/30/2022	ND	2.09	104	2.00	9.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.02	101	2.00	11.3	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.21	104	6.00	10.9	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	12/30/2022	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	12/30/2022	ND	198	99.2	200	0.156	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 1' (H226108-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	1.99	99.4	2.00	7.55		
Toluene*	<0.050	0.050	12/30/2022	ND	2.09	104	2.00	9.34		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.02	101	2.00	11.3		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.21	104	6.00	10.9		
Total BTEX	<0.300	0.300	12/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	12/30/2022	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	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 2' (H226108-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 2 3' (H226108-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 2 4' (H226108-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 2 5' (H226108-07)

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	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 2 6' (H226108-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/30/2022	ND	416	104	400	0.00	

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 SURFACE (H226108-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	1.99	99.4	2.00	7.55		
Toluene*	<0.050	0.050	12/30/2022	ND	2.09	104	2.00	9.34		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.02	101	2.00	11.3		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.21	104	6.00	10.9		
Total BTEX	<0.300	0.300	12/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/30/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 SURFACE (H226108-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	1.99	99.4	2.00	7.55		
Toluene*	<0.050	0.050	12/30/2022	ND	2.09	104	2.00	9.34		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.02	101	2.00	11.3		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.21	104	6.00	10.9		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	304	16.0	12/30/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 93.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 1' (H226108-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	1.99	99.4	2.00	7.55		
Toluene*	<0.050	0.050	12/30/2022	ND	2.09	104	2.00	9.34		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.02	101	2.00	11.3		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.21	104	6.00	10.9		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	128	16.0	12/30/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.0 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 2' (H226108-12)

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	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 4 3' (H226108-13)

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	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 4 4' (H226108-14)

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	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 4 5' (H226108-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 4 6' (H226108-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	416	104	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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 5 SURFACE (H226108-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	1.99	99.4	2.00	7.55		
Toluene*	<0.050	0.050	12/30/2022	ND	2.09	104	2.00	9.34		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.02	101	2.00	11.3		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.21	104	6.00	10.9		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	12/30/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 5 1' (H226108-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92	
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/30/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.4 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 5 2' (H226108-19)

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	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 5 3' (H226108-20)

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	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 5 4' (H226108-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 5 5' (H226108-22)

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	12/30/2022	ND	416	104	400	0.00	

Sample ID: S - 5 6' (H226108-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	416	104	400	0.00	

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 6 SURFACE (H226108-24)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92		
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/30/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	30.4	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 71.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 6 1' (H226108-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92	
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75	
Total BTEX	<0.300	0.300	12/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/30/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.0 % 46.3-178

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 6 2' (H226108-26)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 6 3' (H226108-27)

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	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 6 4' (H226108-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 6 5' (H226108-29)

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	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 6 6' (H226108-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	400	100	400	7.69	

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 SURFACE (H226108-31)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92		
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	16000	16.0	12/30/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	80.7	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	24.5	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 1' (H226108-32)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92		
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	3600	16.0	12/30/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	198	99.2	200	0.156		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	0.462		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 2' (H226108-33)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 7 3' (H226108-34)

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	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 7 4' (H226108-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 7 5' (H226108-36)

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	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 7 6' (H226108-37)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	400	100	400	7.69	

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 8 SURFACE (H226108-38)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92		
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/30/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	214	107	200	2.52		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 8 1' (H226108-39)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92		
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	12/30/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	214	107	200	2.52		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 8 2' (H226108-40)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 8 3' (H226108-41)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 8 4' (H226108-42)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 8 5' (H226108-43)

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	12/30/2022	ND	400	100	400	7.69	

Sample ID: S - 8 6' (H226108-44)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/30/2022	ND	400	100	400	0.00	

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 SURFACE (H226108-45)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.13	107	2.00	9.92		
Toluene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	9.55		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.11	105	2.00	9.69		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.35	106	6.00	9.75		
Total BTEX	<0.300	0.300	12/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/30/2022	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	12/30/2022	ND	214	107	200	2.52		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 1' (H226108-46)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.95	97.5	2.00	5.25	
Toluene*	<0.050	0.050	12/30/2022	ND	2.05	103	2.00	5.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	1.96	97.9	2.00	4.85	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	5.99	99.8	6.00	5.81	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/30/2022	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	12/30/2022	ND	214	107	200	2.52	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 2' (H226108-47)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 9 3' (H226108-48)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 9 4' (H226108-49)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 9 5' (H226108-50)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 9 6' (H226108-51)

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	12/30/2022	ND	400	100	400	0.00	

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 SURFACE (H226108-52)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.95	97.5	2.00	5.25	
Toluene*	<0.050	0.050	12/30/2022	ND	2.05	103	2.00	5.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	1.96	97.9	2.00	4.85	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	5.99	99.8	6.00	5.81	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/30/2022	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	12/30/2022	ND	214	107	200	2.52	
DRO >C10-C28*	137	10.0	12/30/2022	ND	194	96.9	200	2.78	
EXT DRO >C28-C36	40.6	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

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Analytical Results For:

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

Received: 12/29/2022
 Reported: 01/03/2023
 Project Name: ROSE 3H
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 10 1' (H226108-53)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.95	97.5	2.00	5.25	
Toluene*	<0.050	0.050	12/30/2022	ND	2.05	103	2.00	5.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	1.96	97.9	2.00	4.85	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	5.99	99.8	6.00	5.81	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/30/2022	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	12/30/2022	ND	214	107	200	2.52	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.8 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 2' (H226108-54)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 10 3' (H226108-55)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 10 4' (H226108-56)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 10 5' (H226108-57)

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	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 10 6' (H226108-58)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/30/2022	ND	400	100	400	0.00	

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 11 SURFACE (H226108-59)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	1.95	97.5	2.00	5.25		
Toluene*	<0.050	0.050	12/30/2022	ND	2.05	103	2.00	5.34		
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	1.96	97.9	2.00	4.85		
Total Xylenes*	<0.150	0.150	12/30/2022	ND	5.99	99.8	6.00	5.81		
Total BTEX	<0.300	0.300	12/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/30/2022	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	12/30/2022	ND	214	107	200	2.52		
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND						

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 11 1' (H226108-60)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.95	97.5	2.00	5.25	
Toluene*	<0.050	0.050	12/30/2022	ND	2.05	103	2.00	5.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	1.96	97.9	2.00	4.85	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	5.99	99.8	6.00	5.81	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/30/2022	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	12/30/2022	ND	214	107	200	2.52	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 11 2' (H226108-61)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 11 3' (H226108-62)

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	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 11 4' (H226108-63)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	400	100	400	0.00	

Sample ID: S - 11 5' (H226108-64)

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	01/03/2023	ND	416	104	400	0.00	QM-07

Sample ID: S - 11 6' (H226108-65)

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	01/03/2023	ND	416	104	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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 12 SURFACE (H226108-66)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.95	97.5	2.00	5.25	
Toluene*	<0.050	0.050	12/30/2022	ND	2.05	103	2.00	5.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	1.96	97.9	2.00	4.85	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	5.99	99.8	6.00	5.81	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	01/03/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	214	107	200	2.52	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	194	96.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.7 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 12 1' (H226108-67)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	1.95	97.5	2.00	5.25	
Toluene*	<0.050	0.050	12/30/2022	ND	2.05	103	2.00	5.34	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	1.96	97.9	2.00	4.85	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	5.99	99.8	6.00	5.81	
Total BTEX	<0.300	0.300	12/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/03/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2022	ND	214	107	200	2.52	
DRO >C10-C28*	36.4	10.0	12/30/2022	ND	194	96.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.8 % 46.3-178

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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:	12/29/2022	Sampling Date:	12/29/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	ROSE 3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 12 2' (H226108-68)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/03/2023	ND	416	104	400	0.00	

Sample ID: S - 12 3' (H226108-69)

Chloride, SM4500CI-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	01/03/2023	ND	416	104	400	0.00	

Sample ID: S - 12 4' (H226108-70)

Chloride, SM4500CI-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	01/03/2023	ND	416	104	400	0.00	

Sample ID: S - 12 5' (H226108-71)

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	01/03/2023	ND	416	104	400	0.00	

Sample ID: S - 12 6' (H226108-72)

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	01/03/2023	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company: *Sfor*

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name: *Rose 314*

Project Location: *River Eddy*

Sampler Name: *April A. Sefley*

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company: *Sfor*

Attn:

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. *H241108*

Sample I.D.	Sample Description	DATE	TIME
1	5-1 Surface	5-1	
2	5-2 Surface	5-2	
3	5-2 1'	5-2	
4	5-2 2'	5-2	
5	5-2 3'	5-2	
6	5-2 4'	5-2	
7	5-2 5'	5-2	
8	5-2 6'	5-2	
9	5-3 Surface	5-3	
10	5-4 Surface	5-4	

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MATRIX	PRESERV	SAMPLING
(G)RAB OR (C)OMP		
# CONTAINERS		
GROUNDWATER		
WASTEWATER		
SOIL		
OIL		
SLUDGE		
OTHER		
ACID/BASE		
ICE / COOL		
OTHER		

ANALYSIS REQUEST	TPH	BTEX	Chlorides						

Relinquished By: *April Sefley*

Date: *10/24/2023*

Received By: *Sfor*

Time:

Delivered By: (Circle One)

UPS Bus Other

Sample Condition

CHECKED BY: *Sfor*

REMARKS:

Surface 1' - TPH, BTEX, Chlorides
The rest ONLY Chlorides

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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
Project Manager: Cason Spurlock

Address: 5002 Carriage Rd
City: Hobbs State: NM zip: 88242

Phone #: 575-631-6977 Fax #: Project Owner: *SPV*

Project Name: *Rose 314*
Project Location: *Rural - Eddy*

Sampler Name: *Anal & Sevens*

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME
<i>H2010108</i>	<i>1'</i>		<i>1</i>				<i>8/14</i>	
	<i>2'</i>							
	<i>3'</i>							
	<i>4'</i>							
	<i>5'</i>							
	<i>6'</i>							
	<i>7'</i>							
	<i>8'</i>							
	<i>9'</i>							
	<i>10'</i>							
	<i>11'</i>							
	<i>12'</i>							
	<i>13'</i>							
	<i>14'</i>							
	<i>15'</i>							
	<i>16'</i>							
	<i>17'</i>							
	<i>18'</i>							
	<i>19'</i>							
	<i>20'</i>							

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Relinquished By: *[Signature]*

Date: *8/14/23*
Time: *10:54*

Received By: *[Signature]*

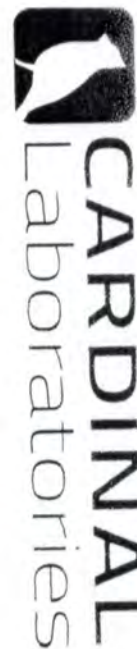
Delivered By: (Circle One) *4.93c - 0.0c*
Sampler - UPS - Bus - Other: *4.3c #113*

Sample Condition: Intact
 Broken
Checked By: *[Signature]*

Fax Result: Yes No Add'l Fax #:

REMARKS: *Surface & 1' - Test ALL
The Best Chlorides*

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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
 Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name: Rose 314

Project Location: Royal Eds

Sampler Name: Axel & Jeremy

State: NM Zip: 88242

Fax #:

Project Owner: SW Energy

P.O. #:
 Company: SW Energy
 Attn:
 Address:
 City:
 State:
 Phone #:
 Zip:
 Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME
HS20108	5-7 surface		1				12/19	
31	5-7 1'							
33	5-7 2'							
34	5-7 3'							
35	5-7 4'							
36	5-7 5'							
37	5-7 6'							
38	5-8 surface							
39	5-8 1'							
40	5-8 2'							

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Relinquished By:

Cheryl D. Kein

Date:

12/19/2019

Received By:

Spoodriqner

Time:

Delivered By: (Circle One) 49:10-0:00

Sampler - UPS - Bus - Other: A.3: #113

Sample Condition
 COO
 Yes
 No

CHECKED BY: SR

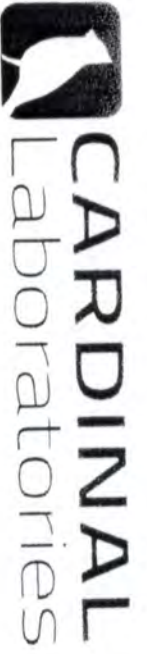
Phone Result:

Surface & 1'-Test All

REMARKS:

The Rest - Chlorides

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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
 Project Manager: Cason Spurlock
 Address: 5002 Carriage Rd
 City: Hobbs State: NM Zip: 88242

Phone #: 575-631-6977 Fax #: Project Owner: SPV

Project #: Project Name: Nose 314

Project Location: Riva 1 Eddy

Sampler Name: Area 1 Eddy

P.O. # Company: SPV

Address: City: State: Zip:

Phone #: Fax #:

Lab I.D.	Sample I.D.	FOR LAB USE ONLY	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS REQUEST	
								TPH	BTEX
120108	5-8 31		(G)RAB OR (C)OMP			12/29		11	Chlorides
41	5-8 41		# CONTAINERS						
43	5-8 51		GROUNDWATER						
44	5-8 61		WASTEWATER						
45	5-8 61		SOIL						
46	5-8 61		OIL						
47	5-8 61		SLUDGE						
48	5-8 61		OTHER						
49	5-8 61		ACID/BASE						
50	5-8 61		ICE / COOL						
			OTHER						

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Relinquished By: *[Signature]*

Received By: *[Signature]*

REMARKS:
 Surface - 1' - Test All
 The Rest - Chlorides

Delivered By: (Circle One) UPS - Bus - Other: 4.9g @ 0.00c
 Sample Condition: Cool Intact Yes/No
 CHECKED BY: *[Signature]*

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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

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd State: NM zip: 88242

City: Hobbs

Phone #: 575-631-6977 Fax #:

Project #: Project Owner: Spur

Project Name: Rose 3H

Project Location: Ruel Eddy

Sampler Name: Miguel E. Ramirez

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS REQUEST
122108	5-96'	4		GROUNDWATER			12/19		PH
	5-10 1'			WASTEWATER					135X
	5-10 2'			SOIL					Chlorides
	5-10 3'			OIL					
	5-10 4'			SLUDGE					
	5-10 5'			OTHER					
	5-10 6'			ACID/BASE:					
	5-11 Surface			IGL / COOL					
	5-11 1'			OTHER					

REMARKS:

Surface & 1'-Test All
 The Rest - Chlorides

Relinquished By: *[Signature]*

Received By: *[Signature]*

Date: 12/19/23

Time: 10:54

CHECKED BY: *[Signature]*

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 491C-0

4.3: #113

Sample Condition: Cool Intact Yes No

4.3: #113

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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
Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name: Rose 3H

Project Location: Aural Eddy

Sampler Name: Chapel & Jenkins

State: NM zip: 88242

Project Owner: Spur

P.O. #:

Company: Spur

Attn:

Address:

City:

State:

Phone #:

Fax #:

PRESERV

SAMPLING

MATRIX

(G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER
ACID/BASE
ICE / COOL
OTHER

DATE TIME

12/19

BTEX
Chlorides
TPH

Lab I.D. Sample I.D.

HEADERS

u1 5-11 2'
u2 5-11 3'
u3 5-11 4'
u4 5-11 5'
u5 5-11 8'
u6 5-12 surface
u7 5-12 1'
u8 5-12 2'
u9 5-12 3'
u10 5-12 4'

Relinquished By: *[Signature]*

Date Received By: *[Signature]*

Time: 10:54

REMARKS:
Surface & 1'-Test Everything
The Rest - Chlorides

Delivered By: (Circle One)

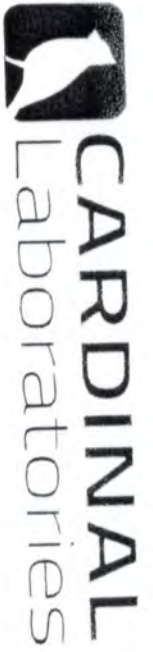
Sampler - UPS - Bus - Other:

49: J.C.O. 4:30 #113

CHC-EDDY

SR

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

HB210108
71
72

5-12 51
5-12 61

(G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
MATRIX
SOIL
OIL
SLUDGE
OTHER
PRESERV
ACID/BASE
ICE / COOL
OTHER

DATE
TIME
12-24
1

BILL TO

ANALYSIS REQUEST

P.O. #

Company

Attn:

Address:

City:

State:

Phone #:

Fax #:

SPUR

Chlorides

Relinquished By: *[Signature]*

Date: 5/12/08
Time: 10:54

Received By: *[Signature]*

Spurlock

ONLY Chlorides

Delivered By: (Circle One)

Sampler - UPS - Bus - Other

4.9: 0-0 U
4.3: #113

SPUR

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National Flood Hazard Layer FIRMette



104°25'57"W 32°41'5"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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 7/11/2023 at 7:02 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.

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 251588

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 251588
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Dear, Mr. Kenny Kidd, We have received your closure report and final C-141 for Incident # NRM2020356139, Rose#3H, thank you. This closure is approved. Please let me know if you have any further questions. Regards,	8/14/2023