

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>75.000</u>	<u>45.000</u>	<u>1.500</u>
Cubic Feet Impacted		<u>421.875</u>
Barrels		<u>75.13</u>
Soil Type		Clay/Sand
Bbls Assuming 100% Saturation		<u>11.27</u>
Saturation	Fluid present when squeezed	
Estimated Barrels Released		5.70000

Instructions
1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.
(For data gathering instructions see appendix tab)

Measurements	
Length (ft)	75
Width (ft)	45
Depth (in)	1.500









May 11, 2024

NMOCD District 2
Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Crisha Morgan
Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Request
Federal 18 #4
API No. 30-025-01671
GPS: Latitude 32.6620674 Longitude -103.6959839
UL "H", Sec. 18, T19S, R33E
Lea County, NM
NMOCD Ref. No. nAPP2101065907

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 Fed 18 #4 (Fed). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	6 bbls
		Volume Recovered:	0 bbls
Source of Release:	Well Head	Date of Release:	8/01/20
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:	Federal	Mineral Owner:	Federal
SWEDGE AT WELLHEAD ABOVE THE MASTER VALVE HAD A PINHOLE LEAK. CAUSING A MIST ON LOCATION A THE PASTURE AREA.			

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

REGULATORY FRAMEWORK & SITE CHARACTERIZATION

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

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

Depth to groundwater information is provided in Appendix A.

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

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

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (QEP). The soil in this area is made up of Pyote and Maljamar Fine Sands, with 0 to 3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained.

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

INITIAL SITE ASSESSMENT

On March 1, 2021, another company conducted an initial site assessment. During this assessment, they gathered samples in the area where the spill had come out of the transfer line and ran down into the pasture. Twelve (12) soil samples were collected in this area. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

3-1-21 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 3-1-21		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	0-6"	ND	ND	ND	20.3	15.5	35.8	32000
S-2	0-6"	ND	ND	ND	276	159	435	20000
S-3	0-6"	ND	ND	ND	127	74.3	201.3	96
S-4	0-6"	ND	ND	ND	27.8	21.8	49.6	32
S-5	0-6"	ND	ND	ND	107	96.4	203.4	ND
S-6	0-6"	ND	ND	ND	ND	ND	ND	48
S-7	0-6"	ND	ND	ND	11.9	ND	11.9	96
S-8	0-6"	ND	ND	ND	92.6	55	157.6	400
S-9	0-6"	ND	ND	ND	51.1	25.3	76.4	1760
BG-1	0-6"	ND	ND	ND	ND	ND	ND	16
BG-2	0-6"	ND	ND	ND	ND	ND	ND	ND
BG-3	0-6"	ND	ND	ND	ND	ND	ND	ND

(ND) Analyte Not Detected

A Site Map is provided in Figure #1.

REMEDIAL ACTIVITIES

The other company had cleaned this spill up using chemicals. The NMOCD rejected the submitted closure due to chemical remediation not being approved, so knowing this, we decided to move forward with digging out and hauling off the old spill area. On March 18th, 2024, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following details the remedial activities we conducted to advance the Release Site toward an NMOCD-approved site closure.

Our remediation began by excavating in the areas from S-1 to S-9 down to 1' BGS. The spill area was approximately 4400 sq.ft. 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.

4-9-24 Confirmation Samples

NMDCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 4-9-24		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
ESW-1	1'	ND	ND	ND	38.4	33.2	71.6	368
ESW-2	1'	ND	ND	ND	26.3	25.8	26.3	672
NSW-1	1'	ND	ND	ND	94.1	82.2	176.3	368
NSW-2	1'	ND	ND	ND	98.8	79	177.8	368
SSW-1	1'	ND	ND	ND	66	49.2	115.2	624
WSW-1	1'	ND	ND	ND	62.4	67.9	130.3	544
S-1	1'	ND	ND	ND	30.4	21.2	51.6	128
S-2	1'	ND	ND	ND	ND	ND	0	160
S-3	1'	ND	ND	ND	ND	ND	0	400
S-4	1'	ND	ND	ND	ND	ND	0	448
S-5	1'	ND	ND	ND	14.8	ND	14.8	112
S-6	1'	ND	ND	ND	ND	ND	0	272
S-7	1'	ND	ND	ND	68.9	62	130.9	480
S-8	1'	ND	ND	ND	ND	ND	0	608
S-9	1'	ND	ND	ND	24.7	19.8	44.5	144
S-10	1'	ND	ND	ND	ND	ND	0	208
S-11	1'	ND	ND	ND	ND	ND	0	368
S-12	1'	ND	ND	ND	72.7	76.3	149	432
S-13	1'	ND	ND	ND	40.6	32.5	73.1	112
S-14	1'	ND	ND	ND	ND	ND	0	272
S-15	1'	ND	ND	ND	ND	ND	0	256
S-16	1'	ND	ND	ND	ND	ND	0	400
S-17	1'	ND	ND	ND	ND	ND	0	160
S-18	1'	ND	ND	ND	ND	ND	0	224
S-19	1'	ND	ND	ND	ND	ND	0	416
S-20	1'	ND	ND	ND	ND	ND	0	480
S-21	1'	ND	ND	ND	ND	ND	0	144
S-22	1'	ND	ND	ND	ND	ND	0	256
S-23	1'	ND	ND	ND	ND	ND	0	320
S-24	1'	ND	ND	ND	28.9	28.7	57.6	400

(ND) Analyte Not Detected

Upon receiving these sample results, an additional 6 inches was removed from the bottoms and sidewalls of ESW-2, NSW-1, NSW-2, SSW-1, WSW-1, S-7, S-8, and S-12. We utilized 5-point sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of these events are in the following data tables.:

4-16-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 4-16-24		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
ESW - 2 1'	1'	ND	ND	ND	ND	ND	0	112
NSW - 1 1'	1'	ND	ND	ND	ND	ND	0	112
NSW - 2 1'	1'	ND	ND	ND	ND	ND	0	112
S - 12 1.5'	1.5'	ND	ND	ND	ND	ND	0	96
SSW - 1 1'	1'	ND	ND	ND	ND	ND	0	80
WSW - 1 1'	1'	ND	ND	ND	ND	ND	0	64

(ND) Analyte Not Detected

5-3-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 5-3-24		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-7	1.5'	ND	ND	ND	ND	ND	0	32
S-8	1.5'	ND	ND	ND	ND	ND	0	32

(ND) Analyte Not Detected

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. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled with "like" material obtained from a localized sand pit. The affected area was then contoured and machine-compacted to match the surrounding grade.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2101065907, 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)318-6841 or email at tristan@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 Maps

Appendices:

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





Figures:

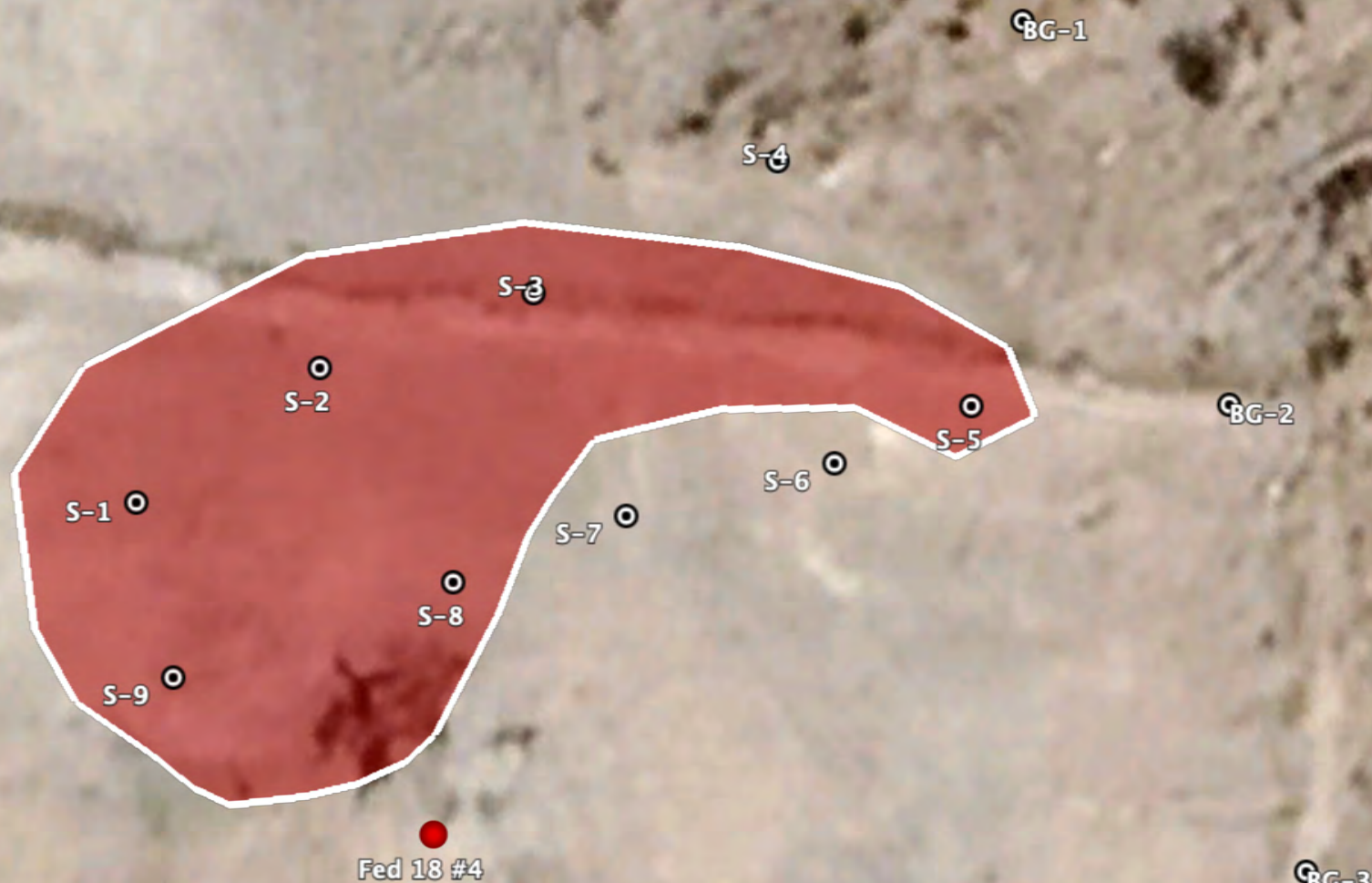
- 1-Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Sample Map

Spur Energy Partners

Federal 18 #4
API# 30-015-01671
Eddy County, NM
Site Map

Legend

-  Overspray Area
-  Sample

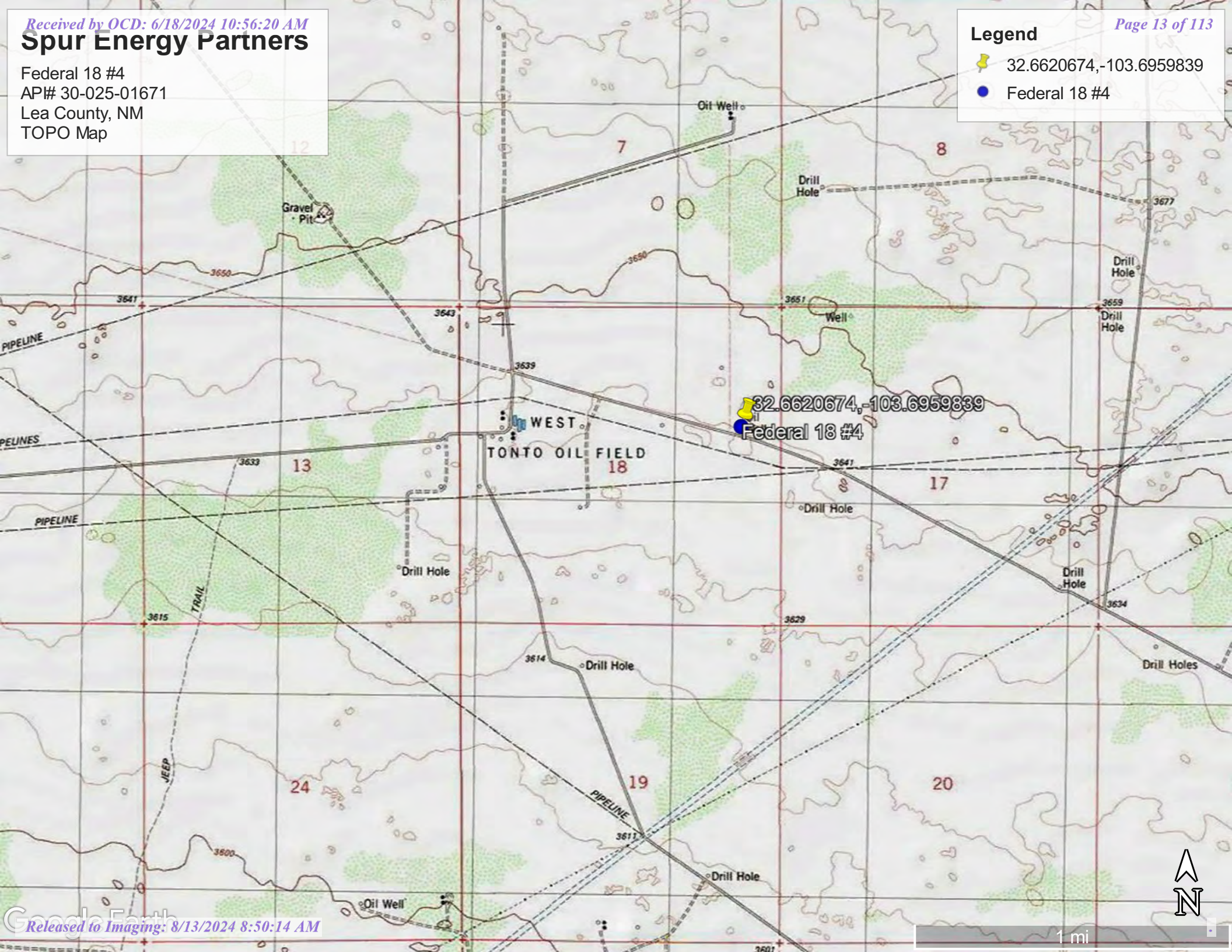


Google Earth



Legend






32.6620674,-103.6959839
Federal 18 #4

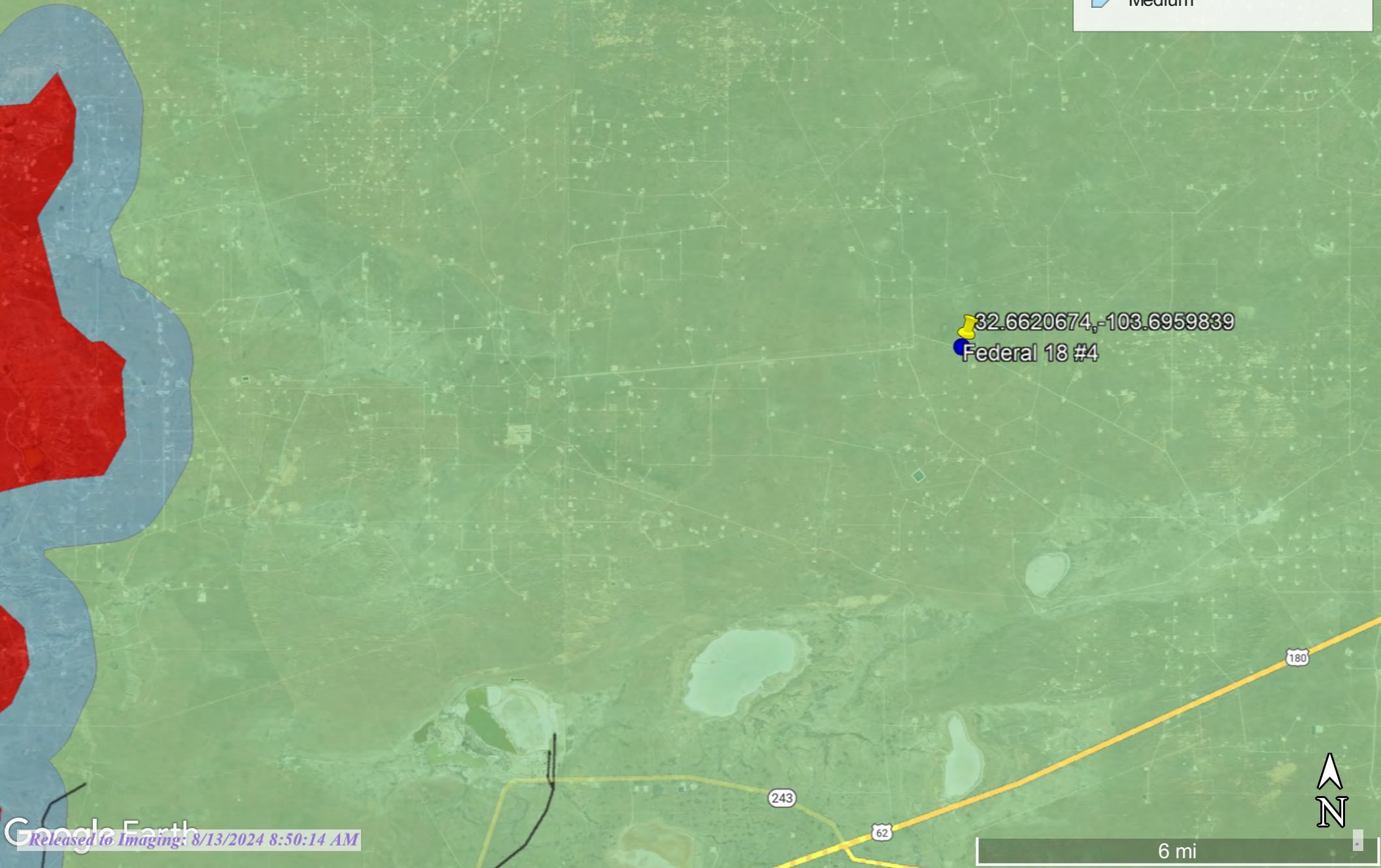


Spur Energy Partners

Federal 18 #4
AP# 30-025-01671
Lea County, NM
Karst Map

Legend



-  32.6620674,-103.6959839
-  Federal 18 #4
-  High
-  Low
-  Medium

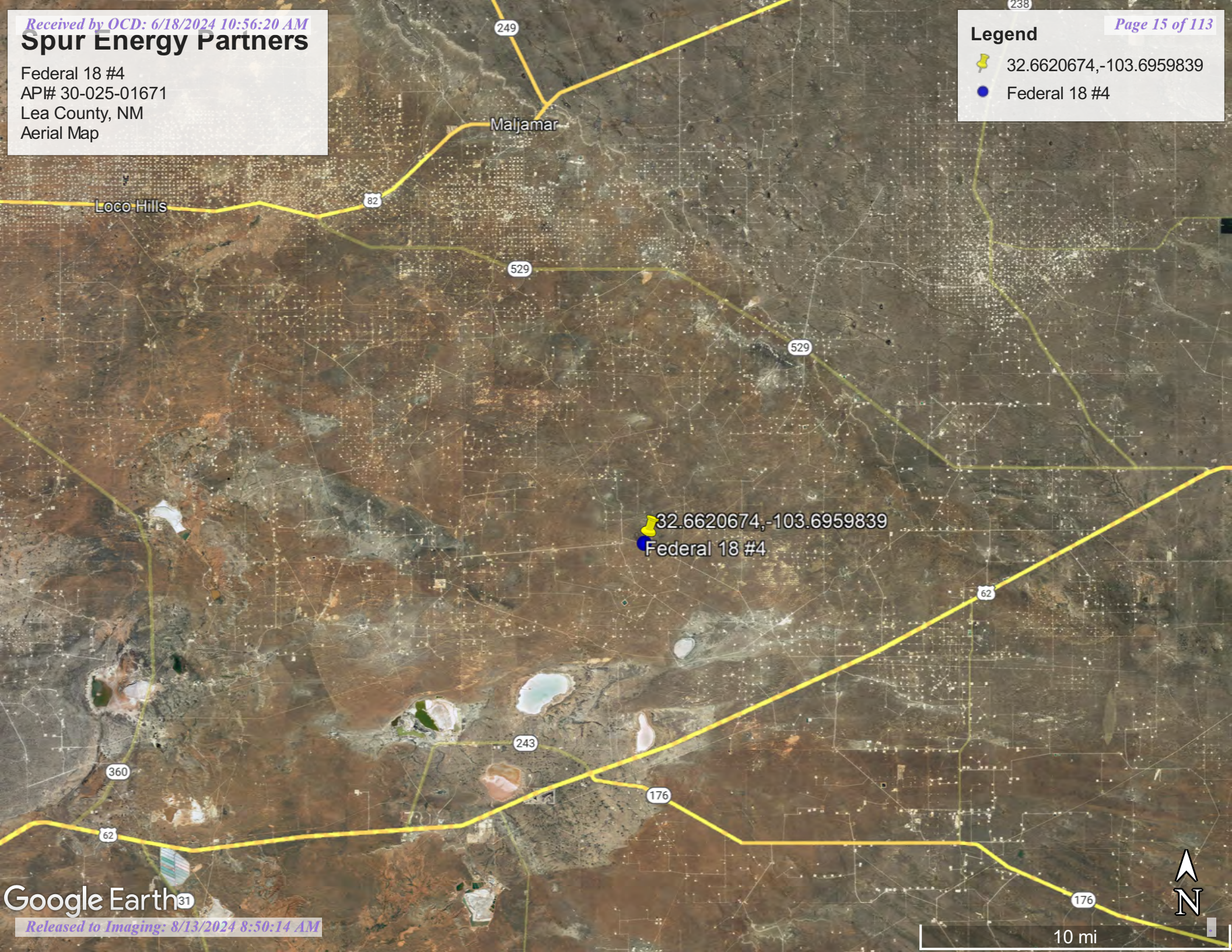


Spur Energy Partners

Federal 18 #4
AP# 30-025-01671
Lea County, NM
Aerial Map

Legend



-  32.6620674,-103.6959839
-  Federal 18 #4

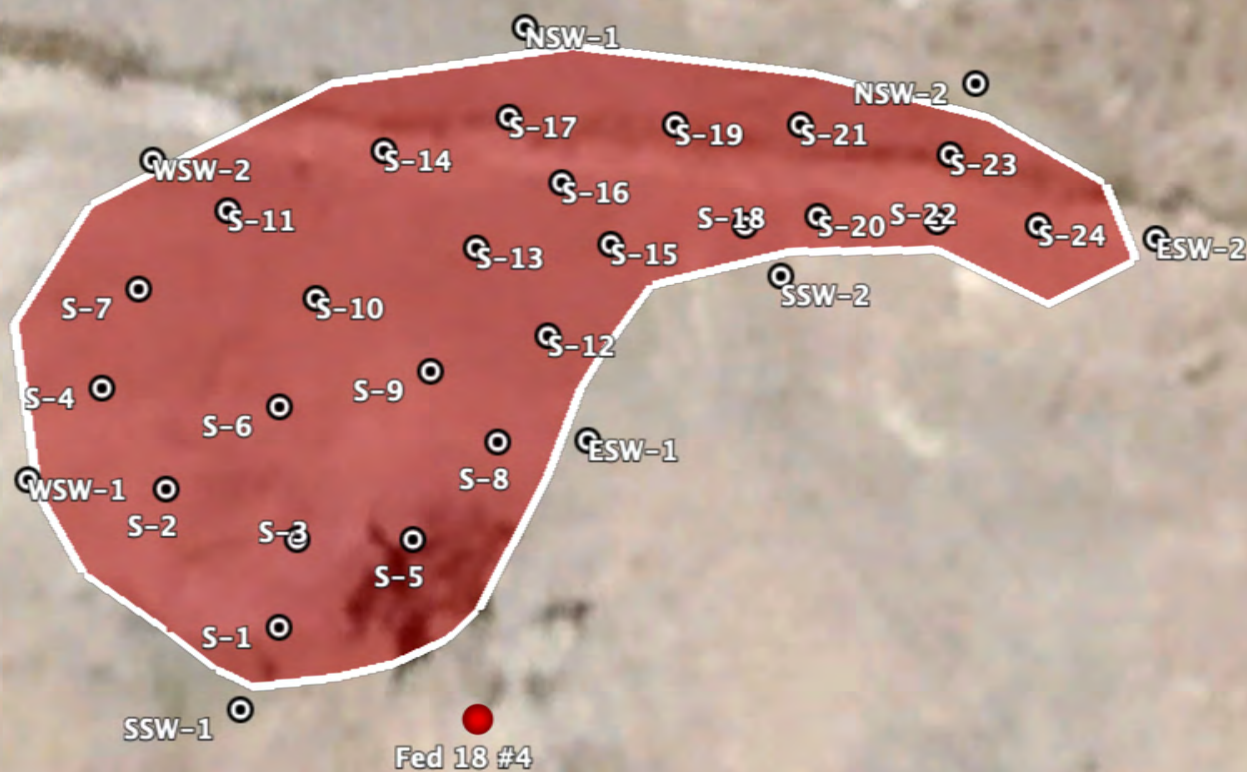


Spur Energy Partners

Federal 18 #4
API# 30-015-01671
Eddy County, NM
Confirmatio Map

Legend

-  Overspray Area
-  Sample



Google Earth



80 ft



Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00810 POD1		CP	LE	3	3	08	19S	33E		622675	3615385*	899	110		
CP 00805 POD1		CP	LE	3	1	18	19S	33E		621057	3614563*	1227	450		
CP 00812 POD1		CP	LE	4	4	01	19S	32E		620623	3616973*	2916	200		
CP 00809 POD1		CP	LE	2	1	05	19S	33E		623048	3618206*	3710	300		
CP 01857 POD1		CP	LE	3	4	4	32	18S	33E	623693	3618622	4285			
Average Depth to Water:														--	
Minimum Depth:														--	
Maximum Depth:														--	

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 622283.949 Northing (Y): 3614575 Radius: 5000

*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.



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Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States



GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

site_no list =

- 323947103412001

Minimum number of levels = 1

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

USGS 323947103412001 19S.33E.17.11224

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'01.8", Longitude 103°41'24.3" NAD83

Land-surface elevation 3,654 feet above NAVD88

The depth of the well is 131 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

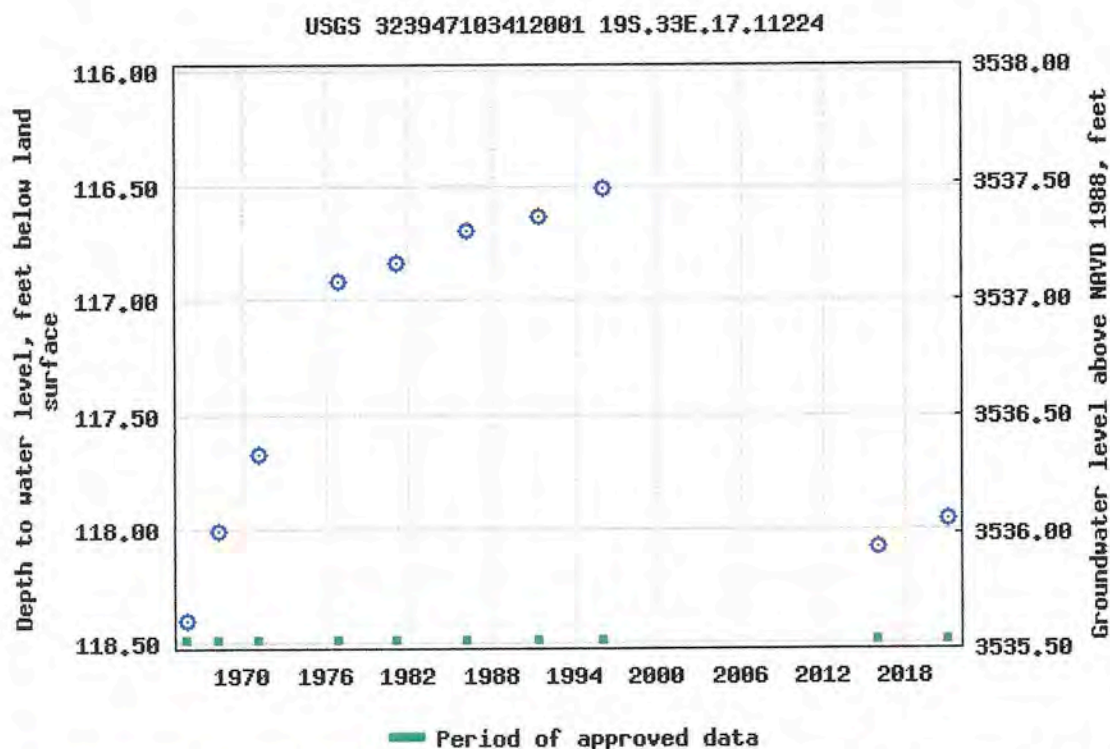
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-08-03 09:05:55 EDT

0.67 0.58 nadww01





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Data Category:
Groundwater

Geographic Area:
United States

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Search Results -- 1 sites found

site_no list =

- 323936103423301

Minimum number of levels = 1

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

USGS 323936103423301 19S.33E.18.133213

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'41.5", Longitude 103°42'36.1" NAD83

Land-surface elevation 3,639 feet above NAVD88

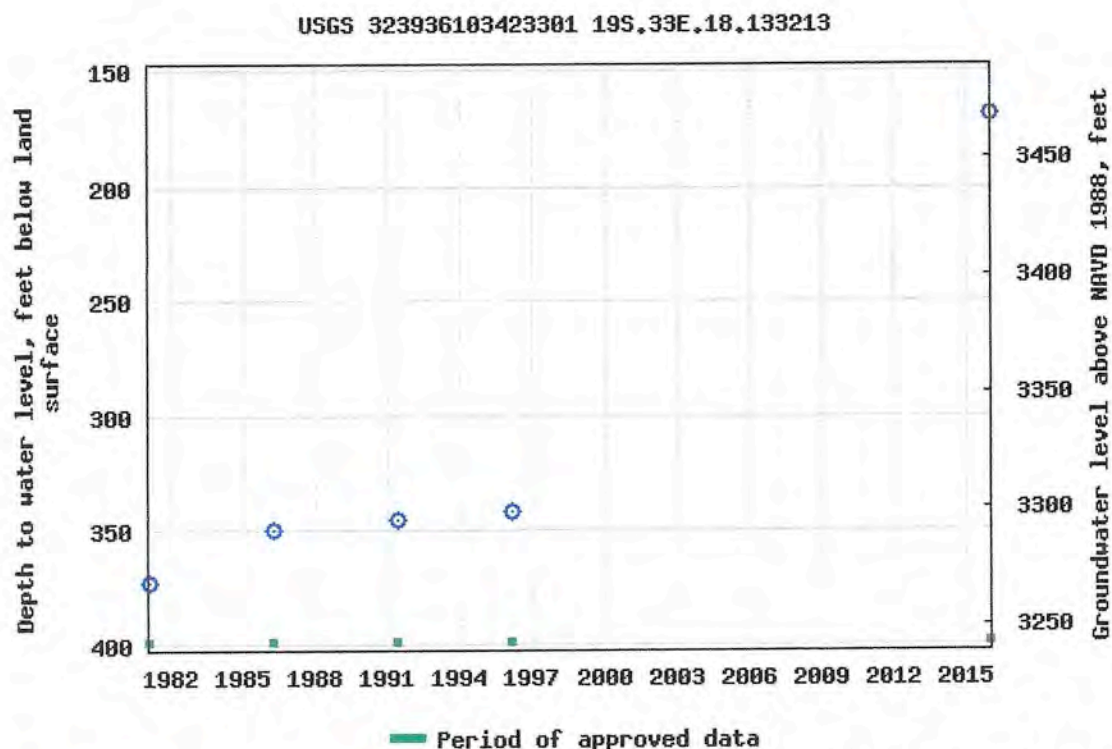
The depth of the well is 850 feet below land surface.

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

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-08-03 09:06:40 EDT

0.58 0.49 nadww01





National Water Information System: Mapper





Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e



Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMMette



103°42'4"W 32°39'59"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/19/2022 at 9:22 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.


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



Appendix C:

OCD Notification

Photographic Documentation



APENA (SITE SUPERVISOR FOR SPUR ENERGY PARTN

Searches ▾Operator Data ▾Submiss

OCD Permitting

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

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	330473	Districts:	Hobbs
Operator:	[328947] Spur Energy Partners LLC	Counties:	Lea
Description:	Spur Energy Partners LLC [328947] , FEDERAL 18 #004 , nAPP2101065907		
Status:	APPROVED		
Status Date:	04/05/2024		
References (2):	30-025-01671, nAPP2101065907		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2101065907
Incident Name	NAPP2101065907 FEDERAL 18 #004 @ 30-025-01671
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-01671] FEDERAL 18 #004

Location of Release Source

Site Name	FEDERAL 18 #004
Date Release Discovered	08/01/2020
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	4,500
What is the estimated number of samples that will be gathered	30

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC

04/09/2024

Time sampling will commence

10:30 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Jeremy Maner 575-602-4231

Please provide any information necessary for navigation to sampling site

32.6620674,-103.6959839

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary:

apena (4/5/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Fees

No fees found for this submission.

Go Back

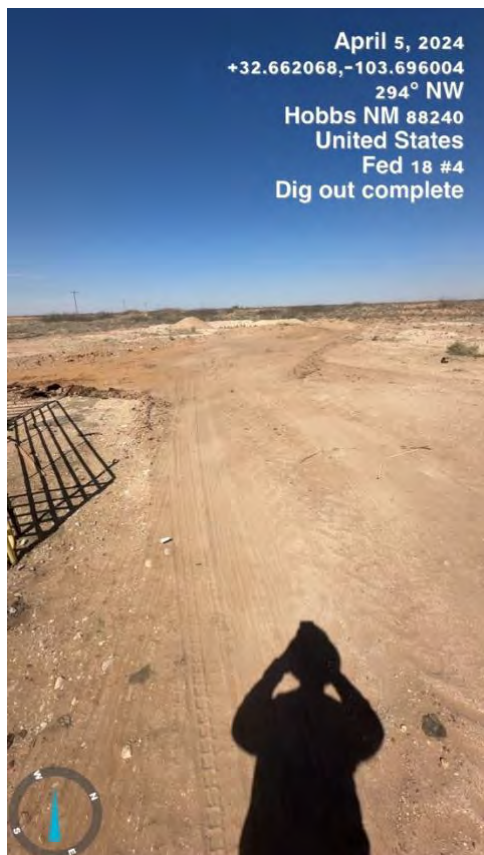




**Photographic Documentation
Before**



During



Complete





Appendix D:
Laboratory Results



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

March 03, 2021

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: FEDERAL 18 #4

Enclosed are the results of analyses for samples received by the laboratory on 03/01/21 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 1 0" - 6" (H210485-01)

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	03/02/2021	ND	2.11	105	2.00	4.66	
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67	
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35	
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97	
Total BTEX	<0.300	0.300	03/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	03/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	218	109	200	0.265	
DRO >C10-C28*	20.3	10.0	03/02/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	15.5	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 2 0" - 6" (H210485-02)

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	03/02/2021	ND	2.11	105	2.00	4.66		
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67		
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35		
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97		
Total BTEX	<0.300	0.300	03/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	03/02/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	218	109	200	0.265	
DRO >C10-C28*	276	10.0	03/03/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	159	10.0	03/03/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 3 0" - 6" (H210485-03)

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	03/02/2021	ND	2.11	105	2.00	4.66	
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67	
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35	
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97	
Total BTEx	<0.300	0.300	03/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/02/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	218	109	200	0.265	
DRO >C10-C28*	127	10.0	03/02/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	74.3	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 4 0" - 6" (H210485-04)

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	03/02/2021	ND	2.11	105	2.00	4.66	
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67	
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35	
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97	
Total BTEX	<0.300	0.300	03/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	03/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	218	109	200	0.265	
DRO >C10-C28*	27.8	10.0	03/02/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	21.8	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 5 0" - 6" (H210485-05)

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	03/02/2021	ND	2.11	105	2.00	4.66		
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67		
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35		
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97		
Total BTEX	<0.300	0.300	03/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/02/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	218	109	200	0.265	
DRO >C10-C28*	107	10.0	03/02/2021	ND	208	104	200	0.826	
EXT DRO >C28-C36	96.4	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.0 % 42.2-156

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Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 6 0" - 6" (H210485-06)

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	03/02/2021	ND	2.11	105	2.00	4.66	
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67	
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35	
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97	
Total BTEx	<0.300	0.300	03/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	03/02/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	212	106	200	0.578	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	209	105	200	0.378	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 7 0" - 6" (H210485-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2021	ND	2.11	105	2.00	4.66		
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67		
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35		
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97		
Total BTX	<0.300	0.300	03/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	03/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	212	106	200	0.578	
DRO >C10-C28*	11.9	10.0	03/02/2021	ND	209	105	200	0.378	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 8 0" - 6" (H210485-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2021	ND	2.11	105	2.00	4.66		
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67		
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35		
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97		
Total BTX	<0.300	0.300	03/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/02/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	212	106	200	0.578	
DRO >C10-C28*	92.6	10.0	03/03/2021	ND	209	105	200	0.378	
EXT DRO >C28-C36	65.0	10.0	03/03/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 9 0" - 6" (H210485-09)

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	03/02/2021	ND	2.11	105	2.00	4.66	
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67	
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35	
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97	
Total BTEX	<0.300	0.300	03/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2021	ND	212	106	200	0.578	
DRO >C10-C28*	51.1	10.0	03/03/2021	ND	209	105	200	0.378	
EXT DRO >C28-C36	25.3	10.0	03/03/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG - 1 (H210485-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2021	ND	2.11	105	2.00	4.66	
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67	
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35	
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97	
Total BTX	<0.300	0.300	03/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	03/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	212	106	200	0.578	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	209	105	200	0.378	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG - 2 (H210485-11)

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	03/02/2021	ND	2.11	105	2.00	4.66		
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67		
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35		
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97		
Total BTEx	<0.300	0.300	03/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	03/02/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	212	106	200	0.578	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	209	105	200	0.378	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2021
Reported: 03/03/2021
Project Name: FEDERAL 18 #4
Project Number: NONE GIVEN
Project Location: SPUR ENERGY-LEA CO., NM

Sampling Date: 03/01/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG - 3 (H210485-12)

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	03/02/2021	ND	2.11	105	2.00	4.66	
Toluene*	<0.050	0.050	03/02/2021	ND	2.12	106	2.00	4.67	
Ethylbenzene*	<0.050	0.050	03/02/2021	ND	2.05	102	2.00	5.35	
Total Xylenes*	<0.150	0.150	03/02/2021	ND	5.99	99.8	6.00	4.97	
Total BTEx	<0.300	0.300	03/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/02/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/02/2021	ND	212	106	200	0.578	
DRO >C10-C28*	<10.0	10.0	03/02/2021	ND	209	105	200	0.378	
EXT DRO >C28-C36	<10.0	10.0	03/02/2021	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pina Environmental</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Chris Jones</u>				P.O. #: <u>6-1</u>				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TIPH EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BT EX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>											
Address: <u>1601 N. Turner St. 500</u>				Company: <u>Pina Environmental</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Pina Environmental</u>															
Phone #: <u>575-964-7740</u> Fax #:				Address:															
Project #: _____ Project Owner: <u>Spur Energy</u>				City:															
Project Name: <u>Federal 1B #4</u>				State: _____ Zip: _____															
Project Location: <u>Lea, NM</u>				Phone #:															
Sampler Name: <u>Tristan Jones</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING					
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME					
<u>H210485</u>				<u>C</u>								<u>✓</u>		<u>3/1/21</u>					
<u>1 S-1</u>		<u>0"-6"</u>										<u>✓</u>							
<u>2 S-2</u>		<u>0"-6"</u>																	
<u>3 S-3</u>		<u>0"-6"</u>																	
<u>4 S-4</u>		<u>0"-6"</u>																	
<u>5 S-5</u>		<u>0"-6"</u>																	
<u>6 S-6</u>		<u>0"-6"</u>																	
<u>7 S-7</u>		<u>0"-6"</u>																	
<u>8 S-8</u>		<u>0"-6"</u>																	
<u>9 S-9</u>		<u>0"-6"</u>																	
<u>10 Bq-1</u>																			

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Relinquished By:		Date: <u>3-1-21</u>	Received By: <u>Jamara Alda Kye</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <u>1605</u>			All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:				
Delivered By: (Circle One)		Observed Temp. °C <u>14.4</u>	Sample Condition		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Bacteria (only) Sample Condition <input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact Observed Temp. °C <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No Corrected Temp. °C	
			CHECKED BY: (Initials) <u>TO</u>		Thermometer ID #113 Correction Factor None	

FORM-006 R 3.1 06/04/20

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476						BILL TO		ANALYSIS REQUEST																					
Company Name: Pima Environmental						P.O. #: 6-1																							
Project Manager: Chris Jones						Company: Pima Environmental																							
Address: 1601 N Turner ste. 500						Attn:																							
City: Hobbs State: NM Zip: 88240						Address:																							
Phone #: 575-964-7740 Fax #:						City:																							
Project #: Project Owner: Spur Energy						State: Zip:																							
Project Name: Federal 1B #4H						Phone #:																							
Project Location: Lea, NM						Fax #:																							
Sampler Name: Tristan Jones																													
FOR LAB USE ONLY						MATRX		PRESERV.		SAMPLING																			
Lab I.D.		Sample I.D.				(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
H210485						C				✓				✓	✓		3/1/21		TPH EXT	BTX	Chlorides								
11 Bg-2						C				✓				✓	✓		3/1/21		✓	✓	✓								
12 Bg-3						C				✓				✓	✓		3/1/21		✓	✓	✓								

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Relinquished By:		Date: 3-1-21	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
		Time: 1605		All Results are emailed. Please provide Email address:
Relinquished By:		Date:	Received By:	REMARKS:
		Time:		
Delivered By: (Circle One)	Observed Temp. °C 14.6	Sample Condition Cool <input checked="" type="checkbox"/> Intact	CHECKED BY: (Initials) TO	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No		Thermometer ID #113 Correction Factor None <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C



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

April 15, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: FEDERAL 18

Enclosed are the results of analyses for samples received by the laboratory on 04/10/24 16:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 (H241872-01)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	128	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	30.4	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	21.2	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 (H241872-02)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	04/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 3 (H241872-03)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 (H241872-04)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 5 (H241872-05)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	112	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	14.8	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 6 (H241872-06)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	272	16.0	04/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 7 (H241872-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	480	16.0	04/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	68.9	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	62.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 8 (H241872-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	608	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 9 (H241872-09)

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	04/11/2024	ND	2.11	105	2.00	1.85		
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46		
Total BTEx	<0.300	0.300	04/11/2024	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	144	16.0	04/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	24.7	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	19.8	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 10 (H241872-10)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	208	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 11 (H241872-11)

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	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	368	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 12 (H241872-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	105	2.00	1.85	
Toluene*	<0.050	0.050	04/11/2024	ND	2.10	105	2.00	2.60	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.04	102	2.00	3.19	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	6.19	103	6.00	2.46	
Total BTEX	<0.300	0.300	04/11/2024	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	432	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	72.7	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	76.3	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 13 (H241872-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	106	2.00	1.00	
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14	
Total BTEx	<0.300	0.300	04/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	40.6	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	32.5	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 14 (H241872-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	106	2.00	1.00		
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14		
Total BTEx	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	208	104	200	4.35	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	217	109	200	0.920	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 15 (H241872-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	106	2.00	1.00		
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14		
Total BTX	<0.300	0.300	04/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 16 (H241872-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	106	2.00	1.00		
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14		
Total BTEX	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 17 (H241872-17)

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	04/11/2024	ND	2.11	106	2.00	1.00		
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14		
Total BTEX	<0.300	0.300	04/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	04/11/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 18 (H241872-18)

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	04/11/2024	ND	2.11	106	2.00	1.00		
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14		
Total BTEx	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/11/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 19 (H241872-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	106	2.00	1.00	
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14	
Total BTEX	<0.300	0.300	04/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 20 (H241872-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2024	ND	2.11	106	2.00	1.00	
Toluene*	<0.050	0.050	04/11/2024	ND	2.29	114	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.37	118	2.00	7.90	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.05	117	6.00	8.14	
Total BTEx	<0.300	0.300	04/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 21 (H241872-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEx	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/11/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 22 (H241872-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEx	<0.300	0.300	04/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 23 (H241872-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEx	<0.300	0.300	04/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	<10.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 24 (H241872-24)

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	04/11/2024	ND	2.24	112	2.00	0.421	
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44	
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404	
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692	
Total BTEx	<0.300	0.300	04/11/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	28.9	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	28.7	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: NSW - 1 (H241872-25)

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	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEx	<0.300	0.300	04/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	94.1	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	82.2	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: NSW - 2 (H241872-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEX	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	98.8	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	79.0	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 1 (H241872-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEx	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	38.4	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	33.2	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 2 (H241872-28)

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	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEX	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	04/11/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	26.3	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	25.8	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SSW - 1 (H241872-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEX	<0.300	0.300	04/11/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	66.0	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	49.2	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/10/2024
Reported: 04/15/2024
Project Name: FEDERAL 18
Project Number: SPUR
Project Location: RURAL EDDY

Sampling Date: 04/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 1 (H241872-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2024	ND	2.24	112	2.00	0.421		
Toluene*	<0.050	0.050	04/11/2024	ND	2.28	114	2.00	1.44		
Ethylbenzene*	<0.050	0.050	04/11/2024	ND	2.36	118	2.00	0.404		
Total Xylenes*	<0.150	0.150	04/11/2024	ND	7.03	117	6.00	0.692		
Total BTEx	<0.300	0.300	04/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	04/11/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2024	ND	195	97.6	200	3.53	
DRO >C10-C28*	62.4	10.0	04/11/2024	ND	195	97.3	200	7.89	
EXT DRO >C28-C36	67.9	10.0	04/11/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Paragon Environmental LLC</u> Project Manager: <u>Chris Jones</u> Address: <u>1601 N. Turner</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: <u>575-631-6977</u> Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Federal 18</u> Project Location: <u>Rural Eddy</u> Sampler Name: <u>SCOTT MAHER</u>				BILL TO P.O. #: _____ Company: <u>SPR Energy</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST															
FOR LAB USE ONLY Lab I.D. <u>H241812</u>		Sample I.D. <u>5-1</u> <u>5-2</u> <u>5-3</u> <u>5-4</u> <u>5-5</u> <u>5-6</u> <u>5-7</u> <u>5-8</u> <u>5-9</u> <u>5-10</u>		(GRAB OR C/COMP.) # CONTAINERS <u>1</u>		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____		PRESERV. ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL <input checked="" type="checkbox"/> OTHER: _____		SAMPLING DATE <u>04/10</u> TIME _____		<u>Chlorides</u> <u>PH</u> <u>BTEX</u>									

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Relinquished By: <u>[Signature]</u> Date: <u>04-10</u> Time: <u>1607</u>		Received By: <u>[Signature]</u> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		REMARKS: _____ _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C <u>2-7C</u> Corrected Temp. °C _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <u>[Signature]</u> (Initials)	
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____		Thermometer ID #140 Correction Factor 0°C	

FORM 000 R 3-4 07/11/23

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:				BILL TO				ANALYSIS REQUEST															
Project Manager:				P.O. #:																			
Address:				Company:																			
City: State: Zip:				Attn:																			
Phone #: Fax #:				Address:																			
Project #: Project Owner:				City:																			
Project Name:				State: Zip:																			
Project Location:				Phone #: Fax #:																			
Sampler Name:																							
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING													
		4241872		5-11		GROUNDWATER		ACID/BASE:		DATE													
		11		5-12		WASTEWATER		ICE / COOL		04-09													
		12		5-13		SOIL		OTHER:															
		13		5-14		OIL																	
		14		5-15		SLUDGE																	
		15		5-16		OTHER:																	
		16		5-17																			
		17		5-18																			
		18		5-19																			
		19		5-20																			
		20																					

187
BTEX
Chlorides

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Relinquished By:		Date: 04/10	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 10:07	Received By:		All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 2-7c	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		REMARKS:	
Corrected Temp. °C		CHECKED BY: (Initials)		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		
				Thermometer ID #140 Correction Factor 0°C		
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C		

FORM-000 R 3.4 07/11/25

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Project Manager: Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: Sampler Name:				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY Lab I.D. H241872 21 22 23 24 25 26 27 28 29 30		Sample I.D. S-21 S-22 S-23 S-24 NSW-1 NSW-2 ES W-1 ES W-2 SS W-1 WSW-1		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX ACID/BASE: ICE / COOL OTHER:		PRESERV. DATE: 04/09 TIME:		SAMPLING T P H B T O K C h o r i s													

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Relinquished By: [Signature] Relinquished By:		Date: 04/10 Time: 16:57 Date: Time:		Received By: [Signature] Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C: 2.7C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) [Signature]	
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140 Correction Factor 0°C		Corrected Temp. °C	

FORM-000 R 3.4 07/11/23

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

May 01, 2024

CASON SPURLOCK

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: FEDERAL 18 #4

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 16:30.

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:PARAGON ENVIROMENTAL
1601 N TURNER ST., STE 500
HOBBS NM, 88240Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:Reported:
01-May-24 16:58

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 12 1'	H242017-01	Soil	16-Apr-24 00:00	16-Apr-24 16:30
NSW - 1 1'	H242017-02	Soil	16-Apr-24 00:00	16-Apr-24 16:30
NSW - 2 1'	H242017-03	Soil	16-Apr-24 00:00	16-Apr-24 16:30
ESW - 2 1'	H242017-04	Soil	16-Apr-24 00:00	16-Apr-24 16:30
SSW - 1 1'	H242017-05	Soil	16-Apr-24 00:00	16-Apr-24 16:30
WSW - 1 1'	H242017-06	Soil	16-Apr-24 00:00	16-Apr-24 16:30

05/01/24 - Client changed the sample dates (see COC). This is the revised report and will replace the one sent on 04/22/24.

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

S - 12 1'
H242017-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	4041832	CT	18-Apr-24	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041729	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041729	JH	18-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 4041729 JH 18-Apr-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

Surrogate: 1-Chlorooctane 106 % 48.2-134 4041726 MS 17-Apr-24 8015B

Surrogate: 1-Chlorooctadecane 110 % 49.1-148 4041726 MS 17-Apr-24 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

NSW - 1 1'
H242017-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	4041832	CT	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4041730	JH	18-Apr-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2-134		4041726	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1-148		4041726	MS	17-Apr-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

NSW - 2 1'
H242017-03 (Soil)

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

Chloride	112		16.0	mg/kg	4	4041832	CT	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041730	JH	18-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	4041730	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

Surrogate: 1-Chlorooctane			97.7 %		48.2-134	4041726	MS	17-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			99.7 %		49.1-148	4041726	MS	17-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

ESW - 2 1'
H242017-04 (Soil)

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

Chloride	112		16.0	mg/kg	4	4041832	CT	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	4041730	JH	18-Apr-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctane			85.2 %		48.2-134	4041726	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			87.8 %		49.1-148	4041726	MS	17-Apr-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

SSW - 1 1'
H242017-05 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	4041832	CT	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041730	JH	18-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	4041730	JH	18-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	

Surrogate: 1-Chlorooctane			86.5 %		48.2-134	4041726	MS	17-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			90.5 %		49.1-148	4041726	MS	17-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

WSW - 1 1'
H242017-06 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4041832	CT	18-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041730	JH	18-Apr-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		4041730	JH	18-Apr-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041726	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctane			80.2 %	48.2-134		4041726	MS	17-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			82.6 %	49.1-148		4041726	MS	17-Apr-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4041832 - 1:4 DI Water									
Blank (4041832-BLK1)					Prepared & Analyzed: 18-Apr-24				
Chloride	ND	16.0	mg/kg						
LCS (4041832-BS1)					Prepared & Analyzed: 18-Apr-24				
Chloride	464	16.0	mg/kg	400	116	80-120			
LCS Dup (4041832-BSD1)					Prepared & Analyzed: 18-Apr-24				
Chloride	464	16.0	mg/kg	400	116	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041729 - Volatiles**Blank (4041729-BLK1)**

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	71.5-134			

LCS (4041729-BS1)

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.07	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128			
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	89-129			
o-Xylene	1.98	0.050	mg/kg	2.00		99.2	86.1-125			
Total Xylenes	6.15	0.150	mg/kg	6.00		102	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	71.5-134			

LCS Dup (4041729-BS1)

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	2.06	0.050	mg/kg	2.00		103	82.8-130	0.321	15.8	
Toluene	2.07	0.050	mg/kg	2.00		103	86-128	0.334	15.9	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	85.9-128	0.230	16	
m,p-Xylene	4.14	0.100	mg/kg	4.00		104	89-129	0.415	16.2	
o-Xylene	1.98	0.050	mg/kg	2.00		99.0	86.1-125	0.204	16.7	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	88.2-128	0.347	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

Batch 4041730 - Volatiles**Blank (4041730-BLK1)**

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041730 - Volatiles**Blank (4041730-BLK1)**

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0554		mg/kg	0.0500		111	71.5-134			

LCS (4041730-BS1)

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.05	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.9	85.9-128			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.1	89-129			
o-Xylene	1.92	0.050	mg/kg	2.00		96.0	86.1-125			
Total Xylenes	5.84	0.150	mg/kg	6.00		97.4	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0460		mg/kg	0.0500		92.1	71.5-134			

LCS Dup (4041730-BSD1)

Prepared: 17-Apr-24 Analyzed: 18-Apr-24

Benzene	1.99	0.050	mg/kg	2.00		99.3	82.8-130	1.69	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	4.43	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	85.9-128	7.26	16	
m,p-Xylene	4.26	0.100	mg/kg	4.00		106	89-129	8.15	16.2	
o-Xylene	2.07	0.050	mg/kg	2.00		103	86.1-125	7.38	16.7	
Total Xylenes	6.33	0.150	mg/kg	6.00		105	88.2-128	7.89	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 18 #4
Project Number: SPUR
Project Manager: CASON SPURLOCK
Fax To:

Reported:
01-May-24 16:58

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041726 - General Prep - Organics**Blank (4041726-BLK1)**

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	49.1-148			

LCS (4041726-BS1)

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	203	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	211	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	414	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	49.1-148			

LCS Dup (4041726-BSD1)

Prepared & Analyzed: 17-Apr-24

GRO C6-C10	203	10.0	mg/kg	200		101	66.4-123	0.306	17.7	
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118	3.29	21	
Total TPH C6-C28	407	10.0	mg/kg	400		102	77.6-123	1.81	18.5	
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

State: NM Zip: 88242

Phone #: 575-631-6977

Fax #:

Project #:

Project Owner: Spur

Project Name: Federal 18 #4

Project Location: Lea

Sampler Name: Jeremy Maher

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Spur

Attn: Bradley Molder

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H242017

1 S-12 1'
2 NSW-1 1'
3 NSW-2 1'
4 ESW-2 1'
5 SSW-1 1'
6 WSW-1 1'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

MATRIX

PRESERV

SAMPLING

DATE

TIME

*
04/06/16

TPH Ext

BTEX

Chlorides

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Relinquished By:

Date: 04/06/16

Received By:

Time: 16:30

Brandi Bautista

Relinquished By:

Date:

Received By:

Time:

Delivered By: (Circle One)

Sampler: UPS - Bus - Other:

-1.5°C

#140

Sample Condition

Cool Intact

☒ Yes ☐ No

CHECKED BY:

(Initials)

bb

Phone Result: ☐ Yes ☐ No

Add'l Phone #:

Fax Result: ☐ Yes ☐ No

Add'l Fax #:

REMARKS:

*Customer requested Date change.

to 5/1/16

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



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

May 10, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: FEDERAL 18 #4

Enclosed are the results of analyses for samples received by the laboratory on 05/06/24 13:18.

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

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
1601 N TURNER ST., STE 500
HOBBS NM, 88240
Fax To:

Received: 05/06/2024
Reported: 05/10/2024
Project Name: FEDERAL 18 #4
Project Number: SPUR
Project Location: EDDY CO

Sampling Date: 05/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 7 1.5 (H242424-01)

BTX 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTX	<0.300	0.300	05/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	203	101	200	3.52	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/06/2024
Reported: 05/10/2024
Project Name: FEDERAL 18 #4
Project Number: SPUR
Project Location: EDDY CO

Sampling Date: 05/03/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 8 1.5 (H242424-02)

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	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTEx	<0.300	0.300	05/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	203	101	200	3.52	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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. #: 5805				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>																	
Address: 1601 N. Turner St., Ste 500				Company:																					
City: Hobbs State: NM Zip: 88240				Attn:																					
Phone #: 575-964-7814 Fax #: 575-58-24				Address:																					
Project #: Federal 18 #4				City:																					
Project Name: Farrell SWD Cathering line				State: Zip:																					
Project Location: Rural Eddy				Phone #:																					
Sampler Name: Angel O. Peña				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME												
H242424	5-7 15	4			1					1		5/3													

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Relinquished By:	Date: 5-6-24 Time: 1318	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	Time:	Cool Intact	*project name correction, per customer.	
3-3c #140		<input type="checkbox"/> Yes <input type="checkbox"/> No	8/10/24 5-8-24	
		<input type="checkbox"/> No <input type="checkbox"/> No		
		CHECKED BY: (Initials)		
		SR		

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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

QUESTIONS

Action 355457

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	355457
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2101065907
Incident Name	NAPP2101065907 FEDERAL 18 #004 @ 30-025-01671
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-01671] FEDERAL 18 #004

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FEDERAL 18 #004
Date Release Discovered	08/01/2020
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 6 BBL Recovered: 0 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

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

QUESTIONS, Page 2

Action 355457

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	355457
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Nature and Volume of Release (continued)**

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (d) substantially damages property or the environment.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/18/2024
--	--

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 355457

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	355457
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	Yes
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	32000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	435
GRO+DRO	(EPA SW-846 Method 8015M)	276
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	03/18/2024
On what date will (or did) the final sampling or liner inspection occur	05/03/2024
On what date will (or was) the remediation complete(d)	05/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	4400
What is the estimated volume (in cubic yards) that will be reclaimed	245
What is the estimated surface area (in square feet) that will be remediated	4400
What is the estimated volume (in cubic yards) that will be remediated	245

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

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

District I

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Phone:(575) 393-6161 Fax:(575) 393-0720

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

QUESTIONS, Page 4

Action 355457

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	355457
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

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

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/18/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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QUESTIONS, Page 5

Action 355457

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 355457
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 355457

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	355457
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	339456
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/03/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	4400

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4400
What was the total volume (cubic yards) remediated	245
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4400
What was the total volume (in cubic yards) reclaimed	245
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 06/18/2024
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QUESTIONS, Page 7

Action 355457

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 355457
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 355457

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 355457
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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/13/2024