Spill Volume(Bbls) Calculator *Inputs in blue , Outputs in red*		
Length(Ft)	Width(Ft)	Depth(In)
50.000	30.000	3.000
Cubic Feet Impacted		375.000
Barrels		66.79
Soil Type		Sand
Bbls Assuming 100% Saturation		13.36
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		13.40000

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)	50
Width (ft)	30
Depth (in)	3.000

April 24, 2024

NMOCD District 2
Mike Bratcher
Artesia, NM 88210

Bureau of Land Management
Crisha Morgan
Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure Request
Yale St #3 Battery
API No. N/A
GPS: Latitude 32.85720 Longitude -103.94510
UL "N", Sec. 2, T17S, R30E
Eddy County, NM
NMOCD Ref. No. nAPP2301740961

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 Yale St. #3 Battery (Yale). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	**Volume of Release:**	14 bbls
		Volume Recovered:	12 bbls
Source of Release:	Transfer Line	**Date of Release:**	1/12/23
Was Immediate Notice Given?	No	**If, Yes, to Whom?**	N/A
Was a Watercourse Reached?	No	**If Yes, Volume Impacting Watercourse:**	N/A
Surface Owner:	Federal	**Mineral Owner:**	Federal
Defective nipple on the transfer line developed a hole due to corrosion and released produced water into the pasture.			

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

REGULATORY FRAMEWORK & SITE CHARACTERIZATION

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

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

Since this spill affected the pasture, we cleaned it up to the most stringent criteria of 600/100 mg/kg.

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 >5 mi
- Categorize the risk of this well/site being in a karst area geology Low
- A 100-year floodplain 1/2-1 mi
- Did the release impact areas not on an exploration, development, production, or storage site Yes

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayed 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). According to the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Simona Gravelly Fine Sandy Loam, with 0 to 3 percent slopes. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Yale (Figure #3).

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

INITIAL SITE ASSESSMENT

On February 13th, 2023, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had come out of the transfer line and ran down into the pasture. Eight (8) soil samples were collected in this area in an effort to determine the vertical and horizontal 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:

2-13-23 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 2-13-23	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria ≤600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S 1 0-6"	ND	ND	ND	**156**	56.9	**212.9**	**3760**
S 1 1'	ND	ND	ND	15.7	ND	15.7	**4720**
S 1 2'	ND	ND	ND	ND	ND	ND	**7860**
S 1 3'	ND	ND	ND	ND	ND	ND	**7330**
S 1 4'	ND	ND	ND	ND	ND	ND	**6320**
S 2 0-6"	ND	ND	ND	ND	ND	ND	**3760**
S 2 1'	ND	ND	ND	ND	ND	ND	**4960**
S 2 2'	ND	ND	ND	ND	ND	ND	**8260**
S 2 3'	ND	ND	ND	ND	ND	ND	**8530**
S 2 4'	ND	ND	ND	ND	ND	0	**7600**
S 3 0-6"	ND	ND	ND	25.4	ND	25.4	**640**
S 3 1'	ND	ND	ND	ND	ND	ND	**9330**
S 3 2'	ND	ND	ND	ND	ND	ND	**11900**
S 3 3'	ND	ND	ND	ND	ND	ND	**11700**
S 3 4'	ND	ND	ND	ND	ND	ND	**8960**
S 4 0-6"	ND	ND	ND	ND	ND	ND	16
S 5 0-6"	ND	ND	ND	ND	ND	ND	32
S 6 0-6"	ND	ND	ND	ND	ND	ND	32
S 7 0-6"	ND	ND	ND	ND	ND	ND	16
S 8 0-6"	ND	ND	ND	ND	ND	ND	32

(ND) - Analyte Not Detected

A Site Map is provided in Figure #1. Laboratory results can be found in Appendix D.

REMEDIATION ACTIVITIES

On March 18th, 2024, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following details the remedial activities we conducted to advance the Release Site toward an NMOCD-approved site closure.

Our remediation began by excavating in the areas of S-1, S-2, and S-3 to 5' BGS. This area measured approximately 2046 S/F. We excavated approximately 378 C/Y of material that was disposed of at Lea Land. We obtained sandy backfill material from a localized pit. An email notification was sent to the NMOCD prior to obtaining confirmation samples, see Appendix C. We utilized 5-point bottom composite sampling and sidewall composite sampling. Each bottom sample was representative of no more than 200 S/F, and each sidewall sample was representative of no more than 50 S/F. The results of this sampling event are in the following data table.

4-16-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 4-16-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
ESW - 1 5'	ND	ND	ND	ND	ND	0	16
ESW - 2 5'	ND	ND	ND	ND	ND	0	240
NSW - 1 5'	ND	ND	ND	ND	ND	0	32
NSW - 2 5'	ND	ND	ND	ND	ND	0	256
S - 1 5'	ND	ND	ND	ND	ND	0	208
S - 10 5'	ND	ND	ND	ND	ND	0	112
S - 11 5'	ND	ND	ND	ND	ND	0	48
S - 2 5'	ND	ND	ND	ND	ND	0	48
S - 3 5'	ND	ND	ND	ND	ND	0	224
S - 4 5'	ND	ND	ND	ND	ND	0	48
S - 5 5'	ND	ND	ND	ND	ND	0	16
S - 6 5'	ND	ND	ND	ND	ND	0	48
S - 7 5'	ND	ND	ND	ND	ND	0	112
S - 8 5'	ND	ND	ND	ND	ND	0	32
S - 9 5'	ND	ND	ND	ND	ND	0	240
SSW - 1 5'	ND	ND	ND	ND	ND	0	ND
SSW - 2 5'	ND	ND	ND	ND	ND	0	144
SSW - 3 5'	ND	ND	ND	ND	ND	0	32
WSW - 1 5'	ND	ND	ND	ND	ND	0	208
WSW - 2 5'	ND	ND	ND	ND	ND	0	32
WSW - 3 5'	ND	ND	ND	ND	ND	0	224
WSW - 4 5'	ND	ND	ND	ND	ND	0	112

(ND) Analyte Not Detected

These laboratory analytical results showed that the confirmation soil sample concentrations were below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled, contoured, and machine-compacted to match the surrounding grade.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2301740961, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

If you have any questions or need additional information, please get in touch with Tristan Jones by phone at (575)318-6841 or email at tristan@paragonenvironmental.net.

Respectfully,

Tristan Jones
Project Coordinator
Paragon Environmental, LLC

Chris Jones
Environmental Professional
Paragon Environmental, LLC

Attachments

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

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

PARAGON ENVIRONMENTAL

Figures:

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

Spur Energy Partners

Yale ST #3 Battery
API# 30-015-37452
Eddy County, NM
Site Map

Spur Energy Partners

Yale St #3 Battery
API # 30-015-37452
Eddy County, NM
TOPO Map

Legend

- Yale St #3 Battery

Received by OCD: 5/21/2024 12:33:28 PM

Spur Energy Partners

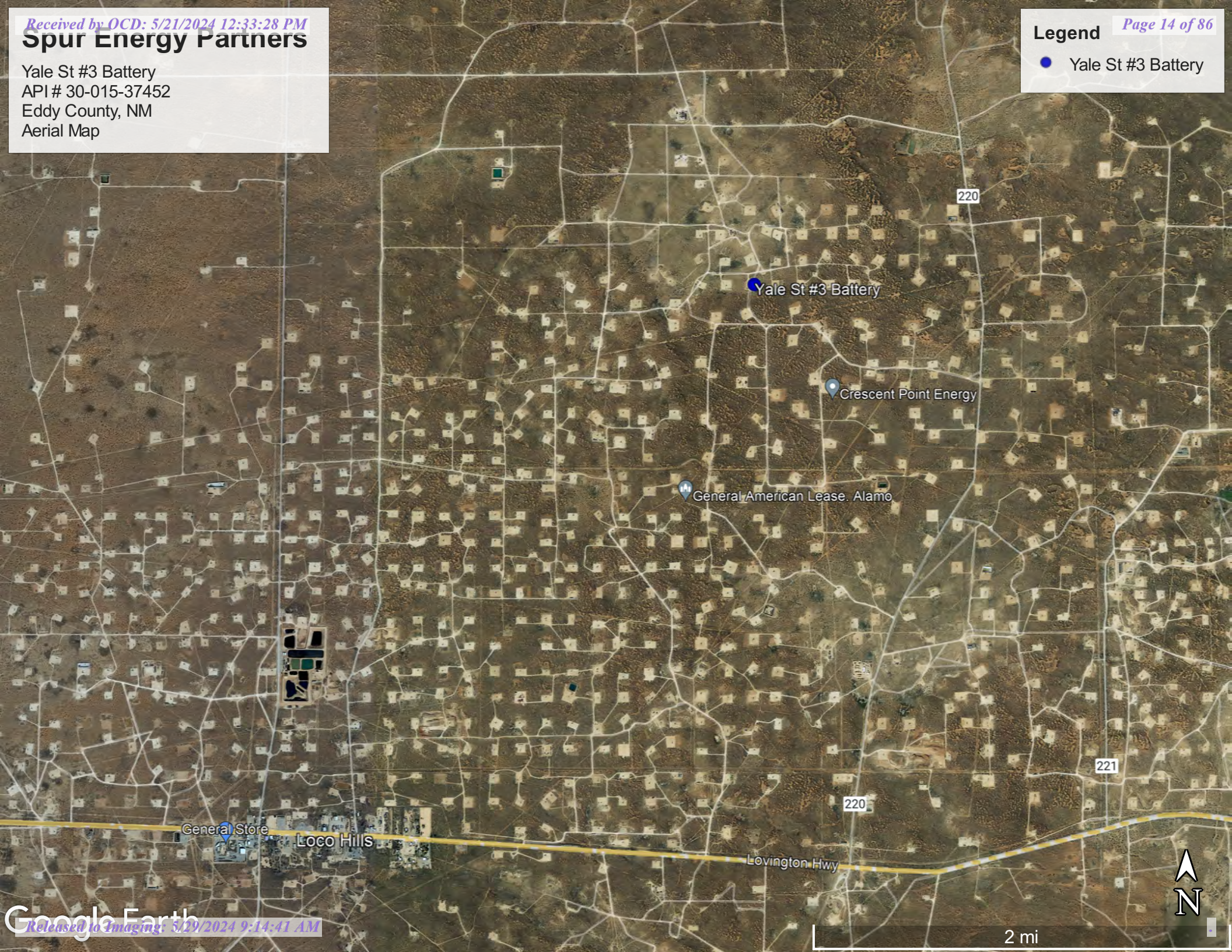
Yale St #3 Battery
API # 30-015-37452
Eddy County, NM
Karst Map

Released to Imaging: 5/29/2024 9:14:41 AM

Received by OCD: 5/21/2024 12:33:28 PM

Spur Energy Partners

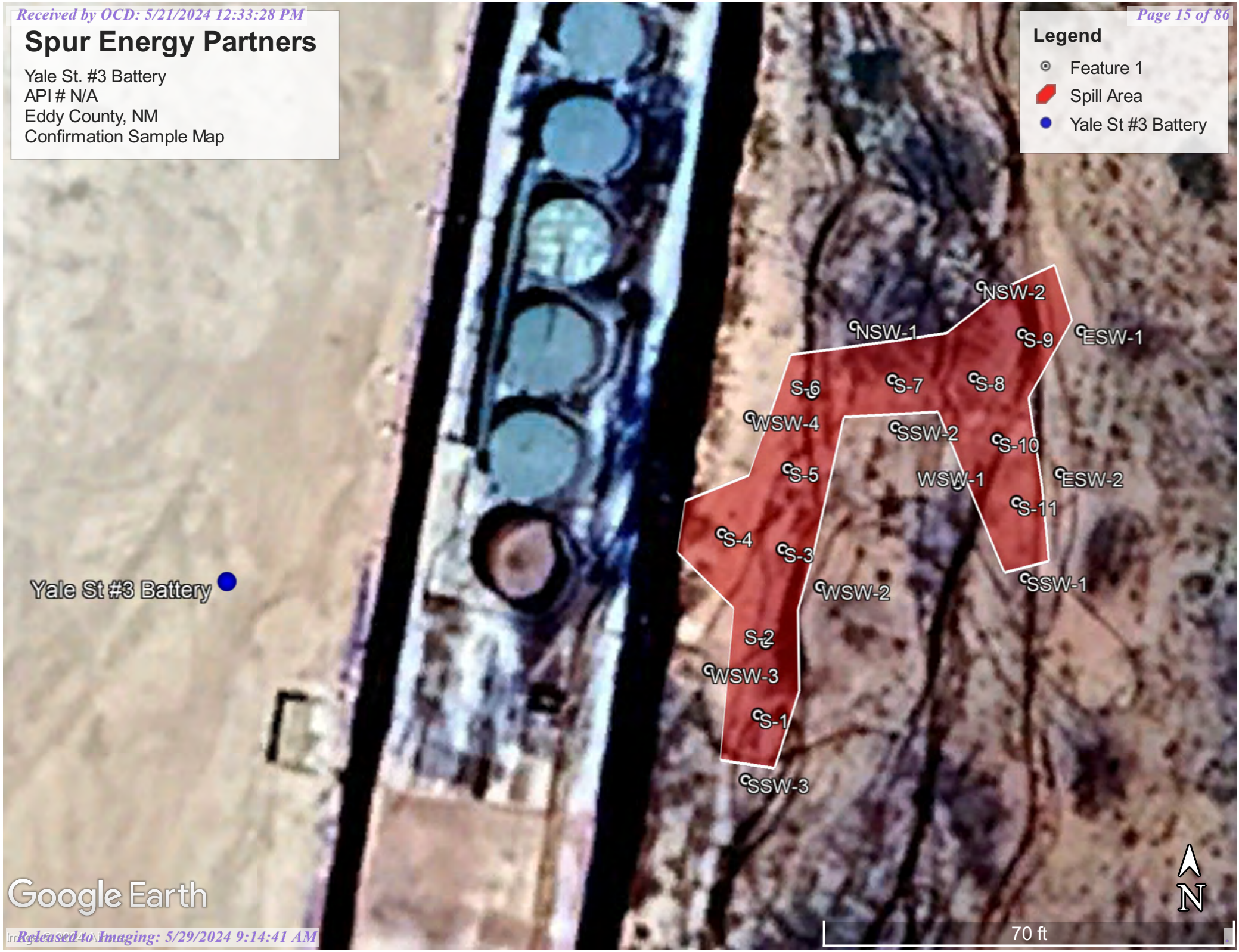
Yale St #3 Battery
API # 30-015-37452
Eddy County, NM
Aerial Map



Released to Imaging: 5/29/2024 9:14:41 AM

Spur Energy Partners

Yale St. #3 Battery
API # N/A
Eddy County, NM
Confirmation Sample Map



PARAGON ENVIRONMENTAL

Appendix A
Referenced Water Data:

New Mexico State of Engineers Office

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 13212 POD1		RA	CH	1	3	4	11	17S	30E	598984	3634474	1501			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 598705.165 **Northing (Y):** 3635949.708 **Radius:** 1600

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

3/1/23 10:59 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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

April 14, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record RA-13319 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, RA-13319 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

OSE DII AUG 29 2023 PM2:05

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	RA-13319

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Spur Energy Partners LLC	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
9655 Katy Freeway, Suite 500	Houston	TX	77024

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	51	25.10	N
	LONGITUDE	103	56	59.71	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

SW SW SW Sec. 02 T17S R30E, NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/15/2023	8/15/2023	Temporary Well Material	±101	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 8/23/2023

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	101	±6.25	Soil Boring	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Sand, fine-grained poorly grained, Brown	Y ✓ N	
4	30	26	Sand, fine-grained poorly grained, with caliche Brown	Y ✓ N	
30	60	60	Sand, fine-grained poorly grained, semi-cemented, Brown	Y ✓ N	
60	95	35	Clay, friable with fine-grained sand, Brown	Y ✓ N	
95	101	6	Clay, Stiff, medium plasticity, Dark Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

OSE DIT AUG 29 2023 PM2:06

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 8/29/2023

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: RA-13319 POD-1

Well owner: Spur Energy Partners LLC Phone No.: 832-930-8502

Mailing address: 9655 Katy Freeway, Suite 500

City: Houston State: Texas Zip code: 77024

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cameron Pruitt

4) Date well plugging began: 8/23/2023 Date well plugging concluded: 8/23/2023

5) GPS Well Location: Latitude: 32 deg, 51 min, 25.10 sec
Longitude: 103 deg, 56 min, 59.71 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 4/25/2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT AUG 29 2023 PM2:06

Version: September 8, 2009
Page 1 of 2

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

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
	10'-101' Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

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

OSE DII AUG 23 2023 PM2:05

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins — Signature of Well Driller

8/29/2023 — Date

Version: September 8, 2009
Page 2 of 2

2023-08-29-RA-13339-packet-forsign

Final Audit Report 2023-08-29

Created:	2023-08-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAARJfnFA8sxelWRMBRDy3khmxsOsOiYmlb

"2023-08-29-RA-13339-packet-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2023-08-29 - 4:04:07 PM GMT- IP address: 24.52.18.211

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-08-29 - 4:05:43 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2023-08-29 - 4:27:24 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-08-29 - 4:38:00 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2023-08-29 - 4:38:00 PM GMT

OSE DIT AUG 29 2023 PM2:05

Adobe Acrobat Sign

PARAGON ENVIRONMENTAL

Appendix B
Soil Survey:

U.S.D.A.

FEMA Flood Map

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w5w
Elevation: 2,750 to 5,000 feet
Mean annual precipitation: 8 to 16 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam
H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 4 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Playa

Percent of map unit: 1 percent
Landform: Playas
Landform position (three-dimensional): Talf
Down-slope shape: Concave, convex
Across-slope shape: Concave, linear
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: Yes

Data Source Information

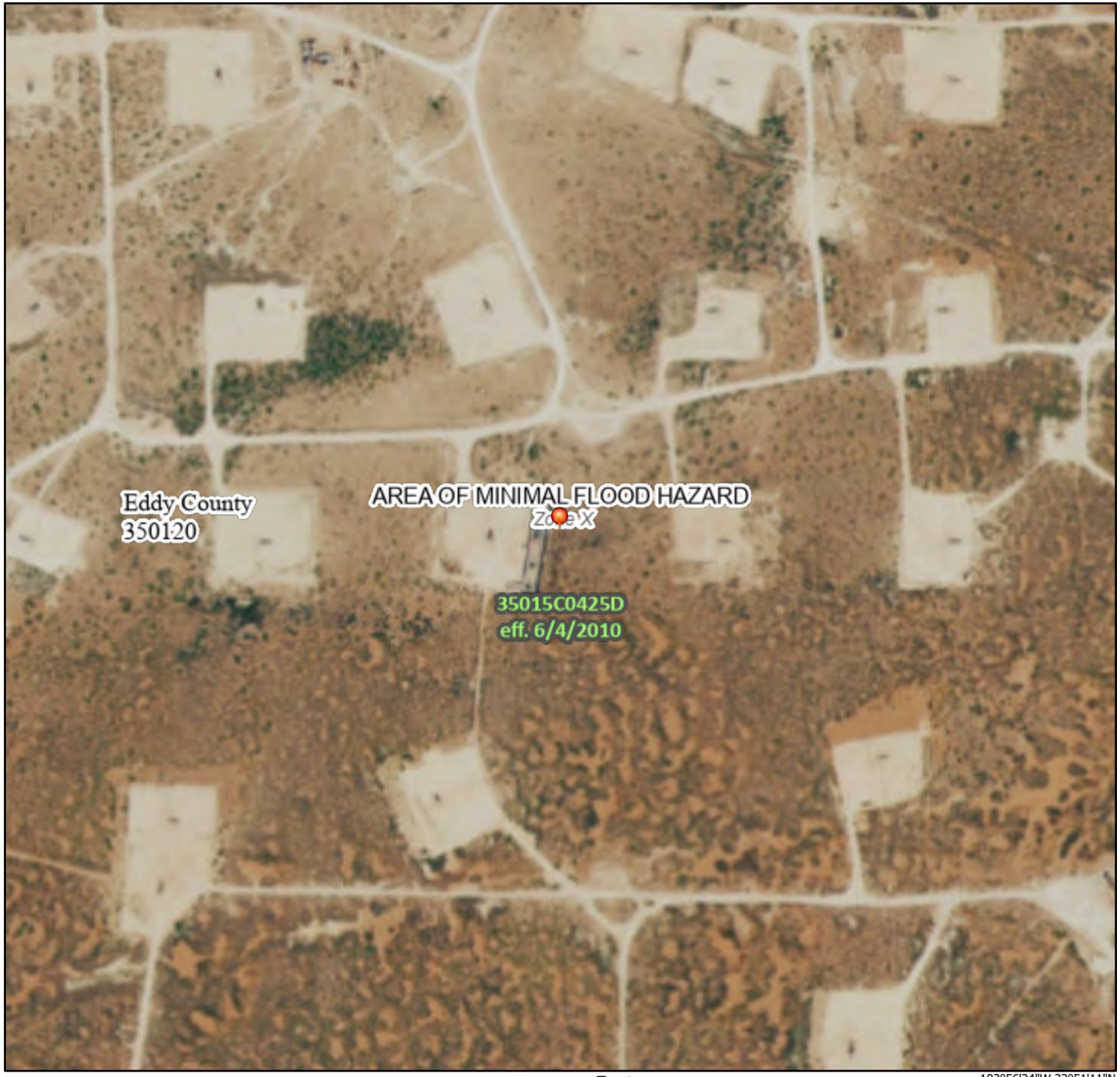
Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

Received by OCD: 5/21/2024 12:33:28 PM

National Flood Hazard Layer FIRMette

FEMA

103°57'1"W 32°51'41"N



103°56'24"W 32°51'11"N

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

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

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

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/1/2023 at 1:01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 5/29/2024 9:14:41 AM

PARAGON ENVIRONMENTAL

Appendix C:

OCD Notification

Photographic Documentation

Gmail

Angel Pena <angel@paragonenvironmental.net>

The Oil Conservation Division (OCD) has accepted the application, Application ID: 332852

<OCDOnline@state.nm.us> Fri, Apr 12 at 9:05 AM
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#) nAPP2301740961.

The sampling event is expected to take place:

When: 04/16/2024 @ 10:00
Where: N-02-17S-30E 0 FNL 0 FEL (32.85721,-103.94511)

Additional Information: Jeremy Maner
575-602-4231

Additional Instructions: 32.8572,-103.9451

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

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

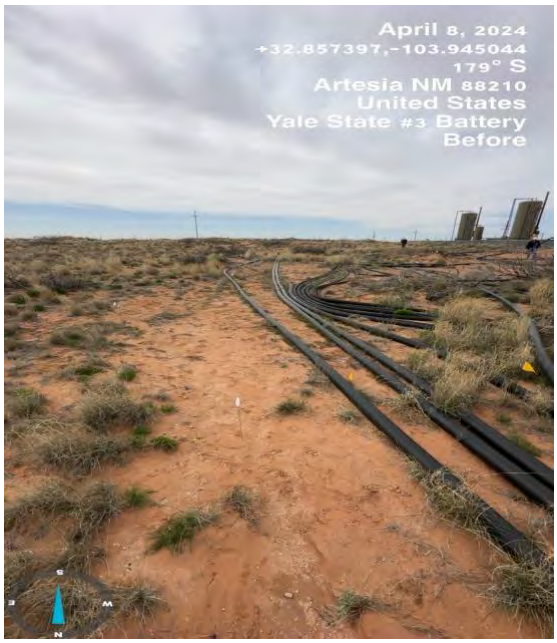
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

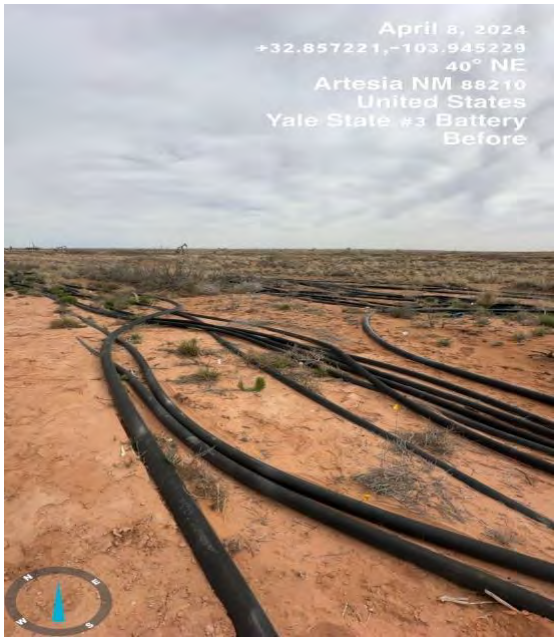
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

PARAGON ENVIRONMENTAL

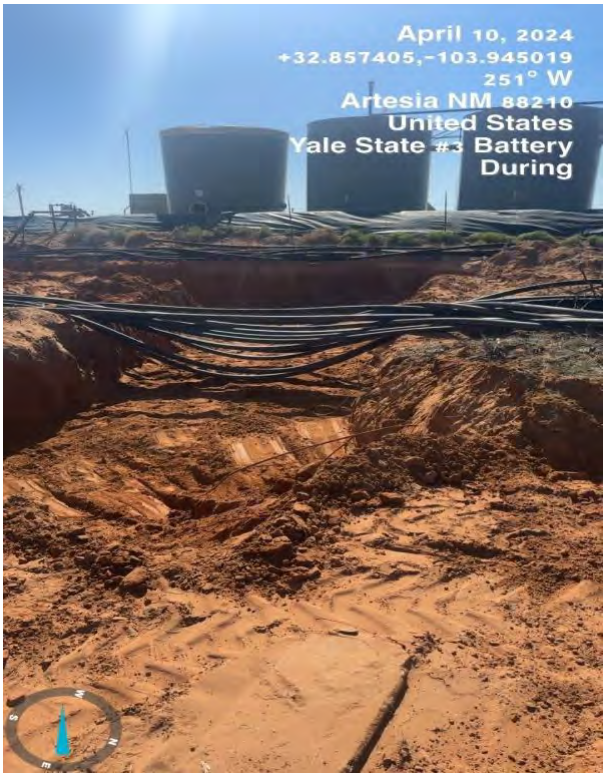
Photographic Documentation

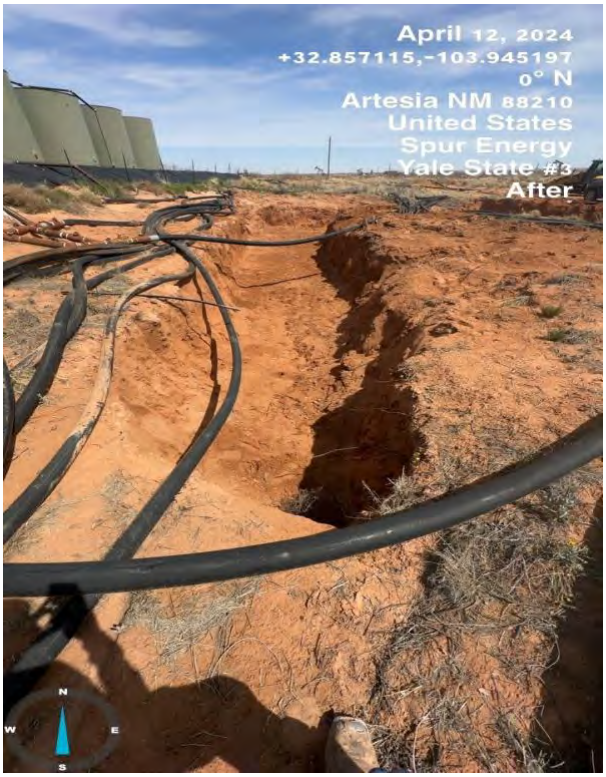
Before Remediation

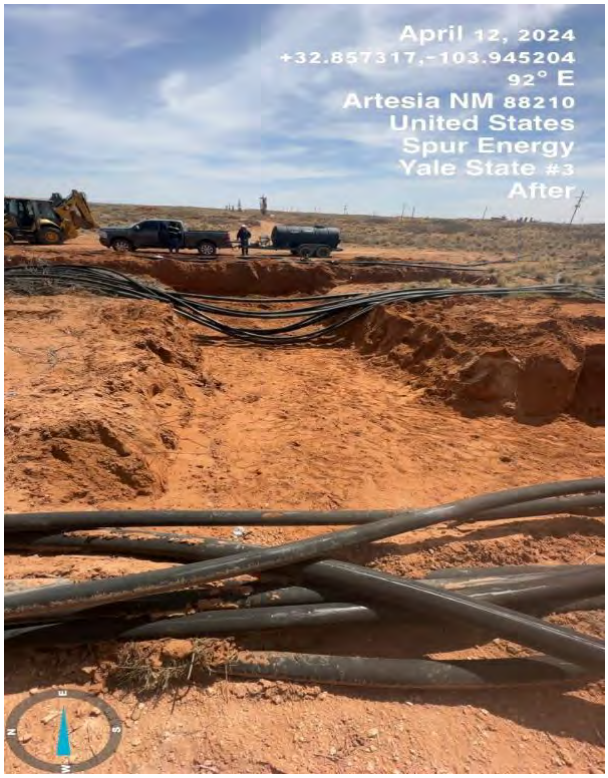


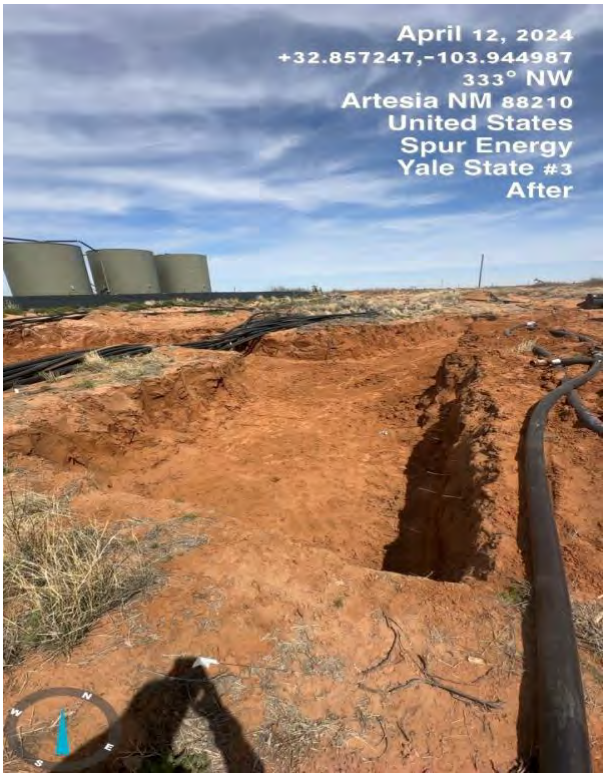


During Remediation

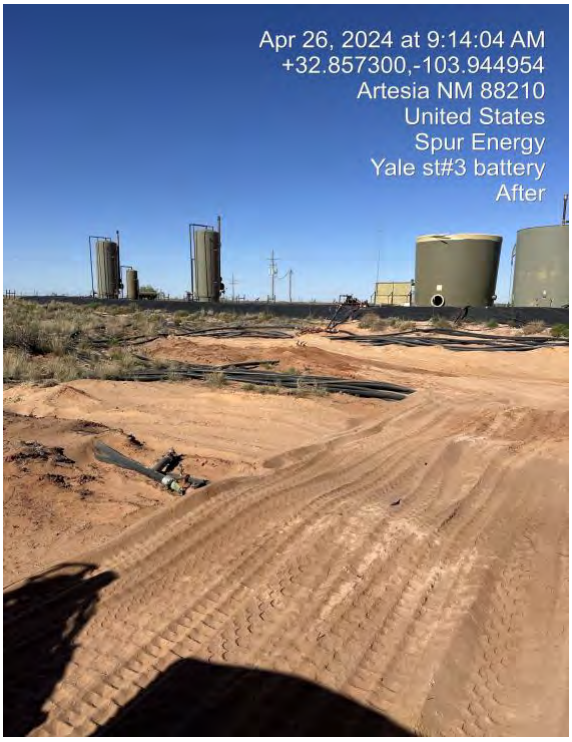


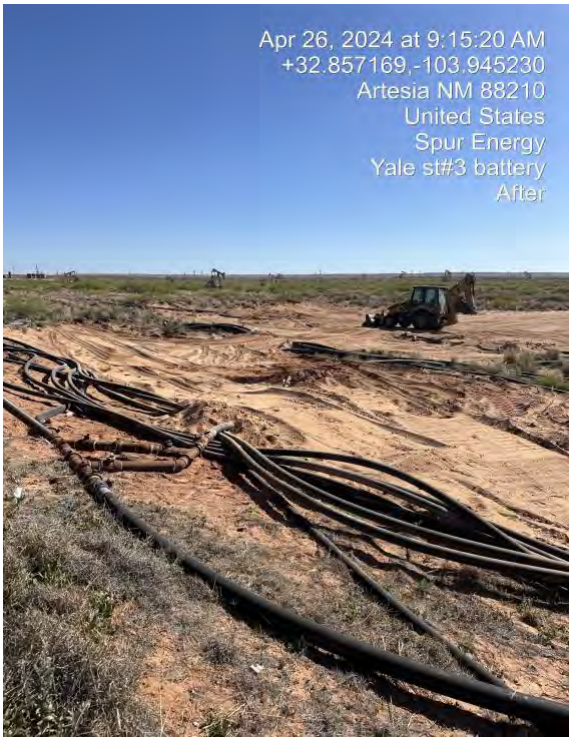


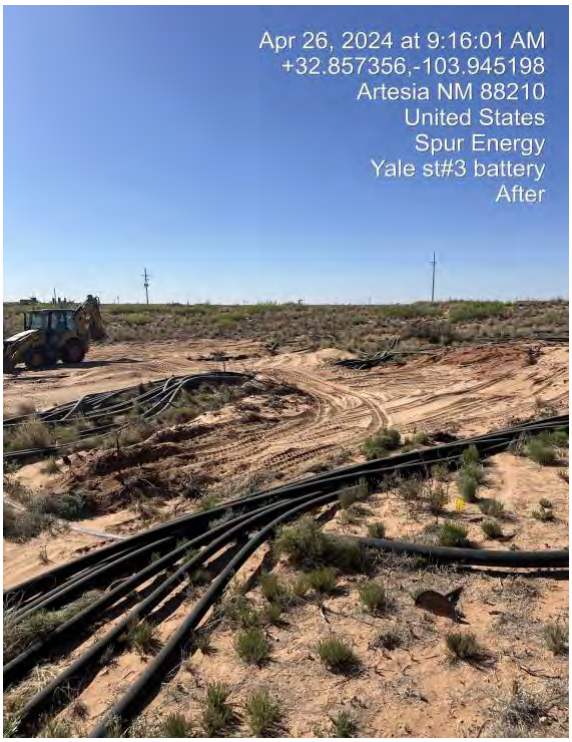


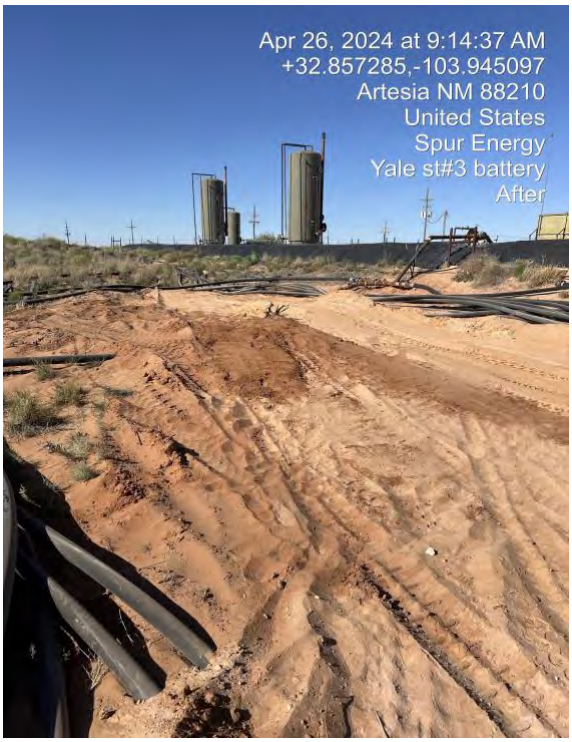


Post Remediation









PARAGON ENVIRONMENTAL

Appendix D:

Laboratory Results

CARDINAL Laboratories

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

February 27, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: YALE STATE 3

Enclosed are the results of analyses for samples received by the laboratory on 02/15/23 9:35.

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

Cardinal Laboratories is accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 1 0-6'' (H230701-01)

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	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.5 %* *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	**3760**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	**156**	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	**56.9**	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *91.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 1 1' (H230701-02)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4720**	16.0	02/21/2023	ND	400	100	400	3.92	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	224	112	200	0.363	
DRO >C10-C28*	**15.7**	10.0	02/20/2023	ND	230	115	200	0.0517	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane	*77.3 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*85.6 %*	*49.1-148*

Sample ID: S 1 2' (H230701-03)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7860**	16.0	02/23/2023	ND	432	108	400	0.00	

Sample ID: S 1 3' (H230701-04)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7330**	16.0	02/24/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 1 4' (H230701-05)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6320**	16.0	02/27/2023	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 2 0-6" (H230701-06)

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	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3760**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *92.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.6 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 2 1' (H230701-07)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4960**	16.0	02/21/2023	ND	400	100	400	3.92	

Sample ID: S 2 2' (H230701-08)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8260**	16.0	02/23/2023	ND	432	108	400	0.00	

Sample ID: S 2 3' (H230701-09)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8530**	16.0	02/24/2023	ND	432	108	400	0.00	

Sample ID: S 2 4' (H230701-10)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7600**	16.0	02/27/2023	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 3 0-6" (H230701-11)

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	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *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	**640**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	**25.4**	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *94.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 3 1' (H230701-12)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9330**	16.0	02/21/2023	ND	400	100	400	3.92	

Sample ID: S 3 2' (H230701-13)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11900**	16.0	02/23/2023	ND	432	108	400	0.00	

Sample ID: S 3 3' (H230701-14)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11700**	16.0	02/24/2023	ND	432	108	400	0.00	

Sample ID: S 3 4' (H230701-15)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8960**	16.0	02/27/2023	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 4 0-6" (H230701-16)

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	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *91.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 5 0-6" (H230701-21)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *92.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.2 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 6 0-6" (H230701-26)

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	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *124 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 7 0-6" (H230701-31)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *91.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/13/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY		

Sample ID: S 8 0-6" (H230701-36)

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	02/19/2023	ND	2.05	103	2.00	0.311	
Toluene*	<0.050	0.050	02/19/2023	ND	2.14	107	2.00	1.94	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	2.11	105	2.00	2.29	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.37	106	6.00	2.33	
Total BTEX	<0.300	0.300	02/19/2023	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	**32.0**	16.0	02/16/2023	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane *90.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.0 %* *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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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

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 Energy
Project Name: Yale St 3
Project Location: Eddy, NM
Sampler Name: Tristan Jones

BILL TO
P.O. #:
Company: Spur Energy
Attn: Kathy Purvis
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TPH EXT	Chlorides	BTEX	Hold		Cl added 2/20/23	TPH added 2/20/23	Cl added 2/21/23	Cl added 2/23/23	Cl added 2/24/23		
H230701																										
1	S1 0-6"	G	1			✓					✓		2/13/23		✓	✓	✓	✓		X	X					
2	S1 1'																	✓				X				
3	S1 2'																	✓					X			
4	S1 3'																	✓						X		
5	S1 4'																	✓								
6	S2 0-6"																	✓		X						
7	S2 1'																	✓				X				
8	S2 2'																	✓					X			
9	S2 3'																	✓						X		
10	S2 4'																	✓								

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Relinquished By: Date: 2-15-23 Time: 0935 Received By: Tamara Oldaker
Relinquished By: Date: Time: Received By:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Dont test deeper if the level gets below: 600 mg/Kg Chloride
100 mg/Kg TPH EXT
50 mg/Kg BTEX (total)
10 mg/Kg Benzene

Delivered By: (Circle One) #113
Sampler - UPS - Bus - Other: -2.6c / -3.2
Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials) TO.

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

Received by OCD: 5/21/2024 12:33:28 PM

Released to Imaging: 5/29/2024 9:14:41 AM

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:
Project Name:
Project Location:
Sampler Name:

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TPH EXT	Chlorides	BTEX	Hold								
H230701																										
11	S3 0-6"	G	1			✓					✓		2/13/23		✓	✓	✓	✓	✓							
12	S3 1'		1			✓					✓							✓		✓						
13	S3 2'		1			✓					✓							✓			✓					
14	S3 3'		1			✓					✓							✓				✓				
15	S3 4'		1			✓					✓							✓								
16	S4 0-6"		1			✓					✓							✓								
17	S4 1'		1			✓					✓							✓								
18	S4 2'		1			✓					✓							✓								
19	S4 3'		1			✓					✓							✓								
20	S4 4'		1			✓					✓							✓								

Cl added 2/20/23
Cl added 2/21/23
Cl added 2/23/23
Cl added 2/24/23

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Relinquished By: Date: 2-15-23 Time: 0935 Received By:
Relinquished By: Date: Time: Received By:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 -2.6c / 3.2c
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

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

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

Received by OCD: 5/21/2024 12:33:28 PM

Released to Imaging: 5/29/2024 9:14:41 AM

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	**BILL TO**
Project Manager: Chris Jones	P.O. #:
Address: 1601 N. Turner St., Ste 500	Company:
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-964-7814 Fax #:	Address:
Project #: Project Owner:	City:
Project Name:	State: Zip:
Project Location:	Phone #:
Sampler Name:	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TPH EXT	Chlorides	BTEX	Hold
H230701																		
21	S5 0-6"	G	1			X					X		2/15/23		X	X	X	X
22	S5 1'					X					X		X		X	X	X	X
23	S5 2'					X					X		X		X	X	X	X
24	S5 3'					X					X		X		X	X	X	X
25	S5 4'					X					X		X		X	X	X	X
26	S6 0-6"					X					X		X		X	X	X	X
27	S6 1'					X					X		X		X	X	X	X
28	S6 2'					X					X		X		X	X	X	X
29	S6 3'					X					X		X		X	X	X	X
30	S6 4'					X					X		X		X	X	X	X

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Relinquished By:	Date: 2-15-23 Time: 0935	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #: REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 -2.6c / 3.2c	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	

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

Received by OCD: 5/21/2024 12:33:28 PM

Released to Imaging: 5/29/2024 9:14:41 AM

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	**BILL TO**
Project Manager: Chris Jones	P.O. #:
Address: 1601 N. Turner St., Ste 500	Company:
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-964-7814 Fax #:	Address:
Project #: Project Owner:	City:
Project Name:	State: Zip:
Project Location:	Phone #:
Sampler Name:	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TPH EXT	Chlorides	BTEX	Hold
H230701																		
31	S7 0-6"	G	1			✓					✓		2/8/23		✓	✓	✓	✓
32	S7 1'																	
33	S7 2'																	
34	S7 3'																	
35	S7 4'																	
36	S8 0-6"																	
37	S8 1'																	
38	S8 2'																	
39	S8 3'																	
40	S8 4'																	

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Relinquished By:	Date: 2-15-23	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 0935		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) #113	Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -2.6c/-3.2c			

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

Received by OCD: 5/21/2024 12:33:28 PM

Released to Imaging: 5/29/2024 9:14:41 AM

CARDINAL Laboratories

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

April 22, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: YALE STATE 3

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 16:32.

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

Cardinal Laboratories is accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 1 5' (H242018-01)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**208**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 2 5' (H242018-02)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.8 %* *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	**48.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 3 5' (H242018-03)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**224**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *109 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 4 5' (H242018-04)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**48.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 5 5' (H242018-05)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**16.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *95.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.6 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 6 5' (H242018-06)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**48.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/18/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *117 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 7 5' (H242018-07)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**112**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/18/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 8 5' (H242018-08)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**32.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/18/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane *116 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *119 %* *49.1-148*

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Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 9 5' (H242018-09)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**240**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2024	ND	203	102	200	0.306	
DRO >C10-C28*	<10.0	10.0	04/18/2024	ND	211	106	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane *107 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 10 5' (H242018-10)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	**112**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *111 %* *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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: S - 11 5' (H242018-11)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**48.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.1 %* *49.1-148*

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Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: NSW - 1 5' (H242018-12)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**32.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: NSW - 2 5' (H242018-13)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**256**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.6 %* *49.1-148*

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Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: ESW - 1 5' (H242018-14)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	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	**16.0**	16.0	04/18/2024	ND	464	116	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *107 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: ESW - 2 5' (H242018-15)

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	04/18/2024	ND	2.02	101	2.00	1.69	
Toluene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	4.43	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.00	99.9	2.00	7.26	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	5.84	97.4	6.00	7.89	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: SSW - 1 5' (H242018-16)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	5.85	
Toluene*	<0.050	0.050	04/18/2024	ND	2.29	114	2.00	3.67	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.44	122	2.00	2.98	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.32	122	6.00	3.62	
Total BTEX	<0.300	0.300	04/18/2024	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	<16.0	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *99.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: SSW - 2 5' (H242018-17)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	5.85	
Toluene*	<0.050	0.050	04/18/2024	ND	2.29	114	2.00	3.67	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.44	122	2.00	2.98	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.32	122	6.00	3.62	
Total BTEX	<0.300	0.300	04/18/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: SSW - 3 5' (H242018-18)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	5.85	
Toluene*	<0.050	0.050	04/18/2024	ND	2.29	114	2.00	3.67	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.44	122	2.00	2.98	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.32	122	6.00	3.62	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *99.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.8 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: WSW - 1 5' (H242018-19)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	5.85	
Toluene*	<0.050	0.050	04/18/2024	ND	2.29	114	2.00	3.67	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.44	122	2.00	2.98	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.32	122	6.00	3.62	
Total BTEX	<0.300	0.300	04/18/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: WSW - 2 5' (H242018-20)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	5.85	
Toluene*	<0.050	0.050	04/18/2024	ND	2.29	114	2.00	3.67	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.44	122	2.00	2.98	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.32	122	6.00	3.62	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.6 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: WSW - 3 5' (H242018-21)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	5.85	
Toluene*	<0.050	0.050	04/18/2024	ND	2.29	114	2.00	3.67	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.44	122	2.00	2.98	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.32	122	6.00	3.62	
Total BTEX	<0.300	0.300	04/18/2024	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	**224**	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *93.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	YALE STATE 3	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Brandi Bautista
Project Location:	SPUR - RURAL EDDY		

Sample ID: WSW - 4 5' (H242018-22)

BTEX 8021B **mg/kg** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	5.85	
Toluene*	<0.050	0.050	04/18/2024	ND	2.29	114	2.00	3.67	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.44	122	2.00	2.98	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.32	122	6.00	3.62	
Total BTEX	<0.300	0.300	04/18/2024	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	04/18/2024	ND	480	120	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	181	90.7	200	0.0110	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	176	88.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane *96.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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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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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

Company Name: Paragon Environmental
Project Manager: Cason Spurlock
Address: 5002 Carriage Rd
City: Hobbs State: NM Zip: 88242
Phone #: 575-631-6977 Fax #:
Project #: Project Owner: Spur
Project Name: Yale State #3
Project Location: Eddy
Sampler Name: Jeremy Maner

BILL TO
P.O. #:
Company: Spur
Attn: Bradley Malden
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TPH Ext.	BTEX	Chlorides
H242018 1	S.1 5'	C				✓					✓		04/16		✓	✓	✓
2	S.2 5'	✓				✓					✓		✓		✓	✓	✓
3	S.3 5'	✓				✓					✓		✓		✓	✓	✓
4	S.4 5'	✓				✓					✓		✓		✓	✓	✓
5	S.5 5'	✓				✓					✓		✓		✓	✓	✓
6	S.6 5'	✓				✓					✓		✓		✓	✓	✓
7	S.7 5'	✓				✓					✓		✓		✓	✓	✓
8	S.8 5'	✓				✓					✓		✓		✓	✓	✓
9	S.9 5'	✓				✓					✓		✓		✓	✓	✓
10	S.10 5'	✓				✓					✓		✓		✓	✓	✓

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Relinquished By: [signature] Date: 04/16 Time: 16:32 Received By: Brandi Bautista
Relinquished By: Date: Time: Received By:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -1.5°C #140
Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
CHECKED BY: (Initials) BB

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Email results to Chris Jones

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

Received by OCD: 5/21/2024 12:33:28 PM

Released to Imaging: 5/29/2024 9:14:41 AM

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	**BILL TO**
Project Manager: Cason Spurlock	P.O. #:
Address: 5002 Carriage Rd	Company: Spur
City: Hobbs State: NM Zip: 88242	Attn: Bradey Walder
Phone #: 575-631-6977 Fax #:	Address:
Project #: Project Owner: Spur	City:
Project Name: Vale State #3	State: Zip:
Project Location: Eddy	Phone #:
Sampler Name: Jeremy Maner	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TPH Ext.	BTEX	Chlorides
H242018																	
11	S-11 5'	C				✓					✓		04/16		✓	✓	✓
12	NSW-1 5'	✓				✓					✓		✓		✓	✓	✓
13	NSW-2 5'	✓				✓					✓		✓		✓	✓	✓
14	ESW-1 5'	✓				✓					✓		✓		✓	✓	✓
15	ESW-2 5'	✓				✓					✓		✓		✓	✓	✓
16	SSW-1 5'	✓				✓					✓		✓		✓	✓	✓
17	SSW-2 5'	✓				✓					✓		✓		✓	✓	✓
18	SSW-3 5'	✓				✓					✓		✓		✓	✓	✓
19	WSW-1 5'	✓				✓					✓		✓		✓	✓	✓
20	WSW-2 5'	✓				✓					✓		✓		✓	✓	✓

PLEASE NOTE: Liability and Damages. Cardinal'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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [signature]	Date: 04/16 Time: 16:32	Received By: Brandi Bautista	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
			REMARKS: Email results to Chris Jones
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #140 -1.5°C	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) BB	

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

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Released to Imaging: 5/29/2024 9:14:41 AM

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	**BILL TO**
Project Manager: Cason Spurlock	P.O. #:
Address: 5002 Carriage Rd	Company: Spur
City: Hobbs State: NM Zip: 88242	Attn: Bradey Molder
Phone #: 575-631-6977 Fax #:	Address:
Project #: Project Owner: Spur	City:
Project Name: Vale State #3	State: Zip:
Project Location: Eddy	Phone #:
Sampler Name: Jeremy Munoz	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH Ext	BTEX	Chlorides
H242018																	
21	WSW.3 5'	C	1			†					†		04/16		†	†	†
22	WSW.4 5'	1											1				

PLEASE NOTE: Liability and Damages. Cardinal'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 service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

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Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler UPS - Bus - Other: -1.5°C #140	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) BB	REMARKS: Email results to Chris Jones

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

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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 346361

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2301740961**
Incident Name	**NAPP2301740961 YALE STATE #3 BATTERY @ 30-015-37452**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-37452] YALE STATE #003**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	YALE STATE #3 BATTERY
Date Release Discovered	01/12/2023
Surface Owner	State

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: Other | Other (Specify) | Produced Water | Released: 14 BBL | Recovered: 12 BBL | Lost: 2 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)	DEFECTIVE NIPPLE ON THE TRANSFER LINE DEVELOPED A HOLE DUE TO CORROSION AND RELEASED PRODUCED WATER INTO THE PASTURE

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QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 05/21/2024

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QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	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	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	11900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	212.9
GRO+DRO (EPA SW-846 Method 8015M)	156
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/18/2024
On what date will (or did) the final sampling or liner inspection occur	04/16/2024
On what date will (or was) the remediation complete(d)	04/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	2046
What is the estimated volume (in cubic yards) that will be reclaimed	378
What is the estimated surface area (in square feet) that will be remediated	2046
What is the estimated volume (in cubic yards) that will be remediated	378
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 (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 05/21/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	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 (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**332852**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/16/2024**
What was the (estimated) number of samples that were to be gathered	**20**
What was the sampling surface area in square feet	**2046**

Remediation Closure Request *Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2046
What was the total volume (cubic yards) remediated	378
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	2046
What was the total volume (in cubic yards) reclaimed	378
Summarize any additional remediation activities not included by answers (above)	CONTAMINATED SOILS WERE REMOVED UNTIL THE MOST STRINGENT CRITERIA SET FORTH BY NMOCD WERE MET

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 05/21/2024

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QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	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

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 346361
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Areas not reasonably needed for production or drilling activities will need to be reclaimed and revegetated as early as practicable.	5/29/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/29/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	5/29/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	5/29/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	5/29/2024