



April 11, 2024

NMOCD District 2  
Mike Bratcher  
Artesia, NM 88210

Bureau of Land Management  
Crisha Morgan  
Carlsbad Field Office

**Re: Site Assessment, Remediation, and Closure Request**  
**Halberd Booster Pump**  
**API No. N/A**  
**GPS: Latitude 32.8167 Longitude -104.1534**  
**UL "L", Sec. 23, T17S, R28E**  
**Eddy County, NM**  
**NMOCD Ref. No. nAPP2336154693**

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 Halberd Booster Pump (Halberd). Details of the release are summarized below:

Release Details			
<b>Type of Release:</b>	Produced Water	<b>Volume of Release:</b>	48 bbls
		<b>Volume Recovered:</b>	46 bbls
<b>Source of Release:</b>	Booster Pump	<b>Date of Release:</b>	12/27/23
<b>Was Immediate Notice Given?</b>	No	<b>If, Yes, to Whom?</b>	NOR Submission to NMOCD Portal
<b>Was a Watercourse Reached?</b>	No	<b>If Yes, Volume Impacting Watercourse:</b>	N/A
<b>Surface Owner:</b>	State	<b>Mineral Owner:</b>	State
Corrosion of a valve on the transfer pump discharge line caused a produced water release into lined containment and onto location pad.			

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

## REGULATORY FRAMEWORK

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

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

Depth to groundwater information is provided in Appendix A.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region (middle to lower Pleistocene)—Includes scattered lacustrine, playa, and alluvial deposits of the Tahoka, Double Tanks, Tule, Blackwater Draw, and Gatuña Formations, the latter of which may be Pliocene at base; outcrops, however, are basically of Quaternary deposits (QOA). According to the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Largo-Stony Land Complex, with 0 to 25 percent slopes. The drainage courses in this area are well-drained. There is no high potential for karst geology around the Halberd (Figure #3).

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

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

### INITIAL SITE ASSESSMENT

On January 29th, 2024, 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 booster and ran down to the nearest low spot south of the containment. 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:

1-29-24 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 1/29/24		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	13.5	ND	13.5	6400
	3'	ND	ND	ND	ND	ND	ND	176
S-2	0-6"	ND	ND	ND	ND	ND	ND	16200
	3'	ND	ND	ND	ND	ND	ND	640
S-3	0-6"	ND	ND	ND	ND	ND	ND	8400
	2'	ND	ND	ND	ND	ND	ND	336
S-4	0-6"	ND	ND	ND	11.3	ND	11.3	18000
	5'	ND	ND	ND	ND	ND	ND	160
S-5	0-6"	ND	ND	ND	ND	ND	ND	2840
S-6	0-6"	ND	ND	ND	ND	ND	ND	3120
	2'	ND	ND	ND	ND	ND	ND	80
Z 2.1	SURFACE	ND	ND	ND	ND	ND	ND	272
Z 2.2	SURFACE	ND	ND	ND	ND	ND	ND	112

(ND) - Analyte Not Detected

A Site Map & Confirmation Sample Map are provided in Figures #1 and #5. Laboratory Results are provided 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 utilizing a hydrovac to expose the underground lines. Once the buried lines were exposed, we proceeded with mechanical excavations as follows:

- In the areas of S-1 and S-2, excavation extended to 3' BGS. An approximate total of 156 C/Y were removed.
- In the areas of S-3 and S-6, excavation extended to 2' BGS. An app. total of 57 C/Y were removed.
- In the areas of S-4 and S-5, excavation extended to 5' BGS. An app. total of 206 C/Y were removed

An email notification was sent to the NMOCD prior to obtaining confirmation samples. The results of this sampling event are in the following data table.

3-26-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 3-26-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 100 mg/kg			Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
ESW - 1 3'	ND	ND	ND	ND	ND	0	32
ESW - 2 2'	ND	ND	ND	ND	ND	0	384
ESW - 3 5'	ND	ND	ND	ND	ND	0	560
ESW - 4 2'	ND	ND	ND	ND	ND	0	256
NSW - 1 3'	ND	ND	ND	ND	ND	0	528
NSW - 2 5'	ND	ND	ND	ND	ND	0	64
S - 1 3'	ND	ND	ND	ND	ND	0	160
S - 10 5'	ND	ND	ND	ND	ND	0	80
S - 11 5'	ND	ND	ND	ND	ND	0	32
S - 12 5'	ND	ND	ND	ND	ND	0	160
S - 13 5'	ND	ND	ND	ND	ND	0	208
S - 14 5'	ND	ND	ND	ND	ND	0	96
S - 15 2'	ND	ND	ND	ND	ND	0	224
S - 16 2'	ND	ND	ND	ND	ND	0	624
S - 2 3'	ND	ND	ND	ND	ND	0	288
S - 3 3'	ND	ND	ND	ND	ND	0	32
S - 4 3'	ND	ND	ND	ND	ND	0	48
S - 5 3'	ND	ND	ND	ND	ND	0	16
S - 6 3'	ND	ND	ND	ND	ND	0	32
S - 7 3'	ND	ND	ND	ND	ND	0	3440
S - 8 2'	ND	ND	ND	ND	ND	0	112
S - 9 2'	ND	ND	ND	ND	ND	0	160
SSW - 1 3'	ND	ND	ND	ND	ND	0	80
SSW - 2 5'	ND	ND	ND	ND	ND	0	288
SSW - 3 2'	ND	ND	ND	ND	ND	0	544
WSW - 1 3'	ND	ND	ND	ND	ND	0	96
WSW - 2 2'	ND	ND	ND	ND	ND	0	1960
WSW - 3 5'	ND	ND	ND	ND	ND	0	1920
WSW - 4 2'	ND	ND	ND	ND	ND	0	32

(ND) Analyte Not Detected

Upon receiving these sample results, an additional 6 inches was removed from the bottom of S-7 3' and from S-16 2'. An additional 6 inches was removed from the sidewalls of WSW-2 2' and WSW-3 5'. This amounted to an additional combined 6 C/Y that was removed. The results of this event are in the following data table.

## 4-2-24 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Date 4-2-24	Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg	Combined Closure Criteria ≤ 100 mg/kg			Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S - 16 2'	ND	ND	ND	ND	ND	0	176
S - 7 3'	ND	ND	ND	ND	ND	0	384
WSW - 2 2'	ND	ND	ND	ND	ND	0	416
WSW - 3 5'	ND	ND	ND	ND	ND	0	80

(ND) Analyte Not Detected

These laboratory analytical results confirmed that the 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. The excavated areas were backfilled with "like" material obtained from a localized sand pit. The affected area was then contoured and machine-compacted to match the surrounding grade.

### CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2336154693, 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](mailto: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 – Notification & Photographic Documentation
- Appendix D – Laboratory Reports



Figures:




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



# Spur Energy Partners

Halberd Booster Pump  
Eddy County, NM  
Site Map

## Legend

-  Booster Pump
-  Samples
-  Spill Area 3290 S/F

Halberd Booster Pump 32.81670, -104.15340

HZ-1

S-1

S-2

S-3

S-4

S-5

S-6

HZ-2



100 ft

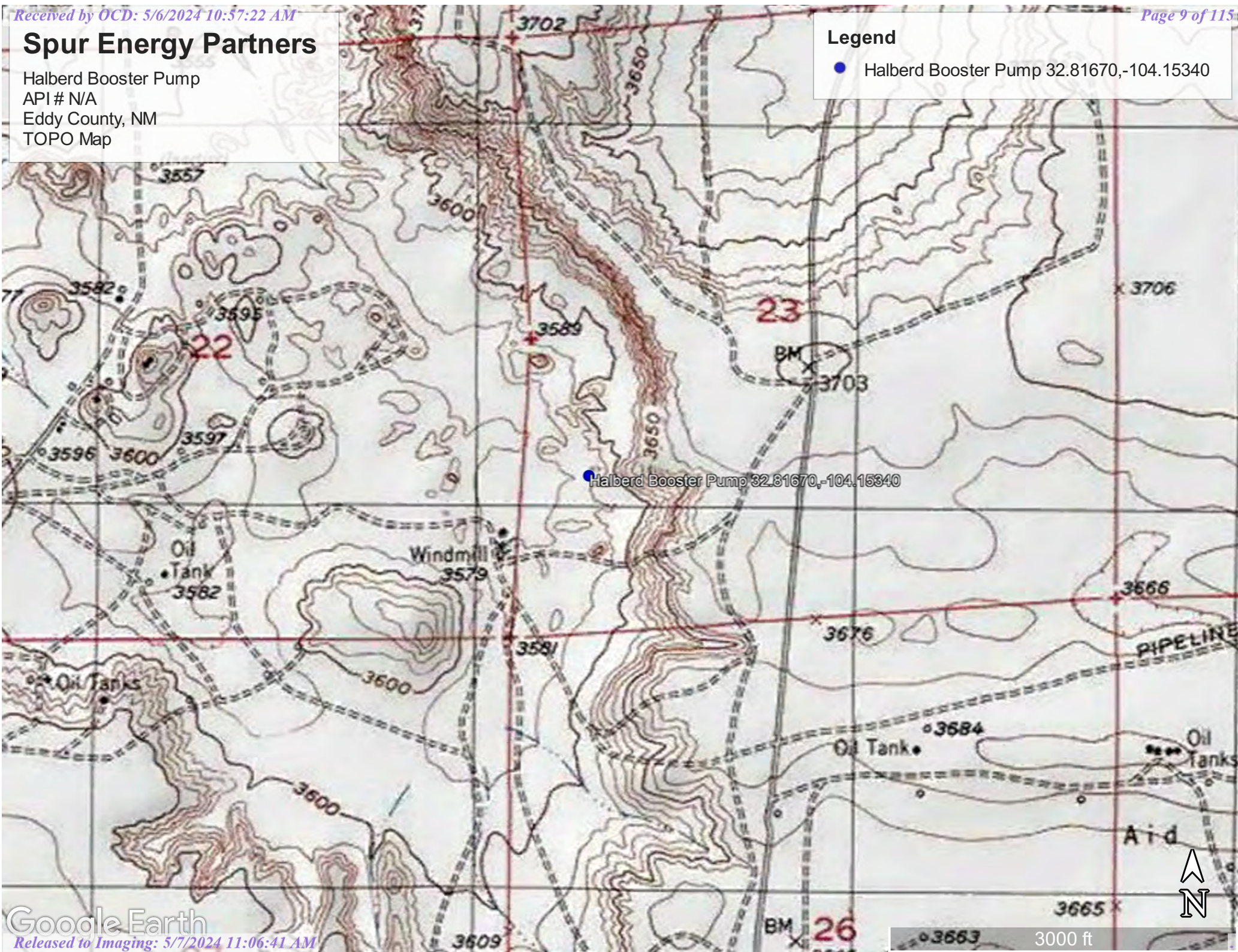


# Spur Energy Partners

Halberd Booster Pump  
API # N/A  
Eddy County, NM  
TOPO Map

## Legend

- Halberd Booster Pump 32.81670,-104.15340










# Spur Energy Partners

Halberd Booster Pump  
API # N/A  
Eddy County, NM  
Karst Map

## Legend

-  32.8167,-104.1534
-  Halberd Booster Pump
-  High
-  Low
-  Medium

Halberd Booster Pump

32.8167,-104.1534



2 mi



Google Earth

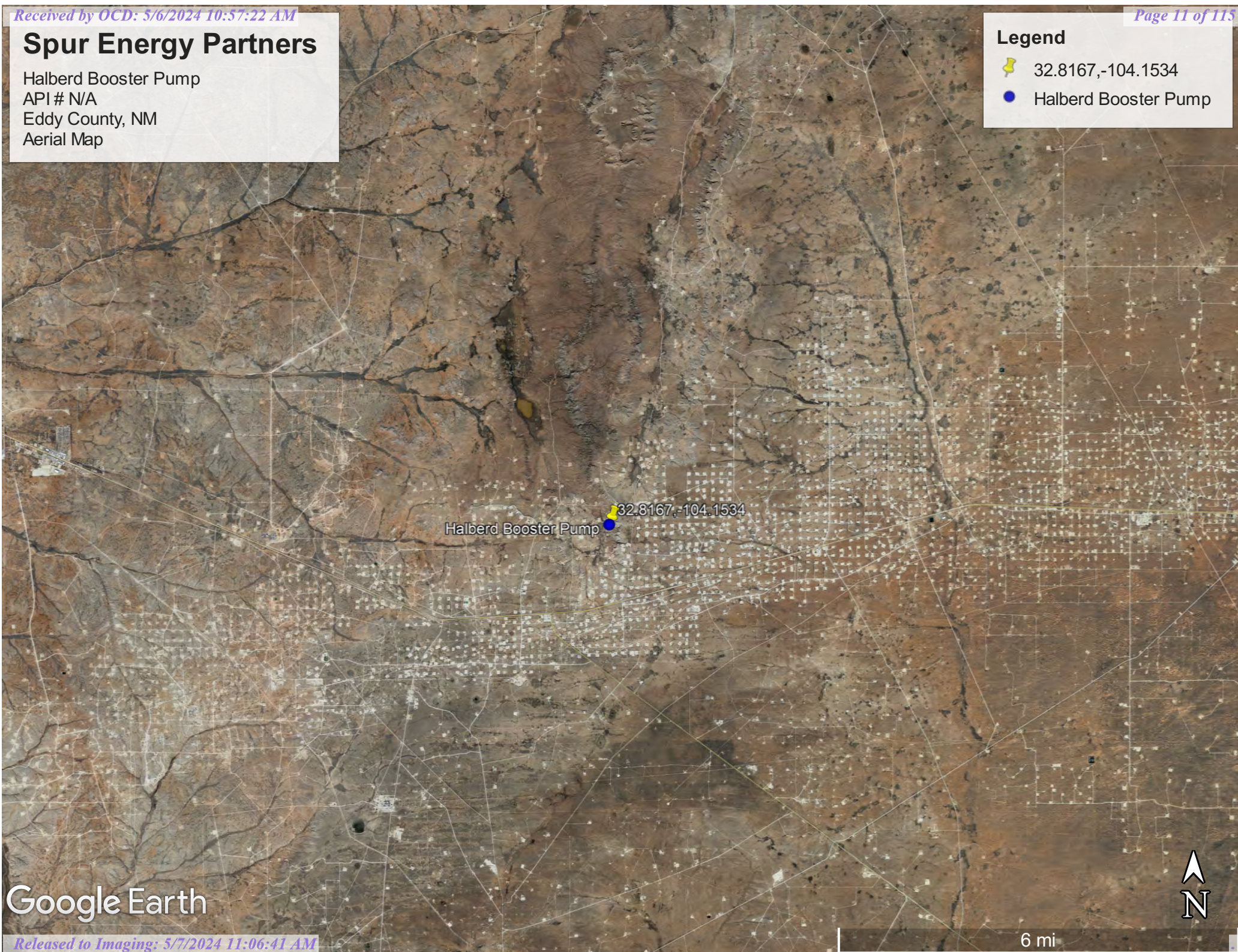


# Spur Energy Partners

Halberd Booster Pump  
API # N/A  
Eddy County, NM  
Aerial Map

## Legend

-  32.8167,-104.1534
-  Halberd Booster Pump



6 mi

Google Earth

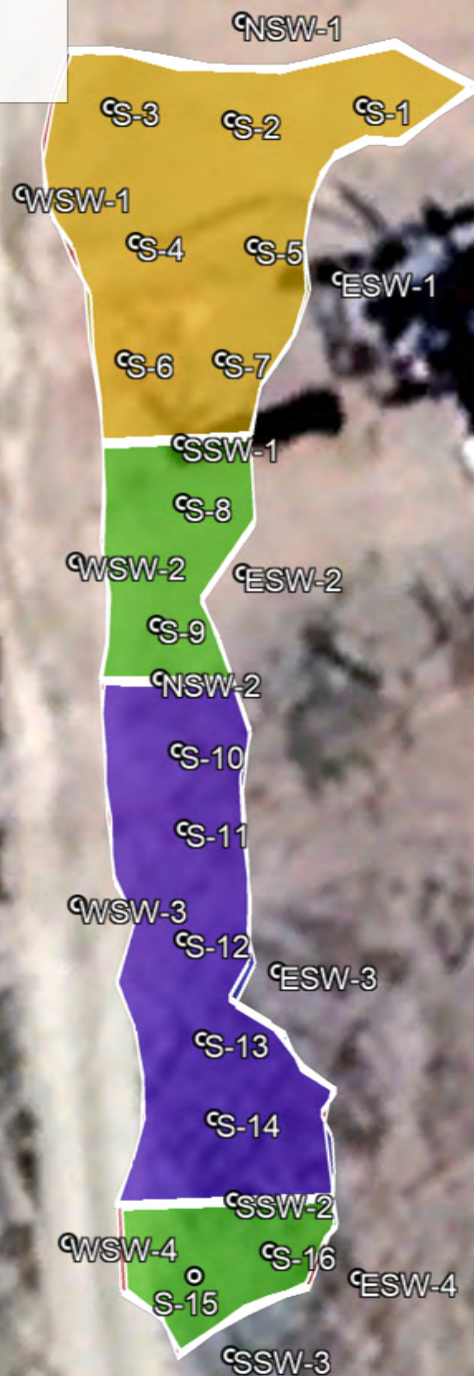


# Spur Energy Partners

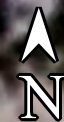
Halberd Booster Pump  
API # N/A  
Eddy County, NM  
Confirmation Sample Map

## Legend

- 2' Excavation 775 S/F- 57 C/Y
- 3' Excavation 1400 S/F- 156 C/Y
- 5' Excavation 1115 S/F- 206 C/Y
- Samples
- Halberd Booster Pump 32.81670,-104.15340
- Spill Area 3290 S/F



Halberd Booster Pump 32.81670,-104.15340





Appendix A  
Referenced Water Data:

New Mexico State of Engineers Office




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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth	WellDepth	Water Column	
		Sub-basin		64	16	4										
RA 12307 POD1		RA	ED	4	2	2	14	17S	28E	580495	3633981		2970	140	58	82

Average Depth to Water: **58 feet**

Minimum Depth: **58 feet**

Maximum Depth: **58 feet**

Record Count: 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 579251.172

**Northing (Y):** 3631283.197

**Radius:** 3200

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.

1/9/23 10:47 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER





Appendix B  
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Largo-Stony land complex, 0 to 25 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### LN—Largo-Stony land complex, 0 to 25 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w50

*Elevation:* 2,000 to 5,700 feet

*Mean annual precipitation:* 6 to 14 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Largo and similar soils:* 41 percent

*Stony land:* 40 percent

*Minor components:* 19 percent

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

#### Description of Largo

##### Setting

*Landform:* Plains, alluvial fans

*Landform position (three-dimensional):* Talf, rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Calcareous alluvium

##### Typical profile

*H1 - 0 to 4 inches:* loam

*H2 - 4 to 47 inches:* silt loam

*H3 - 47 to 65 inches:* loam

##### Properties and qualities

*Slope:* 1 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

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

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

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

*Available water supply, 0 to 60 inches:* High (about 10.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* B

Map Unit Description: Largo-Stony land complex, 0 to 25 percent slopes---Eddy Area, New Mexico

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*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

#### **Minor Components**

##### **Simona**

*Percent of map unit:* 7 percent  
*Ecological site:* R070BD002NM - Shallow Sandy  
*Hydric soil rating:* No

##### **Pajarito**

*Percent of map unit:* 6 percent  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

##### **Largo**

*Percent of map unit:* 6 percent  
*Ecological site:* R070BC017NM - Bottomland  
*Hydric soil rating:* No

## **Data Source Information**

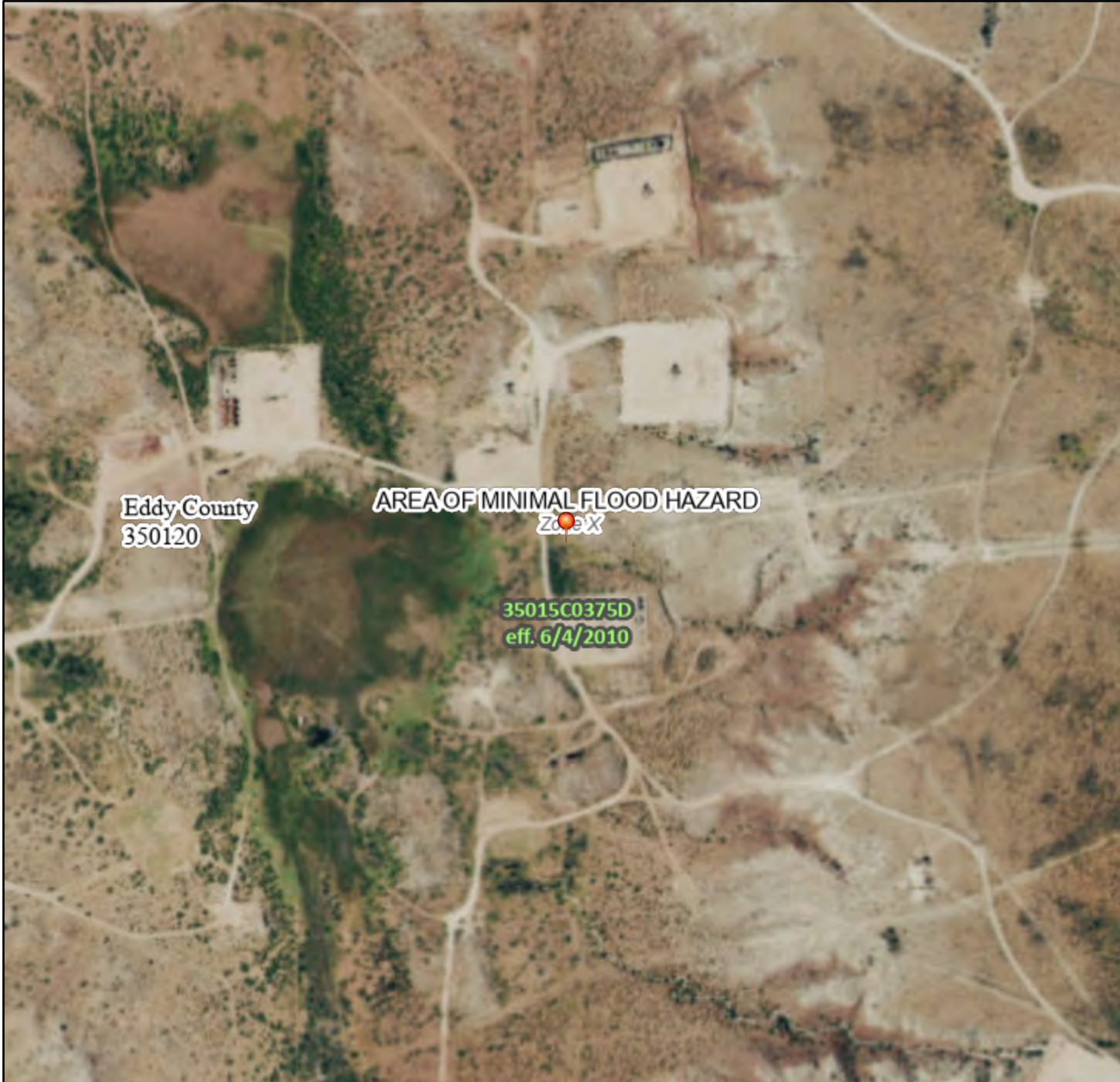
Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 18, Sep 8, 2022



# National Flood Hazard Layer FIRMette



104°9'31"W 32°49'15"N



### Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/9/2023 at 12:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Appendix C:

Notification

Photographic Documentation



Angel Pena <angel@paragonenvironmental.net>

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**The Oil Conservation Division (OCD) has accepted the application, Application ID: 325874**

---

<OCDOnline@state.nm.us>

Fri, Mar 22 at 10:27 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#) nAPP2336154693.

The sampling event is expected to take place:

**When:** 03/26/2024 @ 10:30

**Where:** L-23-17S-28E 0 FNL 0 FEL (32.8168,-104.15357)

**Additional Information:** Jeremy Maner  
575-602-4231

**Additional Instructions:** 32.81680,-104.15357

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





## Photographic Documentation

Before



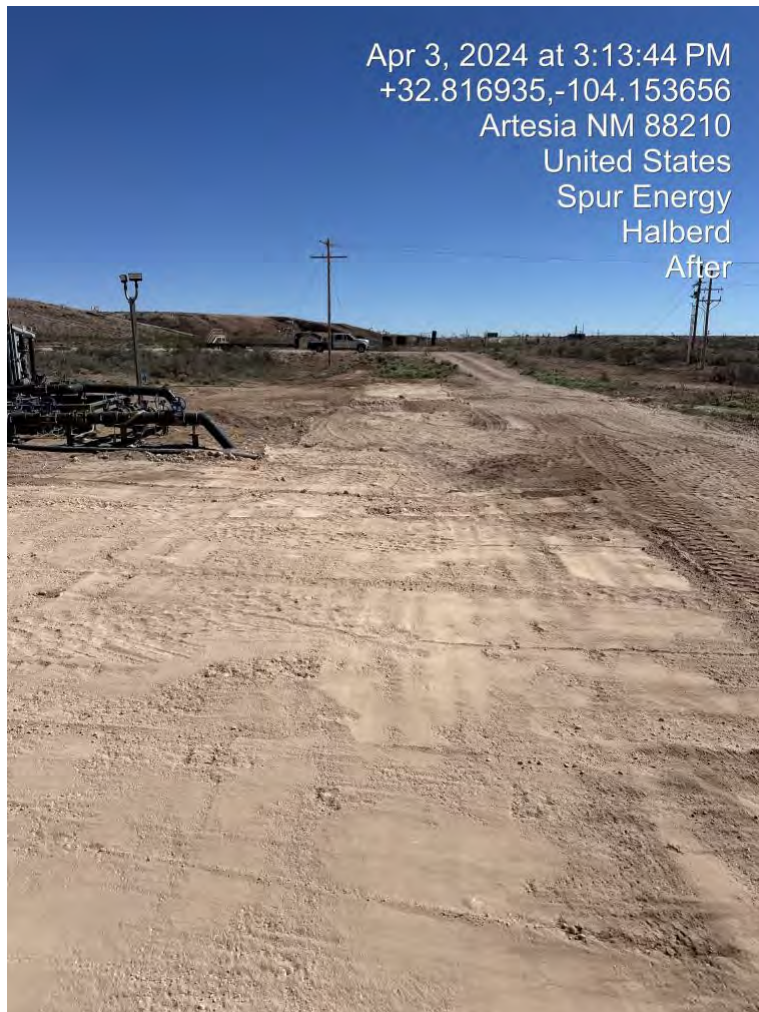
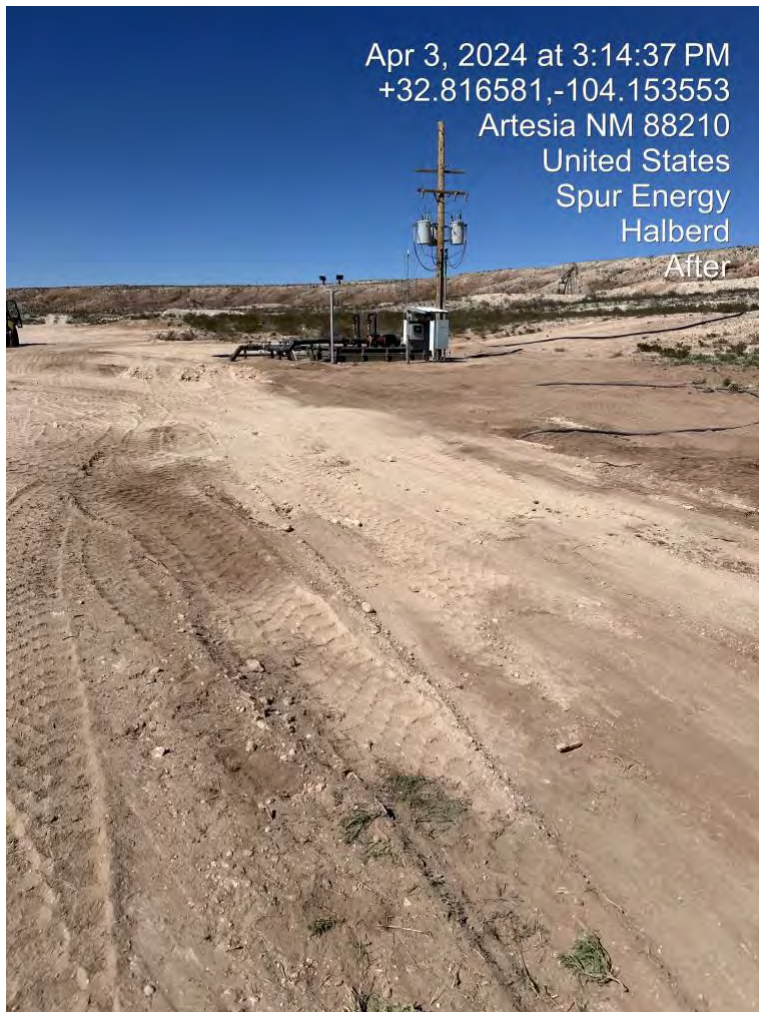


During





After





Appendix D:  
Laboratory Results



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

February 02, 2024

TRISTAN JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 16:55.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/02/2024  
 Project Name: HALBERD BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY, NM

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 0-6" (H240405-01)**

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	01/31/2024	ND	2.18	109	2.00	0.228	
Toluene*	<0.050	0.050	01/31/2024	ND	2.35	117	2.00	2.18	
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.45	123	2.00	1.27	
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.44	124	6.00	0.921	
Total BTEX	<0.300	0.300	01/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	6400	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	13.5	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 1 3' (H240405-02)**

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	01/31/2024	ND	2.18	109	2.00	0.228		
Toluene*	<0.050	0.050	01/31/2024	ND	2.35	117	2.00	2.18		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.45	123	2.00	1.27		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.44	124	6.00	0.921		
Total BTEx	<0.300	0.300	01/31/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 2 0-6" (H240405-03)**

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	01/30/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	16200	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 2 3' (H240405-04)**

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	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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





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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/02/2024  
 Project Name: HALBERD BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY, NM

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 0-6" (H240405-05)**

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	01/30/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	8400	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 3 2' (H240405-06)**

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	01/30/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68		
Total BTEx	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 4 0-6" (H240405-07)**

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	01/30/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	18000	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	11.3	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 4 5' (H240405-08)**

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	01/30/2024	ND	2.32	116	2.00	1.56	
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	160	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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





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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/02/2024  
 Project Name: HALBERD BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY, NM

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 5 0-6" (H240405-09)**

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	01/30/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68		
Total BTEX	<0.300	0.300	01/30/2024	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	2840	16.0	01/30/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 5 6' (H240405-10)**

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	01/30/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68		
Total BTEx	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12200	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 6 0-6" (H240405-11)**

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	01/30/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	01/30/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.42	124	6.00	8.68		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	02/02/2024	Sampling Type:	Soil
Project Name:	HALBERD BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY, NM		

**Sample ID: S - 6 2' (H240405-12)**

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	02/01/2024	ND	2.32	116	2.00	1.56		
Toluene*	<0.050	0.050	02/01/2024	ND	2.38	119	2.00	3.93		
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.49	125	2.00	8.15		
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.42	124	6.00	8.68		
Total BTEX	<0.300	0.300	02/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	80.0	16.0	01/30/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	194	97.2	200	4.58	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	212	106	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/02/2024  
 Project Name: HALBERD BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY, NM

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: Z 2.1 (H240405-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2024	ND	2.01	100	2.00	11.3		
Toluene*	<0.050	0.050	01/30/2024	ND	2.06	103	2.00	13.4		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.17	109	2.00	13.7		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.59	110	6.00	13.9		
Total BTX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2024	ND	209	105	200	2.25	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	203	102	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 01/29/2024  
 Reported: 02/02/2024  
 Project Name: HALBERD BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY, NM

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: Z 2.2 (H240405-14)**

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	01/30/2024	ND	2.01	100	2.00	11.3		
Toluene*	<0.050	0.050	01/30/2024	ND	2.06	103	2.00	13.4		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.17	109	2.00	13.7		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.59	110	6.00	13.9		
Total BTEX	<0.300	0.300	01/30/2024	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	112	16.0	01/30/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2024	ND	209	105	200	2.25	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	203	102	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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





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

Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> Paragon Environmental		<b>P.O. #:</b>	<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																
<b>Project Manager:</b> Cason Spurlock																																					
<b>Address:</b> 5002 Carriage Rd																																					
<b>City:</b> Hobbs		<b>State:</b> NM	<b>zip:</b> 88242	<b>Company:</b> Spur																																	
<b>Phone #:</b> 575-631-6977		<b>Fax #:</b>		<b>Attn:</b> Bradley Walker																																	
<b>Project #:</b>		<b>Project Owner:</b> Spur		<b>City:</b>	<b>State:</b>	<b>Zip:</b>																															
<b>Project Location:</b> Halberd Booster Pump		<b>Sample Name:</b> Sewerage Manure		<b>Phone #:</b>	<b>Fax #:</b>																																
<b>FOR LAB USE ONLY</b>																																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	TPH Ext.	BTEX	Chlorides																					
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :																											
H240405	1 S-1 O.L.	C											01/25																								
	2 S-1 Z																																				
	3 S-2 O.L.																																				
	4 S-2 Z																																				
	5 S-3 O.L.																																				
	6 S-3 Z																																				
	7 S-4 O.L.																																				
	8 S-4 Z																																				
	9 S-5 O.L.																																				
	10 S-5 Z																																				

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<b>Relinquished By:</b> K.E.M.C.		<b>Date:</b> 01/24	<b>Received By:</b> [Signature]
<b>Time:</b> 1:55		<b>REMARKS:</b>	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other: A.S.C.		<b>#140</b>	<b>CHECKED BY:</b> [Initials] <b>Phone Result:</b> Yes No Add'l Phone #: _____ <b>Fax Result:</b> Yes No Add'l Fax #: _____

Email results to Chris Jones





**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Paragon Environmental				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																			
Project Manager: Cason Spurlock				P.O. #:																																							
Address: 5002 Carriage Rd				Company: <i>SPU</i>																																							
City: Hobbs				Attn: <i>Braden Walker</i>																																							
Phone #: 575-631-6977				Address:																																							
State: NM Zip: 88242				City:																																							
Fax #:				State:																																							
Project #: <i>SPU</i>				Zip:																																							
Project Name: <i>Holbrook Booster Pump</i>				Phone #:																																							
Project Location: <i>Edley</i>				Fax #:																																							
Sampler Name: <i>Sevens, Marcus</i>																																											
FOR LAB USE ONLY																																											
Lab I.D. <i>H240405</i>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
11 <i>54 0.5</i>				<i>G</i>		<i>1</i>																				<i>01/29</i>		<i>X</i>		<i>TPH Ext.</i>													
12 <i>54 2</i>																										<i>X</i>		<i>BTEX</i>															
																										<i>X</i>		<i>Chlorides</i>															



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

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February 21, 2024

TRISTAN JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 16:55.

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

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 0-6"	H240405-01	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 1 3'	H240405-02	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 2 0-6"	H240405-03	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 2 3'	H240405-04	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 3 0-6"	H240405-05	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 3 2'	H240405-06	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 4 0-6"	H240405-07	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 4 5'	H240405-08	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 5 0-6"	H240405-09	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 6 0-6"	H240405-11	Soil	29-Jan-24 00:00	29-Jan-24 16:55
S - 6 2'	H240405-12	Soil	29-Jan-24 00:00	29-Jan-24 16:55
Z 2.1	H240405-13	Soil	29-Jan-24 00:00	29-Jan-24 16:55
Z 2.2	H240405-14	Soil	29-Jan-24 00:00	29-Jan-24 16:55

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 1 0-6"**  
**H240405-01 (Soil)**

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

<b>Chloride</b>	<b>6400</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013013	JH	31-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 4013013 JH 31-Jan-24 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>13.5</b>		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane 86.5 % 48.2-134 4013005 ms 30-Jan-24 8015B

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148 4013005 ms 30-Jan-24 8015B

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 1 3'****H240405-02 (Soil)**

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

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4013013	JH	31-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4013013	JH	31-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	112 %	71.5-134	4013013	JH	31-Jan-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B

Surrogate: 1-Chlorooctane	68.3 %	48.2-134	4013005	ms	30-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	68.0 %	49.1-148	4013005	ms	30-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 2 0-6"****H240405-03 (Soil)**

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

<b>Chloride</b>	<b>16200</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.4 %	71.5-134	4013014	JH	30-Jan-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B

Surrogate: 1-Chlorooctane	85.8 %	48.2-134	4013005	ms	30-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	86.6 %	49.1-148	4013005	ms	30-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 2 3'****H240405-04 (Soil)**

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

<b>Chloride</b>	<b>640</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	4013014	JH	30-Jan-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B

Surrogate: 1-Chlorooctane	86.1 %	48.2-134	4013005	ms	30-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	85.3 %	49.1-148	4013005	ms	30-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 3 0-6"****H240405-05 (Soil)**

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

<b>Chloride</b>	<b>8400</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %	71.5-134	4013014	JH	30-Jan-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B

Surrogate: 1-Chlorooctane	95.5 %	48.2-134	4013005	ms	30-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	95.1 %	49.1-148	4013005	ms	30-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 3 2'****H240405-06 (Soil)**

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

<b>Chloride</b>	<b>336</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B
Toluene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B
Total BTEX	<0.300	0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B

Surrogate: 4-Bromofluorobenzene (PID)	98.5 %	71.5-134	4013014	JH	30-Jan-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B

Surrogate: 1-Chlorooctane	74.0 %	48.2-134	4013005	ms	30-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	73.7 %	49.1-148	4013005	ms	30-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 4 0-6"****H240405-07 (Soil)**

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

<b>Chloride</b>	<b>18000</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %		71.5-134	4013014	JH	30-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<b>11.3</b>		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane			83.6 %		48.2-134	4013005	ms	30-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			83.7 %		49.1-148	4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 4 5'****H240405-08 (Soil)**

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

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		71.5-134	4013014	JH	30-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane			95.4 %		48.2-134	4013005	ms	30-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			96.5 %		49.1-148	4013005	ms	30-Jan-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 5 0-6"**  
**H240405-09 (Soil)**

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

<b>Chloride</b>	<b>2840</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		111 %		71.5-134	4013014	JH	30-Jan-24	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
Surrogate: 1-Chlorooctane		90.8 %		48.2-134	4013005	ms	30-Jan-24	8015B	
Surrogate: 1-Chlorooctadecane		90.4 %		49.1-148	4013005	ms	30-Jan-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 6 0-6"****H240405-11 (Soil)**

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

<b>Chloride</b>	<b>3120</b>		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4013014	JH	30-Jan-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4013014	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	96.3 %	71.5-134	4013014	JH	30-Jan-24	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B

Surrogate: 1-Chlorooctane	93.9 %	48.2-134	4013005	ms	30-Jan-24	8015B
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Surrogate: 1-Chlorooctadecane	94.3 %	49.1-148	4013005	ms	30-Jan-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**S - 6 2'**  
**H240405-12 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	4013026	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013014	JH	01-Feb-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013014	JH	01-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.6 %		71.5-134	4013014	JH	01-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013005	ms	30-Jan-24	8015B	

Surrogate: 1-Chlorooctane			92.9 %		48.2-134	4013005	ms	30-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			93.1 %		49.1-148	4013005	ms	30-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**Z 2.1****H240405-13 (Soil)**

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

Chloride	272		16.0	mg/kg	4	4013028	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013009	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		71.5-134	4013009	JH	30-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	

Surrogate: 1-Chlorooctane			84.3 %		48.2-134	4013019	MS	31-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			73.0 %		49.1-148	4013019	MS	31-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**Z 2.2****H240405-14 (Soil)**

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

Chloride	112		16.0	mg/kg	4	4013028	CT	30-Jan-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4013009	JH	30-Jan-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4013009	JH	30-Jan-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4013009	JH	30-Jan-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4013019	MS	31-Jan-24	8015B	

Surrogate: 1-Chlorooctane			76.3 %		48.2-134	4013019	MS	31-Jan-24	8015B	
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Surrogate: 1-Chlorooctadecane			66.1 %		49.1-148	4013019	MS	31-Jan-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4013026 - 1:4 DI Water****Blank (4013026-BLK1)**

Prepared &amp; Analyzed: 30-Jan-24

Chloride	ND	16.0	mg/kg						
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**LCS (4013026-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (4013026-BSD1)**

Prepared &amp; Analyzed: 30-Jan-24

Chloride	448	16.0	mg/kg	400	112	80-120	7.41	20	
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**Batch 4013028 - 1:4 DI Water****Blank (4013028-BLK1)**

Prepared &amp; Analyzed: 30-Jan-24

Chloride	ND	16.0	mg/kg						
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**LCS (4013028-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

Chloride	432	16.0	mg/kg	400	108	80-120			
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**LCS Dup (4013028-BSD1)**

Prepared &amp; Analyzed: 30-Jan-24

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4013009 - Volatiles****Blank (4013009-BLK1)**

Prepared &amp; Analyzed: 30-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0545		mg/kg	0.0500		109	71.5-134			

**LCS (4013009-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.06	0.050	mg/kg	2.00		103	86-128			
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89-129			
o-Xylene	2.22	0.050	mg/kg	2.00		111	86.1-125			
Total Xylenes	6.59	0.150	mg/kg	6.00		110	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	71.5-134			

**LCS Dup (4013009-BSD1)**

Prepared &amp; Analyzed: 30-Jan-24

Benzene	2.25	0.050	mg/kg	2.00		112	82.8-130	11.3	15.8	
Toluene	2.36	0.050	mg/kg	2.00		118	86-128	13.4	15.9	
Ethylbenzene	2.49	0.050	mg/kg	2.00		125	85.9-128	13.7	16	
m,p-Xylene	5.02	0.100	mg/kg	4.00		126	89-129	14.0	16.2	
o-Xylene	2.55	0.050	mg/kg	2.00		127	86.1-125	13.5	16.7	BS-3
Total Xylenes	7.57	0.150	mg/kg	6.00		126	88.2-128	13.9	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0567		mg/kg	0.0500		113	71.5-134			

**Batch 4013013 - Volatiles****Blank (4013013-BLK1)**

Prepared: 30-Jan-24 Analyzed: 31-Jan-24

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

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4013013 - Volatiles****Blank (4013013-BLK1)**

Prepared: 30-Jan-24 Analyzed: 31-Jan-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.5	71.5-134			

**LCS (4013013-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130			
Toluene	2.35	0.050	mg/kg	2.00		117	86-128			
Ethylbenzene	2.45	0.050	mg/kg	2.00		123	85.9-128			
m,p-Xylene	4.94	0.100	mg/kg	4.00		124	89-129			
o-Xylene	2.50	0.050	mg/kg	2.00		125	86.1-125			
Total Xylenes	7.44	0.150	mg/kg	6.00		124	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0569		mg/kg	0.0500		114	71.5-134			

**LCS Dup (4013013-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	0.228	15.8	
Toluene	2.30	0.050	mg/kg	2.00		115	86-128	2.18	15.9	
Ethylbenzene	2.42	0.050	mg/kg	2.00		121	85.9-128	1.27	16	
m,p-Xylene	4.90	0.100	mg/kg	4.00		123	89-129	0.795	16.2	
o-Xylene	2.47	0.050	mg/kg	2.00		123	86.1-125	1.17	16.7	
Total Xylenes	7.37	0.150	mg/kg	6.00		123	88.2-128	0.921	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0567		mg/kg	0.0500		113	71.5-134			

**Batch 4013014 - Volatiles****Blank (4013014-BLK1)**

Prepared &amp; Analyzed: 30-Jan-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4013014 - Volatiles****LCS (4013014-BS1)**

Prepared: 30-Jan-24 Analyzed: 31-Jan-24

Benzene	2.32	0.050	mg/kg	2.00		116	82.8-130		
Toluene	2.38	0.050	mg/kg	2.00		119	86-128		
Ethylbenzene	2.49	0.050	mg/kg	2.00		125	85.9-128		
m,p-Xylene	4.96	0.100	mg/kg	4.00		124	89-129		
o-Xylene	2.45	0.050	mg/kg	2.00		123	86.1-125		
Total Xylenes	7.42	0.150	mg/kg	6.00		124	88.2-128		
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	71.5-134		

**LCS Dup (4013014-BSD1)**

Prepared &amp; Analyzed: 30-Jan-24

Benzene	2.36	0.050	mg/kg	2.00		118	82.8-130	1.56	15.8
Toluene	2.29	0.050	mg/kg	2.00		114	86-128	3.93	15.9
Ethylbenzene	2.30	0.050	mg/kg	2.00		115	85.9-128	8.15	16
m,p-Xylene	4.53	0.100	mg/kg	4.00		113	89-129	9.15	16.2
o-Xylene	2.27	0.050	mg/kg	2.00		113	86.1-125	7.74	16.7
Total Xylenes	6.80	0.150	mg/kg	6.00		113	88.2-128	8.68	16.3
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.8	71.5-134		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4013005 - General Prep - Organics****Blank (4013005-BLK1)**

Prepared &amp; Analyzed: 30-Jan-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.7	48.2-134			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.7	49.1-148			

**LCS (4013005-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

GRO C6-C10	194	10.0	mg/kg	200		97.2	66.4-123			
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.6-123			
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.1	48.2-134			
Surrogate: 1-Chlorooctadecane	43.4		mg/kg	50.0		86.8	49.1-148			

**LCS Dup (4013005-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123	4.58	17.7	
DRO >C10-C28	215	10.0	mg/kg	200		108	66.5-118	1.57	21	
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	3.02	18.5	
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.1	48.2-134			
Surrogate: 1-Chlorooctadecane	46.0		mg/kg	50.0		92.0	49.1-148			

**Batch 4013019 - General Prep - Organics****Blank (4013019-BLK1)**

Prepared &amp; Analyzed: 30-Jan-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.9	48.2-134			
Surrogate: 1-Chlorooctadecane	38.6		mg/kg	50.0		77.2	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: HALBERD BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Manager: TRISTAN JONES  
Fax To:

Reported:  
21-Feb-24 16:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4013019 - General Prep - Organics****LCS (4013019-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

GRO C6-C10	209	10.0	mg/kg	200		105	66.4-123			
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118			
Total TPH C6-C28	412	10.0	mg/kg	400		103	77.6-123			
Surrogate: 1-Chlorooctane	42.3		mg/kg	50.0		84.7	48.2-134			
Surrogate: 1-Chlorooctadecane	40.8		mg/kg	50.0		81.6	49.1-148			

**LCS Dup (4013019-BS1)**

Prepared &amp; Analyzed: 30-Jan-24

GRO C6-C10	214	10.0	mg/kg	200		107	66.4-123	2.25	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.1	66.5-118	3.45	21	
Total TPH C6-C28	410	10.0	mg/kg	400		102	77.6-123	0.514	18.5	
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.1	48.2-134			
Surrogate: 1-Chlorooctadecane	41.8		mg/kg	50.0		83.5	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cason Spurlock		City: Hobbs		State: NM zip: 88242		Company: Spur	
Address: 5002 Carriage Rd		Phone #: 575-631-6977		Fax #: 575-631-6977		Attn: Brocky Miller	
Project #:		Project Owner: Spur		City:		State:	
Project Location: Hobbs Booster Pump		State: NM		Zip:		Phone #:	
Sampler Name: Jeremy Miller		Fax #:		DATE		TIME	
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		DATE	
Lab I.D.		Sample I.D.		GROUNDWATER		WASTEWATER	
4240405		1		S.1 0.6		S.1 0.6	
2		S.1 3		S.1 3		S.1 3	
3		S.2 0.6		S.2 0.6		S.2 0.6	
4		S.2 3		S.2 3		S.2 3	
5		S.3 0.6		S.3 0.6		S.3 0.6	
6		S.3 2		S.3 2		S.3 2	
7		S.4 0.6		S.4 0.6		S.4 0.6	
8		S.4 5		S.4 5		S.4 5	
9		S.5 0.6		S.5 0.6		S.5 0.6	
10		S.5 6		S.5 6		S.5 6	
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Relinquished By: K. Miller		Received By: [Signature]		Date: 01/24		Time: 11:35	
Delivered By: (Circle One) H/140		Sample Condition		Cool Intact		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 4.5c		Cool Intact		Cool Intact		CHECKED BY: (Initials)	
† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326		Sample Condition		Cool Intact		CHECKED BY: (Initials)	
REMARKS: Email results to Chris Jones		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: Add'l Fax #:	





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name: Halvard Rooster Farms

Project Location: Eddy

Sampler Name: Jeremy Jensen

State: NM

Zip: 88242

Attn: Bradley Walker

Address:

City:

State:

Zip:

Phone #:

Fax #:

P.O. #:

Company: Spur

Attn: Bradley Walker

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

11 5.4 0.6

12 5.4 2

13 22.1

14 22.2

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

TPH Ext.

BTEX

Chlorides

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Inquired By: J. Jensen

Date: 01/29

Received By: [Signature]

Time: 11:55

Received By: [Signature]

Time: 11:55

Sample Condition

Checked By: [Signature]

Time: 4:55

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

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

\* Cust. said to add the two extra sample to end of CCL.

9:00 11/30/24



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

April 02, 2024

CASON SPURLOCK

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: HALBERD 27 BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 03/26/24 13:27.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 3' (H241568-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTX	<0.300	0.300	03/27/2024	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	160	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

**Sample ID: S - 2 3' (H241568-02)**

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	03/27/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 3' (H241568-03)**

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	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEx	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 3' (H241568-04)**

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	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEx	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 3' (H241568-05)**

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	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTEx	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 6 3' (H241568-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 3' (H241568-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/26/2024	Sampling Date:	03/26/2024
Reported:	04/02/2024	Sampling Type:	Soil
Project Name:	HALBERD 27 BOOSTER PUMP	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR - EDDY		

**Sample ID: S - 8 2' (H241568-08)**

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	03/27/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	230	115	200	2.93	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	223	112	200	2.70	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 9 2' (H241568-09)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/27/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.21	120	6.00	1.77	
Total BTX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 10 5' (H241568-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77		
Total BTX	<0.300	0.300	03/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 11 5' (H241568-11)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77		
Total BTX	<0.300	0.300	03/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 12 5' (H241568-12)**

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	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEx	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 13 5' (H241568-13)**

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	03/28/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77		
Total BTEX	<0.300	0.300	03/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 14 5' (H241568-14)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77		
Total BTX	<0.300	0.300	03/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 15 2' (H241568-15)**

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	03/28/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77		
Total BTEx	<0.300	0.300	03/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 16 2' (H241568-16)**

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	03/28/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77		
Total BTEx	<0.300	0.300	03/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NSW - 1 3' (H241568-17)**

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	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEx	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NSW - 2 5' (H241568-18)**

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	03/28/2024	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77	
Total BTEx	<0.300	0.300	03/28/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SSW - 1 3' (H241568-19)**

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	03/28/2024	ND	2.16	108	2.00	1.64		
Toluene*	<0.050	0.050	03/28/2024	ND	2.24	112	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.38	119	2.00	1.96		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	7.21	120	6.00	1.77		
Total BTEx	<0.300	0.300	03/28/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SSW - 2 5' (H241568-20)**

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	03/27/2024	ND	1.79	89.5	2.00	3.86	
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SSW - 3 2' (H241568-21)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: ESW - 1 3' (H241568-22)**

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	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: ESW - 2 2' (H241568-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: ESW - 3 5' (H241568-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEx	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/28/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: ESW - 4 2' (H241568-25)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/28/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WSW - 1 3' (H241568-26)**

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	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/28/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	201	100	200	1.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	195	97.5	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WSW - 2 2' (H241568-27)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEX	<0.300	0.300	03/27/2024	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	1960	16.0	03/28/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	201	100	200	1.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	195	97.5	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WSW - 3 5' (H241568-28)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	03/28/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	201	100	200	1.99	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	195	97.5	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 04/02/2024  
 Project Name: HALBERD 27 BOOSTER PUMP  
 Project Number: NOT GIVEN  
 Project Location: SPUR - EDDY

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WSW - 4 2' (H241568-29)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2024	ND	1.79	89.5	2.00	3.86		
Toluene*	<0.050	0.050	03/27/2024	ND	1.93	96.7	2.00	3.22		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	1.92	96.1	2.00	3.36		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	5.83	97.2	6.00	3.50		
Total BTEX	<0.300	0.300	03/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	204	102	200	0.457	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	220	110	200	4.85	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

**Company Name:** Paragon Environmental

**Project Manager:** Cason Spurlock

**Address:** 5002 Carriage Rd

**City:** Hobbs **State:** NM **zip:** 88242

**Phone #:** 575-631-6977 **Fax #:**

**Project #:**

**Project Name:** Halberd 72 Booster Pump

**Project Location:** Eddy

**Project Owner:** Spv

**City:** **State:** **Zip:**

**Phone #:** **Fax #:**

**BILL TO**

**P.O. #:**

**Company:** Spv

**Attn:** Bradley Maloney

**Address:**

**City:** **State:** **Zip:**

**Phone #:** **Fax #:**

**Sample Name:** Sewage Sludge

**FOR LAB USE ONLY**

**Lab I.D.**

**Sample I.D.**

**Matrix:** GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: ACID/BASE, ICE / COOL, OTHER:

**Preserv:** ☒ **Sampling:**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH Ext	RTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE					
1241518	5.1	3	1								03/26				
2	5.2	3	1												
3	5.3	3	1												
4	5.4	3	1												
5	5.5	3	1												
6	5.6	3	1												
7	5.7	3	1												
8	5.8	3	1												
9	5.9	3	1												
10	5.10	3	1												

**Relinquished By:** [Signature] **Date:** 03/26 **Received By:** [Signature] **Date:** 03/27

**Relinquished By:** [Signature] **Date:** **Received By:** [Signature] **Date:**

**Delivered By:** (Circle One) 312 #140

**Sampler - UPS - Bus - Other:**

**Sample Condition:** Cool ☒ Intact ☒ Yes ☐ No ☐ Yes ☐ No

**CHECKED BY:** [Signature]

**REMARKS:**

**Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**

**Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs State: NM zip: 88242

Phone #: 575-631-6977 Fax #:

Project #: Project Owner: Spur

Project Name: Halberd 12 Booster Pump

Project Location: Eddy

Sample Name: Jeffrey M. Moore

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
----------	-------------	-------------------	--------------	-------------	------------	------	-----	--------	---------	------------	------------	---------	------	------

H24508

S.I. 1 S' C

S.I. 2 S'

S.I. 3 S'

S.I. 4 S'

S.I. 5 S'

S.I. 6 S'

S.I. 7 S'

S.I. 8 S'

S.I. 9 S'

S.I. 10 S'

S.I. 11 S'

S.I. 12 S'

S.I. 13 S'

S.I. 14 S'

S.I. 15 S'

S.I. 16 S'

# BILL TO

P.O. #:

Company: Spur

Attn: Bradley Walker

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX PRESERV SAMPLING

TPH Ext  
 BTEX  
 Chlorides

# ANALYSIS REQUEST

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 analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, 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: Date: 03/16 Received By: Signature

Relinquished By: Date: 03/16 Received By: Signature

Delivered By: (Circle One) 3-1c Sample Condition Cool Intact Yes No Checked BY: Initials 82

Sampler - UPS - Bus - Other: #140

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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

**Company Name:** Paragon Environmental

**Project Manager:** Cason Spurlock

**Address:** 5002 Carriage Rd

**City:** Hobbs

**Phone #:** 575-631-6977

**Project #:**

**Project Name:** Halberd 27 Booster Pump

**Project Location:** Eddy

**Sample Name:** Jockey Way

**FOR LAB USE ONLY**

**P.O. #:**

**Company:** Spur

**Attn:** Bradley Welden

**Address:**

**City:**

**State:** Zip:

**Phone #:**

**Fax #:**

**State:** NM **zip:** 88242

**Project Owner:** Spur

**Lab I.D.:** Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV	SAMPLING	DATE	TIME	TPH Ext	BTEX	Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								ICE / COOL
21	SW. 3 2'	C																
22	ESW. 1 3'																	
23	ESW. 2 2'																	
24	ESW. 3 5'																	
25	ESW. 4 2'																	
26	WSW. 1 3'																	
27	WSW. 2 2'																	
28	WSW. 3 5'																	
29	WSW. 4 2'																	

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**Relinquished By:** [Signature]

**Relinquished By:** [Signature]

**Delivered By:** (Circle One) 3.1c #140

**Sampler - UPS - Bus - Other:**

**Received By:** [Signature]

**Received By:** [Signature]

**Sample Condition:** Cool ☒ Intact ☒ Yes ☐ No ☐ No

**CHECKED BY:** [Signature]

**REMARKS:**



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

---

April 09, 2024

CHRIS JONES

PARAGON ENVIROMENTAL

1601 N TURNER ST., STE 500

HOBBS, NM 88240

RE: HALBERD 27 BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 04/03/24 9:36.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/03/2024  
Reported: 04/09/2024  
Project Name: HALBERD 27 BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 04/02/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 3' (H241717-01)**

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	04/04/2024	ND	2.17	109	2.00	2.04	
Toluene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.85	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.97	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.89	98.2	6.00	2.06	
Total BTEx	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 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	384	16.0	04/05/2024	ND	448	112	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	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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\*=Accredited Analyte

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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: 04/03/2024  
Reported: 04/09/2024  
Project Name: HALBERD 27 BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 04/02/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 16 2' (H241717-02)**

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	04/04/2024	ND	2.17	109	2.00	2.04	
Toluene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.85	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.97	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.89	98.2	6.00	2.06	
Total BTEX	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 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	176	16.0	04/05/2024	ND	448	112	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	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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\*=Accredited Analyte

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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: 04/03/2024  
Reported: 04/09/2024  
Project Name: HALBERD 27 BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 04/02/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: WSW - 2 2' (H241717-03)**

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	04/04/2024	ND	2.17	109	2.00	2.04		
Toluene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.85		
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.97		
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.89	98.2	6.00	2.06		
Total BTEX	<0.300	0.300	04/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 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	416	16.0	04/05/2024	ND	448	112	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	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/03/2024  
Reported: 04/09/2024  
Project Name: HALBERD 27 BOOSTER PUMP  
Project Number: NOT GIVEN  
Project Location: SPUR - EDDY

Sampling Date: 04/02/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: WSW - 3 5' (H241717-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2024	ND	1.99	99.7	2.00	0.0601	
Toluene*	<0.050	0.050	04/04/2024	ND	2.08	104	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.12	106	2.00	1.35	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	6.33	105	6.00	1.37	
Total BTX	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/05/2024	ND	448	112	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	04/04/2024	ND	222	111	200	7.23	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	206	103	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		P.O. #:		BILL TO										ANALYSIS REQUEST																									
Project Manager: Chris Jones		Company: SPUR																																					
Address: 1601 N. Turner St., Ste 500		Attn:																																					
City: Hobbs		Address:																																					
Phone #: 575-964-7814		City:																																					
Fax #:		State:																																					
Project #:		Zip:																																					
Project Name: Halbed 27 booster pump		Phone #:																																					
Project Location: Rural Eddy		Fax #:																																					
Sampler Name: Jensen's Manor																																							
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
1		5-7-3		1		1		1		1		1		1		1		1		1		1		1		1		1		TPH									
2		5-16-2		1		1		1		1		1		1		1		1		1		1		1		1		1		BTEX									
3		WSW-2		1		1		1		1		1		1		1		1		1		1		1		1		1		Chlorides									
4		WSW-3		1		1		1		1		1		1		1		1		1		1		1		1		1											
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Relinquished By: [Signature]		Date: 04/03		Received By: [Signature]		Date: 04/03		Time: 0830		Sample Condition: Cool Intact [X] Yes [ ] No		CHECKED BY: [Signature]		Phone Result: [ ] Yes [ ] No		Fax Result: [ ] Yes [ ] No		Add'l Phone #: [ ]		Add'l Fax #: [ ]																			
Delivered By: (Circle One)		-10-0		#140		Sample Condition: Cool Intact [X] Yes [ ] No		CHECKED BY: [Signature]		Phone Result: [ ] Yes [ ] No		Fax Result: [ ] Yes [ ] No		Add'l Phone #: [ ]		Add'l Fax #: [ ]																							
Sampler - UPS - Bus - Other:																																							

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

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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
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QUESTIONS  
  
Action 341104

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	341104
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2336154693
Incident Name	NAPP2336154693 HALBERD BOOSTER PUMP @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	HALBERD BOOSTER PUMP
Date Release Discovered	12/27/2023
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: Corrosion   Valve   Produced Water   Released: 48 BBL   Recovered: 46 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)	CORROSION OF A VALVE ON THE TRANSFER PUMP DISCHARGE LINE CAUSED A PRODUCED WATER RELEASE INTO LINED CONTAINMENT AND ONTO THE LOCATION PAD

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QUESTIONS, Page 2

Action 341104

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	341104
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 01/08/2024
--	--



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QUESTIONS, Page 3

Action 341104

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	341104
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 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 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)	18000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	13.5
GRO+DRO	(EPA SW-846 Method 8015M)	13.5
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	03/26/2024
On what date will (or was) the remediation complete(d)	04/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	3290
What is the estimated volume (in cubic yards) that will be reclaimed	425
What is the estimated surface area (in square feet) that will be remediated	3290
What is the estimated volume (in cubic yards) that will be remediated	425

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

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

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QUESTIONS, Page 4  
  
Action 341104

QUESTIONS (continued)

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:  328947
	Action Number:  341104
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 05/06/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 341104

**QUESTIONS (continued)**

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	341104
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 341104

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	341104
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	325874
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	3290

**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	3290
What was the total volume (cubic yards) remediated	425
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	3290
What was the total volume (in cubic yards) reclaimed	425
Summarize any additional remediation activities not included by answers (above)	SOIL CONTAMINATION WAS REMOVED TO MEET THE CLOSURE CRITERIA SET FORTH BY NMOCD

*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: 05/06/2024
--	--

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QUESTIONS, Page 7  
  
Action 341104

QUESTIONS (continued)

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 341104
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



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CONDITIONS  
  
Action 341104

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	341104
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Areas not reasonably needed for production or drilling activities will need to be reclaimed and revegetated as early as practicable. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one 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. 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; a revegetation plan	5/7/2024
scwells	Remediation closure approved. Pursuant to 19.15.29.12D(1)a NMAC, the responsible party must submit sampling notification for all final sampling. A sampling notice was submitted for samples collected on 3/26/24 but not submitted for samples collected on 4/2/24. In future remediations, please submit notices for all samples collected for closure.	5/7/2024