

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>101.000</u>	<u>51.000</u>	<u>2.750</u>
Cubic Feet Impacted		<u>1180.438</u>
Barrels		<u>210.23</u>
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		<u>210.23</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		210.30000

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)	101
Width (ft)	51
Depth (in)	2.750







Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>75.000</u>	<u>50.000</u>	<u>1.000</u>
Cubic Feet Impacted		<u>312.500</u>
Barrels		<u>55.65</u>
Soil Type		Clay/Sand
Bbls Assuming 100% Saturation		<u>8.35</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		8.40000

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)	50
Depth (in)	1.000









July 24, 2025

NMOCD District 2
Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Crisha Morgan
Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Request
Pronghorn SWD #1
API No. 30-025-32735
GPS: Latitude 32.6521 Longitude -103.71645
UL "B", Sec. 24, T19S, R32E
Lea County, NM
NMOCD Ref. No. nAPP2418556332

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 Pronghorn SWD #1 (Pronghorn). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	218 bbls
		Volume Recovered:	210 bbls
Source of Release:	Flow Line	Date of Release:	7/2/24
Was Immediate Notice Given?	Yes	If, Yes, to Whom?	NMOCD Portal
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	Federal
HIGH PRESSURE ON AN INJECTION WELL DISCHARGE LINE CAUSED THE RELEASE OF 210 BBLS OF PW INTO CONTAINMENT AND 8 BBLS OF PW ONTO THE LOCATION PAD			

Topographical and Water 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 USGS
- Did the release impact groundwater or surface water No

Depth to groundwater information is provided in Appendix A.

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

- A Continuously flowing watercourse or any other significant watercourse- > 5 Mile
- Any lakebed, sinkhole, or playa lake- 1-5 mi
- An occupied permanent residence, school, hospital, institution, or church- 1-5 mi
- A spring or a private domestic fresh water well used by less than 5 households for domestic or stock watering purposes- 1-5 mi
- Any other fresh water well or spring- 1-5 mi
- Incorporated municipal boundaries or a defined municipal fresh water well field- 1-5 mi
- A wetland- 1-5 mi
- A subsurface mine- >5 mi
- An (non-karst) unstable area- 1-5mi
- 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- No

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 Kermit-Palomas Fine Sands, with 0 to 12 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage course in this area is excessively 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 July 15, 2024, Paragon conducted an initial site assessment. During the initial site assessment, it was determined we would gather samples in the area where the spill had come out of the flow line and flowed out of the containment and onto the pad. Nine (9) soil samples were collected in this area in an effort to determine the vertical extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

7-15-24 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')							
Sample Date 7-15-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 2,500 mg/kg	Closure Criteria ≤ 20,000 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
HZ - 1 0-6"	ND	ND	ND	149	108	257	5760
HZ - 1 1'	ND	ND	ND	ND	ND	0	2680
HZ - 2 0-6"	ND	ND	ND	ND	ND	0	2480
HZ - 2 1'	ND	ND	ND	ND	ND	0	272
HZ - 3 0-6" REFUSAL	ND	ND	ND	ND	ND	0	6200
HZ - 4 0-6" REFUSAL	ND	ND	ND	38.2	25.7	63.9	1730
HZ - 5 0-6" REFUSAL	ND	ND	ND	33	26.2	59.2	640
S - 1 0-6"	ND	ND	ND	ND	ND	0	25600
S - 1 1'	ND	ND	ND	ND	ND	0	2100
S - 1 2'	ND	ND	ND	ND	ND	0	4240
S - 1 3'	ND	ND	ND	ND	ND	0	2370
S - 1 4'	ND	ND	ND	ND	ND	0	2600
S - 2 0-6"	ND	ND	ND	108	48.4	156.4	2760
S - 2 1'	ND	ND	ND	ND	ND	0	4120
S - 2 2'	ND	ND	ND	ND	ND	0	4600
S - 2 3'	ND	ND	ND	ND	ND	0	5360
S - 2 4'	ND	ND	ND	ND	ND	0	10200
S - 3 0-6"	ND	ND	ND	ND	ND	0	12800
S - 3 1'	ND	ND	ND	ND	ND	0	912
S - 3 2'	ND	ND	ND	ND	ND	0	320
S - 3 3'	ND	ND	ND	ND	ND	0	112
S - 3 4'	ND	ND	ND	ND	ND	0	96
S - 4 0-6"	ND	ND	ND	ND	ND	0	19800
S - 4 1'	ND	ND	ND	ND	ND	0	9200
S - 4 2'	ND	ND	ND	ND	ND	0	4240
S - 4 3' REFUSAL	ND	ND	ND	ND	ND	0	7920

(ND) Analyte Not Detected

Laboratory data is attached in Appendix D

A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

On July 29, 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 and S-4 down to 1' BGS. We also scraped the surface of the spill to prevent tracking of the contaminants. The two excavated areas measured a combined total of 400 S/F. A sampling notification was submitted to the NMOCD prior to obtaining confirmation samples. We also dug test holes to sample the areas of HZ-1, HZ-3, HZ-4, S-1, S-2, S-3, and S-4 to obtain full delineation (S-1 and S-4 relabeled as B-1 and B-2, respectively). The bottom composite samples were representative of no more than 200 sq/ft, and the sidewall samples were obtained every 50 feet. The results of this sampling event are in the following data table.

8-2-24 Confirmation Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')							
Sample Date 8-2-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 1,000 mg/kg			Closure Criteria ≤ 2,500 mg/kg	Closure Criteria ≤ 20,000 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
B-1 1'	ND	ND	ND	ND	ND	0	96
B-1 6'	ND	ND	ND	ND	ND	0	272
B-2 1'	ND	ND	ND	ND	ND	0	1440
B-2 6'	ND	ND	ND	ND	ND	0	352
ESW-1 1'	ND	ND	ND	ND	ND	0	256
ESW-2 1'	ND	ND	ND	ND	ND	0	416
HZ-1 3'	ND	ND	ND	ND	ND	0	256
HZ-3 3'	ND	ND	ND	ND	ND	0	560
HZ-4 3'	ND	ND	ND	ND	ND	0	272
NSW-1 1'	ND	ND	ND	ND	ND	0	544
NSW-2 1'	ND	ND	ND	ND	ND	0	496
S2 6'	ND	ND	ND	ND	ND	0	288
S3 6'	ND	ND	ND	ND	ND	0	304
SSW-1 1'	ND	ND	ND	ND	ND	0	272
SSW-2 1'	ND	ND	ND	ND	ND	0	496
WSW-1 1'	ND	ND	ND	ND	ND	0	352
WSW-2 1'	ND	ND	ND	ND	ND	0	416

(ND) Analyte Not Detected

These laboratory analytical results showed that the confirmation soil samples were below the 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.

Paragon returned to the site on February 7, 2025, and conducted a liner inspection. Another company had cleaned the liner after the incident, and upon inspection, the liner appeared intact and had the integrity to contain fluids upon an additional release.

During the review of this closure report, it was noticed that backfill samples weren't obtained during the backfill activities. Paragon submitted a sampling notification to the NMOCD portal. On July 17, 2025, Paragon obtained composite backfill samples from the previously backfilled areas. The results of the backfill tests are in the following data table:

7/17/25 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 7/17/24		Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg	Combined Closure Criteria 1,000 mg/kg			Closure Criteria 2,500 mg/kg	Closure Criteria 20,000 mg/kg
Sample ID	Depth (BGs)	BTEX	Benzene	GRO	DRO	EXT	Total TPH	CHLORIDES
Backfill 1	Composite	ND	ND	ND	ND	ND	ND	32
Backfill 2	Composite	ND	ND	ND	20	ND	20	48

ND- Analyte Not Detected

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2418556332, 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 Manager
Paragon Environmental, LLC



Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Wetlands Map
- 5- Water Map
- 6- Confirmation Sample Maps

Appendices:

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



Figures:

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

Spur Energy Partners

Pronghorn SWD #1
API # 30-025-32735
Lea County, NM
Site Map

Legend

- Feature 1
- Pronghorn SWD #1 32.6521051,-103.7164501
- Spill Area - 3300 sq.ft.



Pronghorn SWD #1 32.6521051,-103.7164501

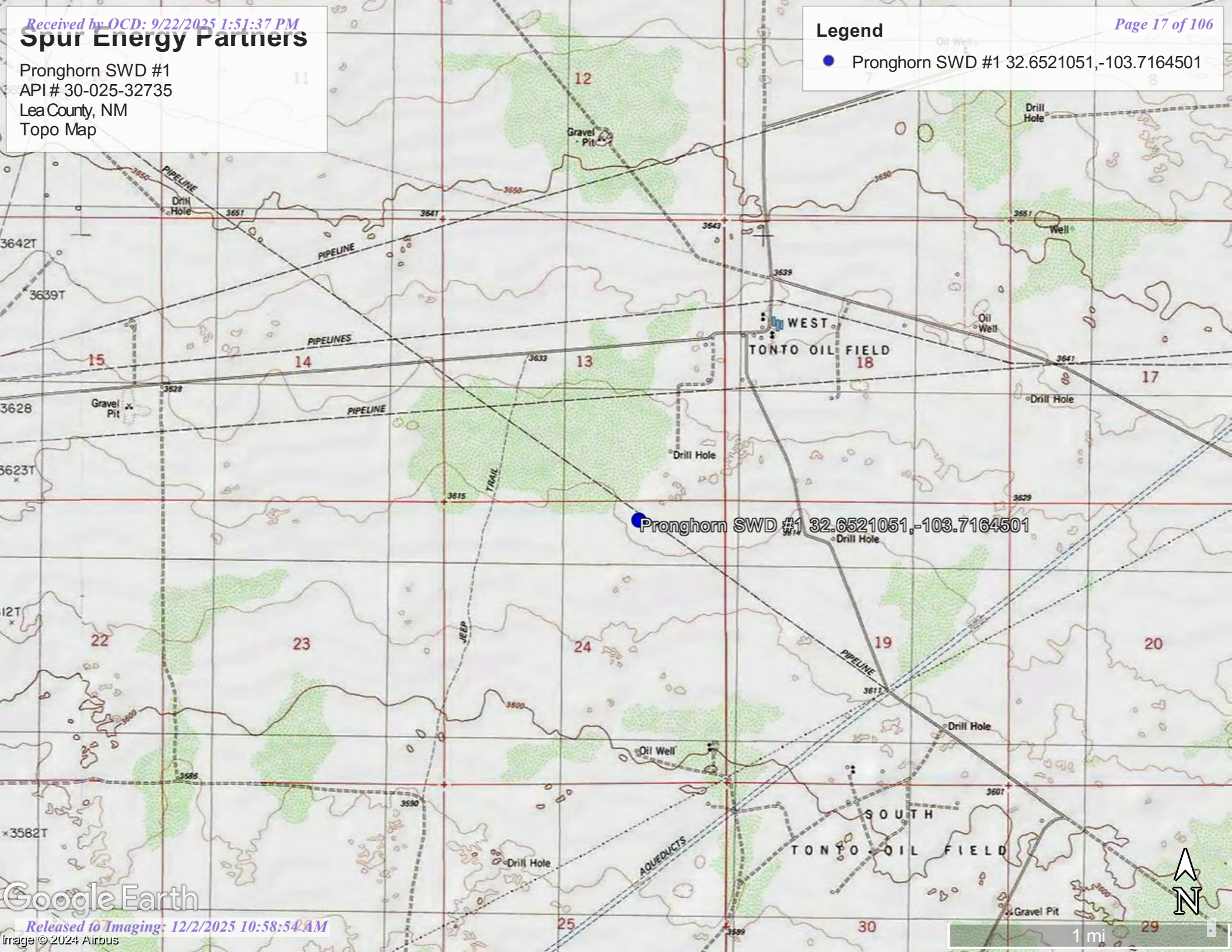


Spur Energy Partners

Pronghorn SWD #1
API # 30-025-32735
Lea County, NM
Topo Map

Legend

● Pronghorn SWD #1 32.6521051,-103.7164501



Spur Energy Partners

Pronghorn SWD #1
API # 30-025-32735
Lea County, NM
Karst Map

Legend

- High
- Low
- Medium
- Pronghorn SWD #1 32.6521051,-103.7164501



Pronghorn SWD #1 32.6521051,-103.7164501



Spur Energy Partners

Pronghorn SWD #1
Lea County, NM
Wetlands & Water Map

Legend

-  Water 3.35 Mile
-  Wetlands 9.87 Mile

Pronghorn SWD #1 32.6521051, -103.7164501

Google Earth

5 mi



Spur Energy Partners

Pronghorn SWD #1
API# 30-025-32735
Lea County, NM
Water Map

Legend

- 0.6 Mile
- Pronghorn SWD #1 32.6521051,-103.7164501
- USGS Well

USGS Well

S-3
HZ-1 S-4 Pronghorn SWD #1 32.6521051,-103.7164501

Google Earth

2000 ft



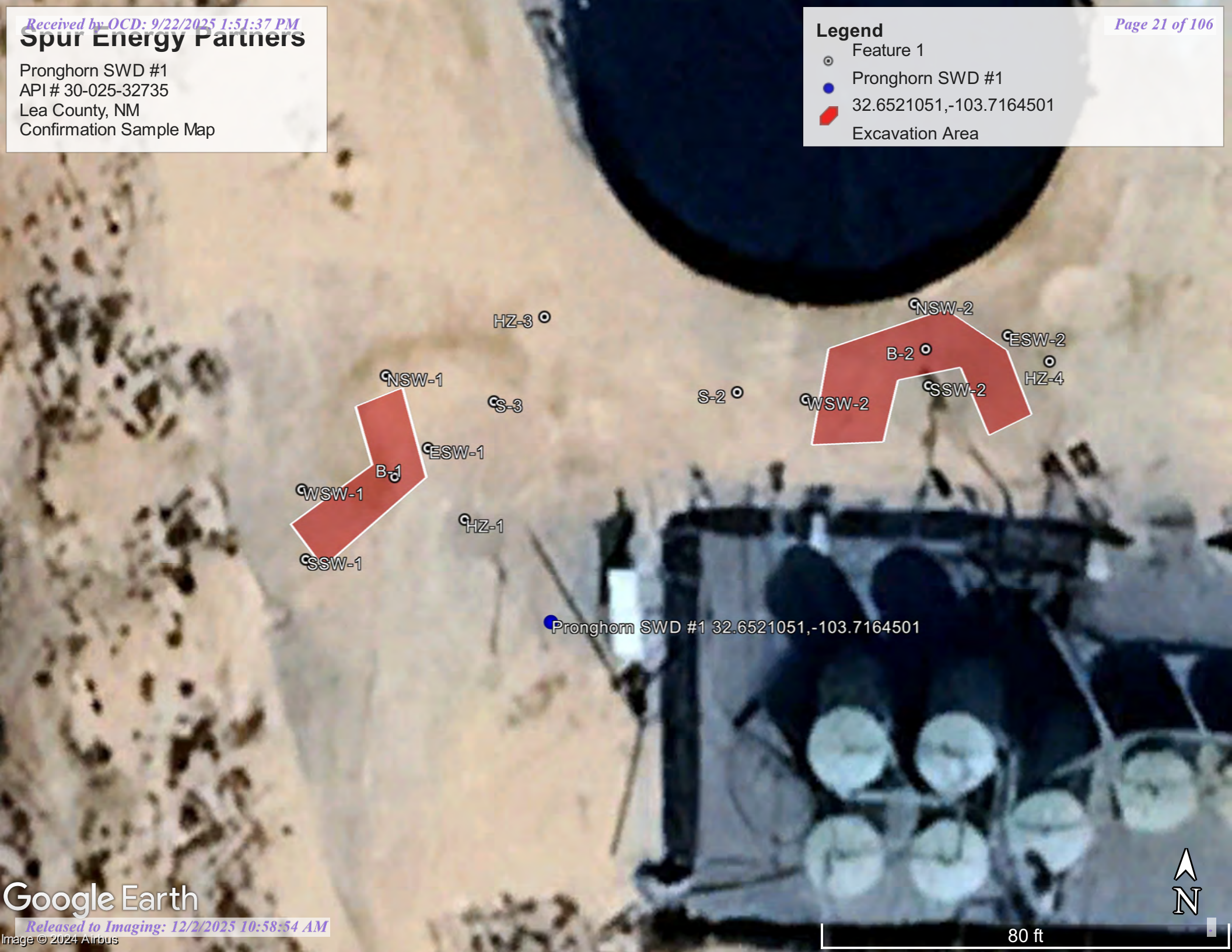
Spur Energy Partners

Pronghorn SWD #1
API # 30-025-32735
Lea County, NM
Confirmation Sample Map

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Legend

- Feature 1
- Pronghorn SWD #1
- 32.6521051,-103.7164501
- Excavation Area





Appendix A:

Referenced Water Data

USGS

New Mexico State of Engineers Office

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.

Groundwater levels for the Nation

Important:

[Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

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

Lea County, New Mexico
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 Sunrise Formation (231SNRS) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1981-02-05		D	62610		3264.98	NGVD29	1	Z			A
1981-02-05		D	62611		3266.55	NAVD88	1	Z			A
1981-02-05		D	72019	372.45			1	Z			A
1986-04-07		D	62610		3287.95	NGVD29	1	Z			A
1986-04-07		D	62611		3289.52	NAVD88	1	Z			A
1986-04-07		D	72019	349.48			1	Z			A
1991-05-24		D	62610		3291.77	NGVD29	1	Z			A
1991-05-24		D	62611		3293.34	NAVD88	1	Z			A
1991-05-24		D	72019	345.66			1	Z			A
1996-02-09		D	62610		3295.23	NGVD29	1	S			A
1996-02-09		D	62611		3296.80	NAVD88	1	S			A
1996-02-09		D	72019	342.20			1	S			A
2015-12-17	17:00 UTC	m	62610		3469.32	NGVD29	1	S	USGS	S	A
2015-12-17	17:00 UTC	m	62611		3470.89	NAVD88	1	S	USGS	S	A
2015-12-17	17:00 UTC	m	72019	168.11			1	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.



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 24	Tws 19S	Rng 32E	X 620720	Y 3613546	Distance 373	Depth 110	Well 450	Water Column
CP 01967 POD1		CP	LE	2	2	2	24	19S	32E	620720	3613546	373	110		
CP 00805 POD1		CP	LE	3	1	18	19S	33E	621057	3614563*		1322	450		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 620362.345

Northing (Y): 3613437.383

Radius: 1600

***UTM location was derived from PLSS - see Help**

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


7/17/24 10:45 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)								(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
NA	CP 01967 POD1	2	2	2	24	19S	32E	620720	3613546				
x													
Driller License:		1670			Driller Company:		HARRISON & COOPER, INC., DBA HCI DRILLING						
Driller Name:		KENNY COOPER											
Drill Start Date:		06/13/2023			Drill Finish Date:		06/13/2023		Plug Date:		06/19/2023		
Log File Date:		06/28/2023			PCW Rcv Date:				Source:				
Pump Type:					Pipe Discharge Size:				Estimated Yield:				
Casing Size:		2.00			Depth Well:		110 feet		Depth Water:				
x													

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.



Appendix B:

Soil Survey

U.S.D.A.

FEMA Flood Map

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv

Elevation: 3,000 to 4,400 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

Kermit and similar soils: 70 percent

Palomas and similar soils: 20 percent

Minor components: 10 percent

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

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 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: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Pyote

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 4 percent

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Palomas

Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 1 percent
Hydric soil rating: No

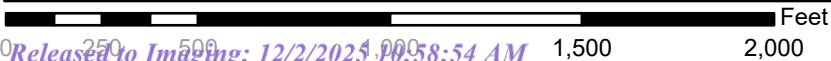
Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

National Flood Hazard Layer FIRMette



103°43'18"W 32°39'23"N



1:6,000

103°42'40"W 32°38'52"N

Released to Imaging: 12/2/2025 10:58:54 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/17/2024 at 12:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Appendix C:

NMOCD Notification

Photographic Documentation



Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 428295

<OCDOnline@state.nm.us>

Tue, Feb 4 at 5:18 PM

To: <angel@paragonenvironmental.net>

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

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2418556332.

The liner inspection is expected to take place:

When: 02/07/2025 @ 08:00

Where: B-24-19S-32E 0 FNL 0 FEL (32.6521,-103.71645)

Additional Information: Angel Pena

Additional Instructions: 32.6521051,-103.7164501

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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

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

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505



Paragon Environmental LLC

Liner Inspection Form

Company Name: Spur Energy Partners

Site: Pronghorn SWD #1

Lat/Long: 32.6521051,-103.7164501

NMOCD Incident ID

& Incident Date: nAPP2418556332, 07/02/24

2-Day Notification

Sent: Submitted into the portal on 02/04/25

Inspection Date: 02/07/25

Liner Type: Earthen w/liner

Earthen no liner

Polystar

Steel w/poly liner

Steel w/spray epoxy

No Liner

Other: _____

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

Comments: _____

Inspector Name: Angel Pena



OCD Permitting

HomeOperator DataAction StatusAction Search ResultsAction Status Item Details

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

Submission Information

Submission ID:	363556	Districts:	Hobbs
Operator:	[331082] Paragon Environmental LLC	Counties:	Lea
Description:	Paragon Environmental LLC [331082] , PRONGHORN SWD #1 , nAPP2418556332		
Status:	APPROVED		
Status Date:	07/12/2024		
References (2):	30-025-32735, nAPP2418556332		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2418556332
Incident Name	NAPP2418556332 PRONGHORN SWD #1 @ 30-025-32735
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-32735] PRONGHORN SWD #001

Location of Release Source

Site Name	PRONGHORN SWD #1
Date Release Discovered	07/02/2024
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/15/2024
Time sampling will commence	12:00 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	Tristan Jones 575-318-6841
Please provide any information necessary for navigation to sampling site	32.6521051,-103.7164501

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary:	cjones1 (7/12/2024), 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 the remediation closure samples not being accepted.
----------	--

Reasons

No reasons found for this submission.

Go Back



OCD Permitting

HomeOperator DataAction StatusAction Search ResultsAction Status Item Details

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

Submission Information

Submission ID:	368578	Districts:	Hobbs
Operator:	[331082] Paragon Environmental LLC	Counties:	Lea
Description:	Paragon Environmental LLC [331082] , PRONGHORN SWD #1 , nAPP2418556332		
Status:	APPROVED		
Status Date:	07/30/2024		
References (2):	30-025-32735, nAPP2418556332		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2418556332
Incident Name	NAPP2418556332 PRONGHORN SWD #1 @ 30-025-32735
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-32735] PRONGHORN SWD #001

Location of Release Source

Site Name	PRONGHORN SWD #1
Date Release Discovered	07/02/2024
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,650
What is the estimated number of samples that will be gathered	21
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/02/2024
Time sampling will commence	09:00 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	Angel Pena 575-605-0773
Please provide any information necessary for navigation to sampling site	GPS 32.6521,-103.71645

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary:	cjones1 (7/30/2024), 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 the remediation closure samples not being accepted.
----------	--

Reasons

No reasons found for this submission.

Go Back



Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 484738

<OCDOnline@state.nm.us>

Mon, Jul 14 at 4:26 PM

To: <angel@paragonenvironmental.net>

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2418556332.

The sampling event is expected to take place:

When: 07/17/2025 @ 08:00

Where: B-24-19S-32E 0 FNL 0 FEL (32.652100001,-103.71645)

Additional Information: Angel Pena
575-605-0773

Additional Instructions: Latitude 32.6521 Longitude -103.71645

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

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

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

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

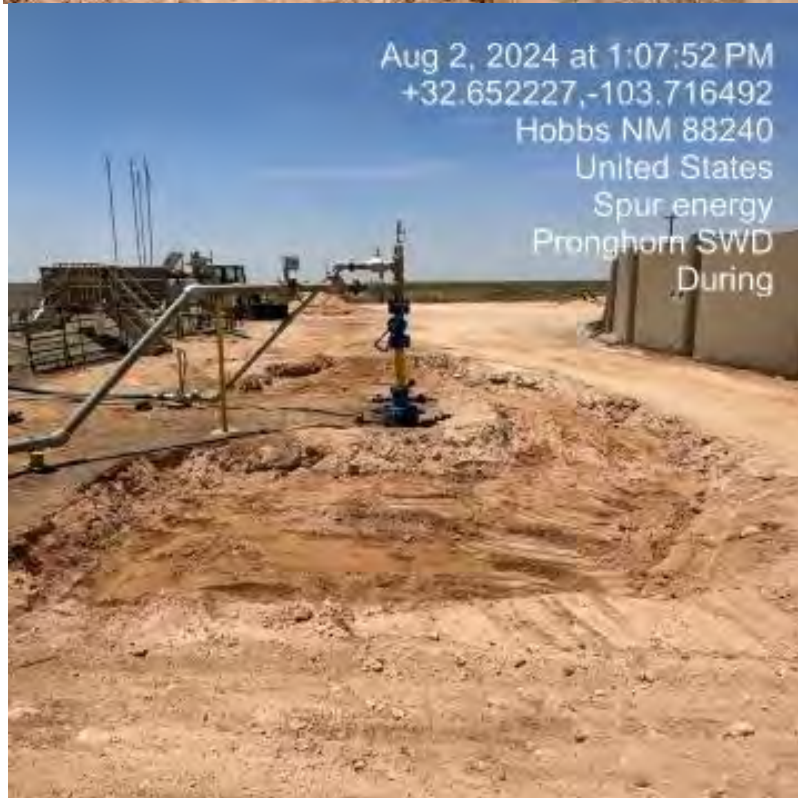


Photographic Documentation
Before Remediation





Photographic Documentation
During Remediation





Photographic Documentation
Post Remediation



Liner Inspection





Appendix D:
Laboratory Results



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

July 22, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: PRONGHORN SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/17/24 9:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 1 0-6" (H244264-01)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEx	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	25600	16.0	07/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 1 1' (H244264-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTX	<0.300	0.300	07/18/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2100	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	196	97.8	200	0.0552	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	183	91.3	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 1 2' (H244264-03)

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	07/18/2024	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08	
Total BTEx	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	4240	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 1 3' (H244264-04)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTX	<0.300	0.300	07/18/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2370	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 1 4' (H244264-05)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 2 0-6" (H244264-06)

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	07/18/2024	ND	2.04	102	2.00	3.64	
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08	
Total BTEX	<0.300	0.300	07/18/2024	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	2760	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	108	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	48.4	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 2 1' (H244264-07)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	4120	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 2 2' (H244264-08)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	4600	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 2 3' (H244264-09)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	5360	16.0	07/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 2 4' (H244264-10)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	10200	16.0	07/18/2024	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 3 0-6" (H244264-11)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	12800	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 3 1' (H244264-12)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	912	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 3 2' (H244264-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 3 3' (H244264-14)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 3 4' (H244264-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	96.0	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 4 0-6" (H244264-16)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	19800	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 4 1' (H244264-17)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	9200	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 4 2' (H244264-18)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEx	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	4240	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S - 4 3' REFUSAL (H244264-19)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEx	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	7920	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 1 0-6" (H244264-20)

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	07/18/2024	ND	2.04	102	2.00	3.64		
Toluene*	<0.050	0.050	07/18/2024	ND	2.24	112	2.00	4.88		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.31	116	2.00	5.41		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.16	119	6.00	5.08		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	5760	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	1.09	
DRO >C10-C28*	149	10.0	07/18/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	108	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 1 1' (H244264-21)

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	07/18/2024	ND	1.93	96.7	2.00	1.92		
Toluene*	<0.050	0.050	07/18/2024	ND	1.92	95.9	2.00	2.56		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.93	96.4	2.00	2.31		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.67	94.4	6.00	2.40		
Total BTX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	2680	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 2 0-6" (H244264-22)

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	07/18/2024	ND	1.93	96.7	2.00	1.92		
Toluene*	<0.050	0.050	07/18/2024	ND	1.92	95.9	2.00	2.56		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.93	96.4	2.00	2.31		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.67	94.4	6.00	2.40		
Total BTX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	2480	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	201	100	200	0.200	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 2 1' (H244264-23)

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	07/18/2024	ND	1.93	96.7	2.00	1.92		
Toluene*	<0.050	0.050	07/18/2024	ND	1.92	95.9	2.00	2.56		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.93	96.4	2.00	2.31		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.67	94.4	6.00	2.40		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	272	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	184	91.9	200	0.294	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	198	99.2	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 3 0-6" REFUSAL (H244264-24)

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	07/18/2024	ND	1.93	96.7	2.00	1.92		
Toluene*	<0.050	0.050	07/18/2024	ND	1.92	95.9	2.00	2.56		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.93	96.4	2.00	2.31		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.67	94.4	6.00	2.40		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	6200	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	184	91.9	200	0.294	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	198	99.2	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 106 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 4 0-6" REFUSAL (H244264-25)

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	07/18/2024	ND	1.93	96.7	2.00	1.92		
Toluene*	<0.050	0.050	07/18/2024	ND	1.92	95.9	2.00	2.56		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.93	96.4	2.00	2.31		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.67	94.4	6.00	2.40		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	1730	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	184	91.9	200	0.294	
DRO >C10-C28*	38.2	10.0	07/17/2024	ND	198	99.2	200	2.24	
EXT DRO >C28-C36	25.7	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 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: 07/17/2024
Reported: 07/22/2024
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/15/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 5 0-6" REFUSAL (H244264-26)

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	07/18/2024	ND	1.93	96.7	2.00	1.92		
Toluene*	<0.050	0.050	07/18/2024	ND	1.92	95.9	2.00	2.56		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.93	96.4	2.00	2.31		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.67	94.4	6.00	2.40		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	640	16.0	07/18/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	184	91.9	200	0.294	
DRO >C10-C28*	33.0	10.0	07/17/2024	ND	198	99.2	200	2.24	
EXT DRO >C28-C36	26.2	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

[illegible]



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental									
Project Manager: Chris Jones									
Address: 1601 N. Turner St., Ste 500									
City: Hobbs State: NM Zip: 88240									
Phone #: 575-964-7814 Fax #:									
Project #:									
Project Owner: Spur									
Project Location: 1c City: State: Zip:									
Sample Name: 1c Phone #: Fax #:									
FOR LAB USE ONLY									
Lab I.D.									
Sample I.D.									
H244204 11	S-C	O-6"	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE TIME	TPH EXT BTEX Chlorides
12	S-C	1'	Q		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :			7/5/24	
13	S-C	2'							
14	S-C	3'							
15	S-C	4'							
16	S-C	O-6"							
17	S-C	1'							
18	S-C	2'							
19	S-C	3' Refusal							
20	H2-1	O-6"							
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Relinquished By: [Signature] Date: 7/7 Received By: [Signature]									
Time: 9:45 AM									
Date: Relinquished By: [Signature] Received By: [Signature]									
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other: 1st e									
Sample Condition Cool Intact Broken Yes No									
CHECKED BY: (Initials) APD									
REMARKS: Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:									



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: Paragon Environmental Project Manager: Chris Jones Address: 1601 N. Turner St., Ste 500 City: Hobbs State: NM Zip: 88240 Phone #: 575-964-7814 Fax #: Project #: Project Name: Project Location:				P.O. #: Company: Spur Attn: Brady Moulder Address: City: State: Zip: Phone #: Fax #:		BILL TO ANALYSIS REQUEST	
Sample Name: XXXXXXXXXX 11 FOR LAB USE ONLY				Sample Name: XXXXXXXXXX 11 FOR LAB USE ONLY			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	TPH	EXT	BTX	Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :									ACID/BASE :
H244204																		
21	H3-1	1'	9															
22	H3-2	0-6"																
23	H3-2	1'																
24	H3-3	0-6" Refusal																
25	H3-4	0-6" Refusal																
26	H3-5	0-6" Refusal																

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Relinquished By: Date: 7/17 Received By:		Time: 4:45 Date: Time:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)
Relinquished By:		Time: Date: Time:	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Time: Date: Time:	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)

REMARKS: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
-------------------------	--



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

August 09, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: PRONGHORN SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 08/05/24 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: B - 1 1FT (H244693-01)

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	08/06/2024	ND	2.10	105	2.00	0.768	
Toluene*	<0.050	0.050	08/06/2024	ND	2.29	114	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.39	120	2.00	1.08	
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.29	121	6.00	0.252	
Total BTEX	<0.300	0.300	08/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/07/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 64.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: B - 2 1FT (H244693-02)

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	08/06/2024	ND	2.10	105	2.00	0.768		
Toluene*	<0.050	0.050	08/06/2024	ND	2.29	114	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.39	120	2.00	1.08		
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.29	121	6.00	0.252		
Total BTEX	<0.300	0.300	08/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	08/07/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: B - 1 6FT (H244693-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2024	ND	2.10	105	2.00	0.768		
Toluene*	<0.050	0.050	08/06/2024	ND	2.29	114	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.39	120	2.00	1.08		
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.29	121	6.00	0.252		
Total BTX	<0.300	0.300	08/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/07/2024	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: B - 2 6FT (H244693-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2024	ND	2.10	105	2.00	0.768		
Toluene*	<0.050	0.050	08/06/2024	ND	2.29	114	2.00	1.97		
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.39	120	2.00	1.08		
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.29	121	6.00	0.252		
Total BTEX	<0.300	0.300	08/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	352	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: WSW - 1 6FT (H244693-05)

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	08/07/2024	ND	1.91	95.3	2.00	4.03		
Toluene*	<0.050	0.050	08/07/2024	ND	1.89	94.5	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.93	96.5	2.00	4.43		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.64	94.0	6.00	4.85		
Total BTEx	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	352	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: NSW - 1 6FT (H244693-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	544	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: ESW - 1 6FT (H244693-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEx	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SSW - 1 6FT (H244693-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: WSW - 2 6FT (H244693-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEx	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	416	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: NSW - 2 6FT (H244693-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	496	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: ESW - 2 6' (H244693-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27	
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21	
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80	
Total BTX	<0.300	0.300	08/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	416	16.0	08/07/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SSW - 2 6' (H244693-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEx	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	496	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 1 3' (H244693-13)

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	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEx	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 3 3' (H244693-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEx	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	560	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2024	ND	206	103	200	1.26	
DRO >C10-C28*	<10.0	10.0	08/07/2024	ND	195	97.5	200	0.315	
EXT DRO >C28-C36	<10.0	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 66.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: HZ - 4 3' (H244693-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEx	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	272	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2024	ND	206	103	200	1.41	
DRO >C10-C28*	<10.0	10.0	08/07/2024	ND	197	98.7	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/07/2024	ND					

Surrogate: 1-Chlorooctane 60.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S 2 6' (H244693-16)

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	08/07/2024	ND	1.88	93.9	2.00	3.27		
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48		
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21		
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80		
Total BTEX	<0.300	0.300	08/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	288	16.0	08/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	190	95.0	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	181	90.5	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 55.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.6 % 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: 08/05/2024
Reported: 08/09/2024
Project Name: PRONGHORN SWD #1
Project Number: NOT GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 08/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: S 3 6' (H244693-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.27	
Toluene*	<0.050	0.050	08/07/2024	ND	1.88	93.9	2.00	3.48	
Ethylbenzene*	<0.050	0.050	08/07/2024	ND	1.95	97.5	2.00	2.21	
Total Xylenes*	<0.150	0.150	08/07/2024	ND	5.77	96.2	6.00	1.80	
Total BTEX	<0.300	0.300	08/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/07/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	190	95.0	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	181	90.5	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

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 cursive script, 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		P.O. #:		BILL TO																													
Project Manager: Chris Jones		Company: Spur		ANALYSIS REQUEST																													
Address: 1601 N. Turner St., Ste 500		Attn: Brady Moulder																															
City: Hobbs		Address:																															
Phone #: 575-964-7814		City:																															
Fax #:		State:																															
Project #:		Zip:																															
Project Name: Pronghorn SWD		Phone #:																															
Project Location: Eddy County		Fax #:																															
Sample Name: Avial Power																																	
FOR LAB USE ONLY																																	
Lab I.D. #25																																	
Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPI+		BTEx		Chlorides	
B-1 1ft																								8/1/24									
B-2 1ft																																	
B-1 6ft																																	
B-2 6ft																																	
WSW-1 6ft																																	
WSW-1 6ft																																	
SSW-1 6ft																																	
WSW-2 6ft																																	
WSW-2 6ft																																	
1744083																																	
PLEASE NOTE: Liability and damages. Original's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: [Signature]		Date: 8/2/24		Received By: [Signature]		Time: 11:23		Sample Condition: Cool Intact		CHECKED BY: [Signature]		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: []		Add'l Fax #: []		REMARKS:											
Delivered By: (Circle One)		2.0 C / 68.0 F		Sample Condition: Cool Intact		CHECKED BY: [Signature]		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: []		Add'l Fax #: []		REMARKS:																	
Sampler - UPS - Bus - Other:		1.4 C		Sample Condition: Cool Intact		CHECKED BY: [Signature]		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: []		Add'l Fax #: []		REMARKS:																	

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



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

July 23, 2025

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: PRONGHORN SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/17/25 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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: 07/17/2025
Reported: 07/23/2025
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BACKFILL - 1 (H254317-01)

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	07/20/2025	ND	2.00	99.8	2.00	0.330		
Toluene*	<0.050	0.050	07/20/2025	ND	2.05	102	2.00	0.596		
Ethylbenzene*	<0.050	0.050	07/20/2025	ND	2.03	101	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/20/2025	ND	5.94	99.0	6.00	1.27		
Total BTEX	<0.300	0.300	07/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2025	ND	194	96.8	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/19/2025	ND	189	94.3	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	07/19/2025	ND					

Surrogate: 1-Chlorooctane 73.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.9 % 40.6-153

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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: 07/17/2025
Reported: 07/23/2025
Project Name: PRONGHORN SWD #1
Project Number: NONE GIVEN
Project Location: SPUR - EDDY, NM

Sampling Date: 07/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BACKFILL - 2 (H254317-02)

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	07/20/2025	ND	2.00	99.8	2.00	0.330		
Toluene*	<0.050	0.050	07/20/2025	ND	2.05	102	2.00	0.596		
Ethylbenzene*	<0.050	0.050	07/20/2025	ND	2.03	101	2.00	1.40		
Total Xylenes*	<0.150	0.150	07/20/2025	ND	5.94	99.0	6.00	1.27		
Total BTEX	<0.300	0.300	07/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2025	ND	194	97.0	200	1.96	
DRO >C10-C28*	20.0	10.0	07/19/2025	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	07/19/2025	ND					

Surrogate: 1-Chlorooctane 66.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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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

Action 508027

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508027
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418556332
Incident Name	NAPP2418556332 PRONGHORN SWD #1 @ 30-025-32735
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-32735] PRONGHORN SWD #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PRONGHORN SWD #1
Date Release Discovered	07/02/2024
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	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: High Line Pressure Flow Line - Injection Produced Water Released: 218 BBL Recovered: 210 BBL Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	HIGH PRESSURE ON AN INJECTION WELL DISCHARGE LINE CAUSED THE RELEASE OF 210 BBLs OF PW INTO LINED CONTAINMENT AND 8 BBLs OF PW ONTO THE LOCATION PAD

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QUESTIONS, Page 2

Action 508027

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508027
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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: 09/22/2025
--	--

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QUESTIONS, Page 3

Action 508027

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508027
	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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	25600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	156.4
GRO+DRO (EPA SW-846 Method 8015M)	108
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	07/29/2024
On what date will (or did) the final sampling or liner inspection occur	07/17/2025
On what date will (or was) the remediation complete(d)	07/17/2025
What is the estimated surface area (in square feet) that will be reclaimed	400
What is the estimated volume (in cubic yards) that will be reclaimed	20
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	20

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

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

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QUESTIONS, Page 4

Action 508027

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508027
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	fEEM0112342028 LEA LAND LANDFILL
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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 09/22/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 508027

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508027
	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 508027

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	508027
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	484738
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/17/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	400
What was the total volume (cubic yards) remediated	20
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	400
What was the total volume (in cubic yards) reclaimed	20
Summarize any additional remediation activities not included by answers (above)	CONTAMINATED SOIL WAS REMOVED IN ACCORDANCE WITH THE CLOSURE CRITERIA SET FORTH BY NMOCD
<i>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>	
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: 09/22/2025

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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QUESTIONS, Page 7

Action 508027

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508027
	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 508027

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 508027
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	12/2/2025