Page 1 of 69

Incident ID	NAPP2231932450
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos o must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC)	District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in
Printed Name: Kathy Purvis.	Title: HSE Coordinator
Signature: Katherine Purvis	Date: 04/24/2023
email: <u>katherine.purvis@spurenergy.com</u>	Telephone: 575-441-8619
OCD Only	
Received by: Jocelyn Harimon	Date:04/24/2023
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by: Robert Hamlet	Date: 9/11/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced



April 18th, 2023

NMOCD District 2 Mike Bratcher Artesia, NM 88210

Bureau of Land Management Crisha Morgan Carlsbad Field Office

Re: Site Assessment, Remediation, and Closure

Report 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. nAPP2231932450

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment, conduct remediation activities, and reclaim the old containment area for the release site known as the Halberd Booster Pump (Halberd). Details of the release are summarized below:

Release Details			
Tyme of Beleases	Produced Water	Volume of Release: 20 bbls	
Type of Release: Produced Water		Volume Recovered: 1 bbls	
Source of Release:	Booster Pump	Date of Release: 11/11/22	
Was Immediate Notice Given?	No	If, Yes, to Whom? N/A	
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse: N/A	
Surface Owner:	State	Mineral Owner: State	

The south booster pump failed because of a high pressure line.

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

REGULATORY FRAMEWORK

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

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

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

Depth to groundwater information is provided in Appendix A.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the 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). The soil in this area is made up of Largo-Stony Land Complex, with 0 to 25 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Foster Eddy (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		
	Chloride	EPA 300.0	600 mg/kg		
	TPH	EPA SW-846	100 mg/lrg		
	(GRO+DRO+MRO)	Method 8015M	100 mg/kg		
<50 Feet	BTEX	EPA SW-846	50 mg/kg		
	BIEA	Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846	10 mg/kg		
	Delizelle	Method 8021B or 8260B	10 mg/kg		

INITIAL SITE ASSESSMENT

On December 27th, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had came out of the booster and ran down to the nearest low spot south of the containment. Four (4) soil samples were collected in this area in an effort to determine the vertical extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

12-27-22 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Dat	e 12-27-22	Closure Criteria ≤50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
	0-6"	ND	ND	ND	ND	ND	ND	624
S-1	1'	ND	ND	ND	ND	ND	ND	208
3-1	2'	ND	ND	ND	ND	ND	ND	112
	3'	ND	ND	ND	ND	ND	ND	112
	0-6"	ND	ND	ND	ND	ND	ND	448
	1'	ND	ND	ND	ND	16.4	16.4	9330
S-2	2'	ND	ND	ND	ND	ND	ND	6800
	3'	ND	ND	ND	ND	ND	ND	1200
	4'	ND	ND	ND	ND	ND	ND	1010
	0-6"	ND	ND	ND	ND	ND	ND	32
	1'	ND	ND	ND	ND	ND	ND	32
S-3	2'	ND	ND	ND	ND	ND	ND	32
	3'	ND	ND	ND	ND	ND	ND	16
	4'	ND	ND	ND	ND	ND	ND	16
	0-6"	ND	ND	ND	ND	ND	ND	16
	1'	ND	ND	ND	ND	ND	ND	32
S-4	2'	ND	ND	ND	ND	ND	ND	112
	3'	ND	ND	ND	ND	ND	ND	112
	4'	ND	ND	ND	ND	ND	ND	16

(ND) - Analyte Not Detected

A Site Map & Sample Maps are provided in Figures #1 and #5.

REMEDIATION ACTIVITIES

On February 6th, 2023, 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 on the north side of the containment and travelled around the west side and all the way down to the south side of the containment to where the spill had ended. The area of S-1 was excavated to a depth of 1.5 feet BGS. The area of S-2 was excavated to a depth of 5 feet BGS. Email notification was sent to the NMOCD. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50') Closure Closure Closure Closure Criteria Criteria Sample Date 3-10-23 Criteria Criteria ≤ 50 ≤ 10 ≤ 100 mg/kg ≤ 600 mg/kg mg/kg mg/kg Sample ID Depth (BGS) **BTEX** Benzene GRO DRO MRO **Total TPH** CHLORIDES BC - 1 1.5 400 --0 1.5 BC - 2 ----------0 480 BC - 3 5' --__ __ __ 0 80 BC - 4 5' 0 96 E. SW 1.5 ND ND ND ND ND 0 64 1.5' ND ND ND N. SW 1 ND ND 0 1060 N. SW 2 5' ND ND ND ND ND 0 64 s. sw 5' ND ND ND ND ND 0 80 W. SW 5' ND ND ND ND ND 896

3-10-23 Confirmation Samples

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

Upon receiving these sample results, an additional foot was removed from the walls of N.SW 1 and W.SW. We then emailed the NMOCD, giving them a 48-hour notification that we would obtain confirmation samples. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this event are in the following data table.

							,	
ı	MOCD Table	1 Closure Cri	teria 19.15.	29 NMAC	(Depth to	o Ground	water is <50')	
Sample Date	4-10-23	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
NSW - 1 Comp	5'						0	48
WSW Comp	51						0	1///

4-10-23 Confirmation Samples (On-Pad Area)

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

These laboratory analytical results showed that the confirmation soil samples indicated concentrations below NMOCD Closure Criteria. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled with "like" material obtained from Lea Land. The affected area was then contoured and machine compacted to match the surrounding grade.

CLOSURE REQUEST

After careful review, Paragon requests that the incident, nAPP2231932450, be closed. Spur has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

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

Respectfully,

Tristan Jones

Project Coordinator

Paragon Environmental, LLC



Chris Jones

Environmental Professional Paragon Environmental, LLC



Attachments

Figures:

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

Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey and FEMA Flood Map

Appendix C - C-141

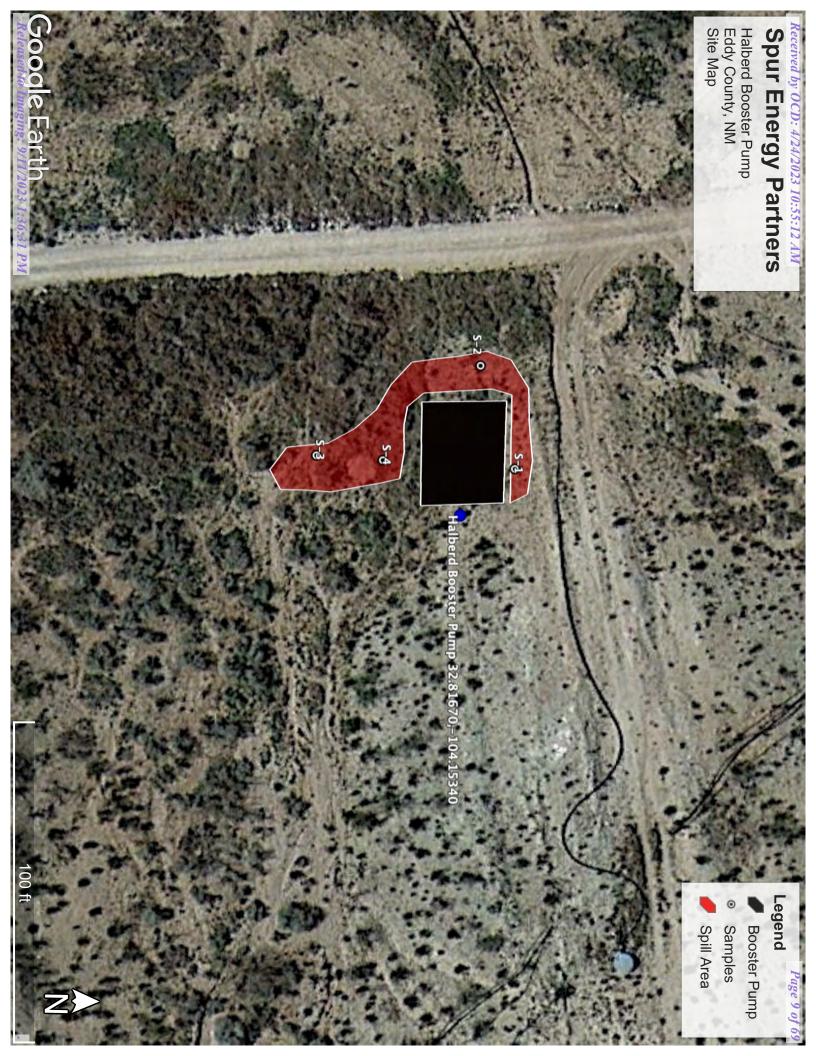
Appendix D – Email Notification & Photographic Documentation

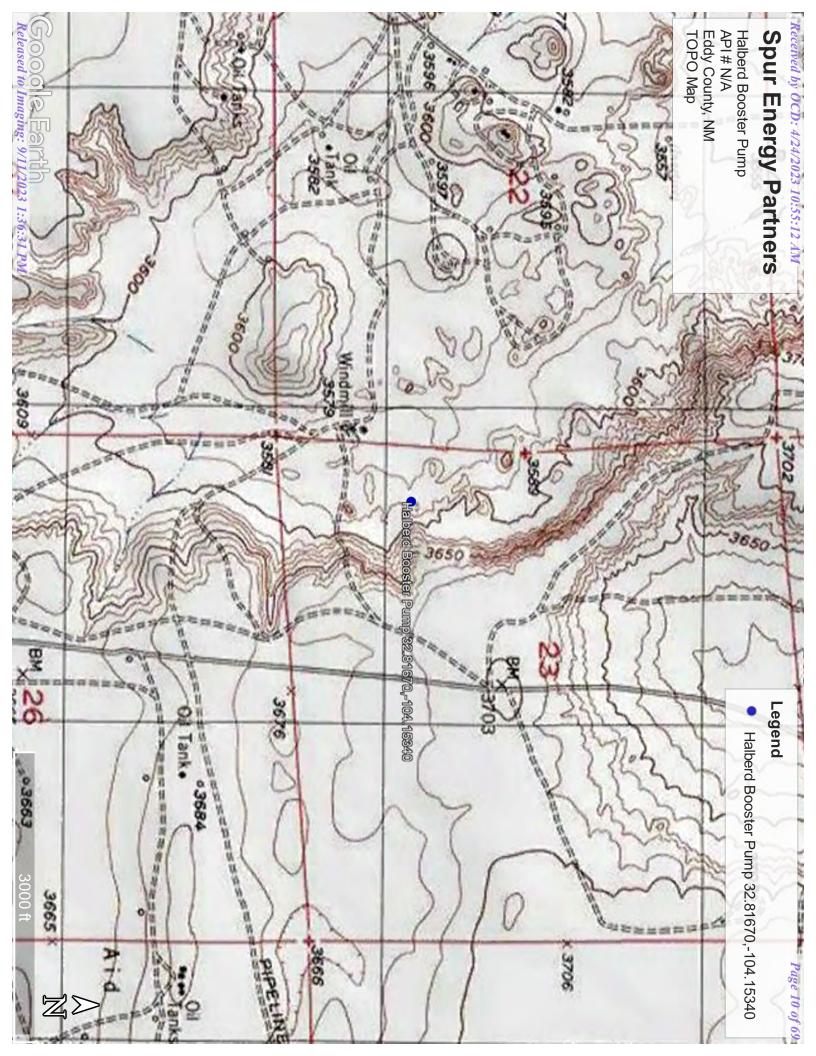
Appendix E – Laboratory Reports

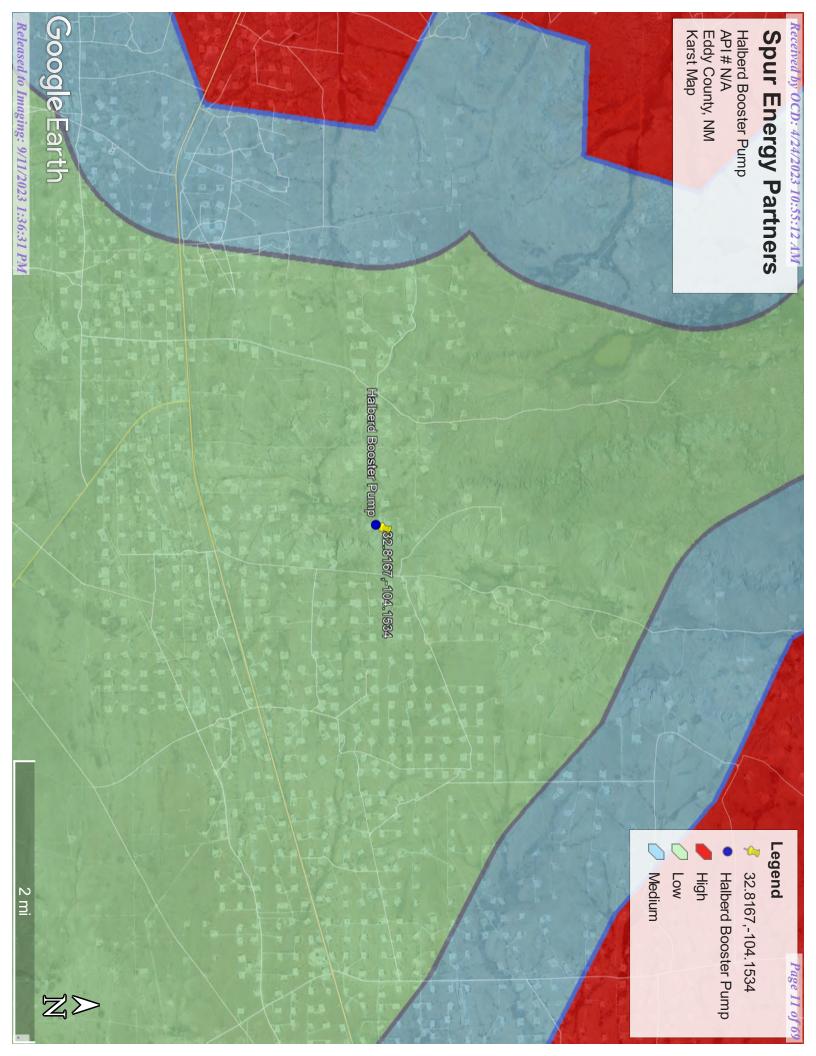


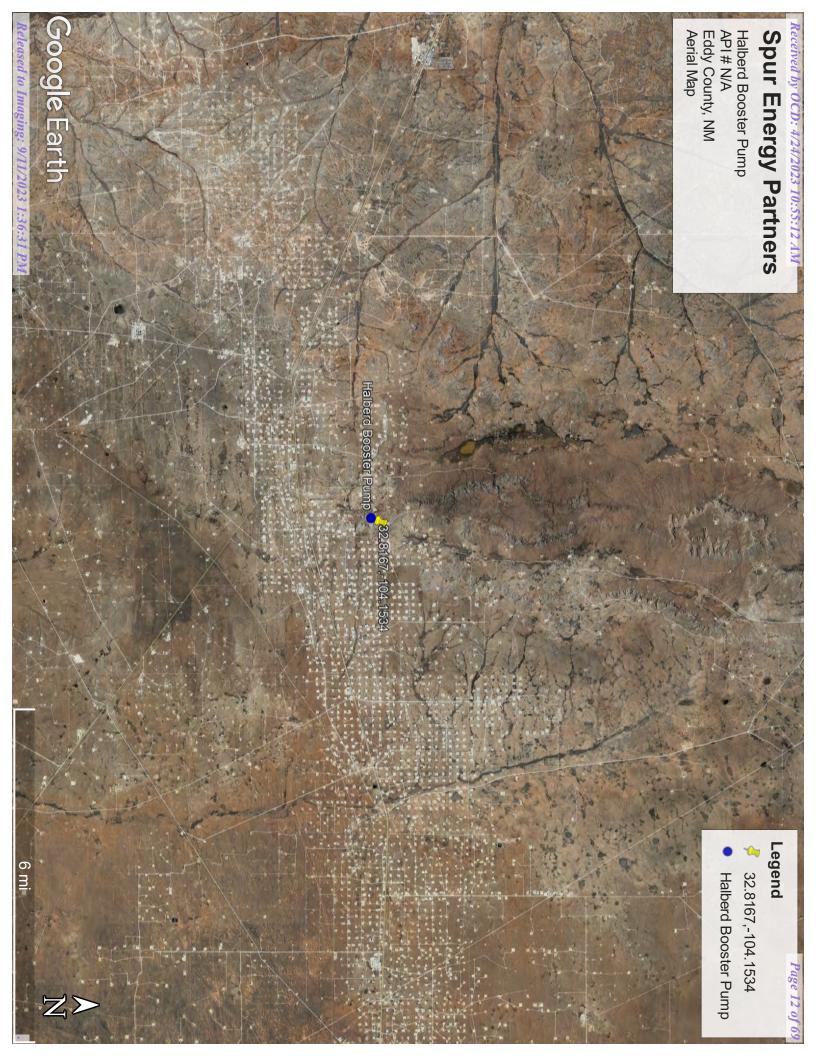
Figures:

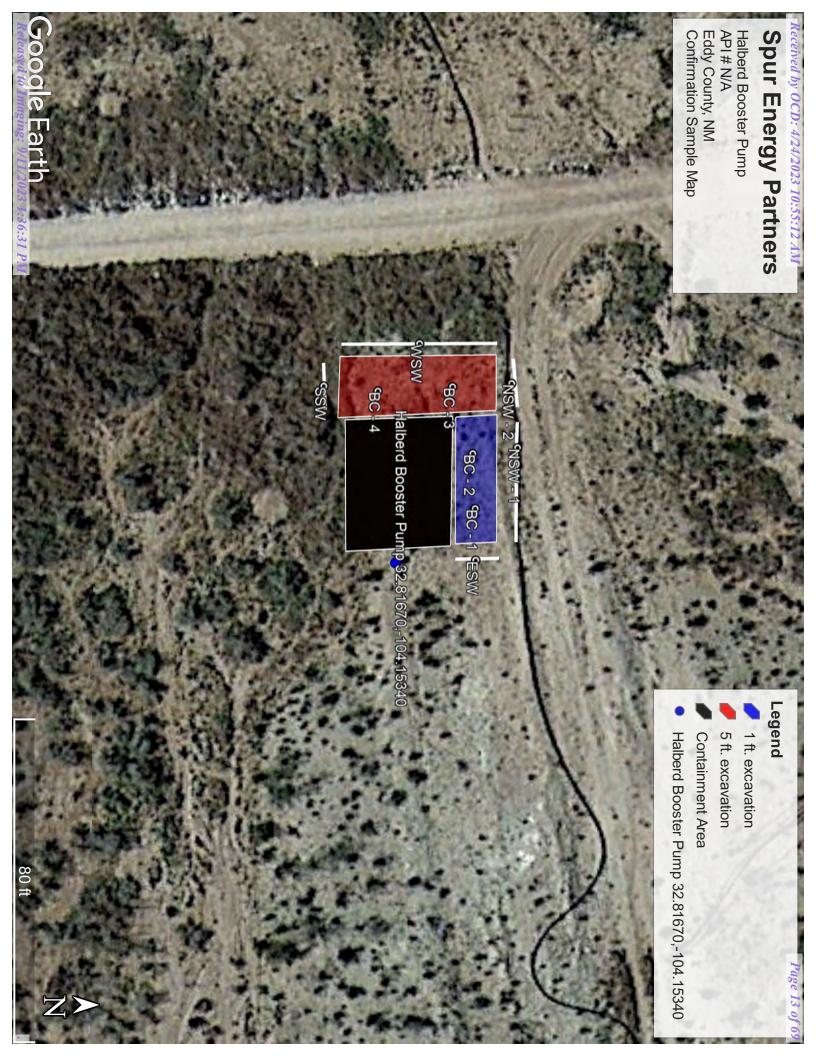
- 1-Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map
- 5- Confirmation Sample Map













Appendix A Referenced Water Data:

New Mexico State of Engineers Office



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD

RA

QQQ

Water

POD Number RA 12307 POD1

Subbasin County 64 16 4 Sec Tws Rng Code 4 2 2 14 17S 28E

X 580495 3633981 DistanceDepthWellDepthWater Column 140

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

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

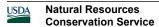
mmhos/cm)

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



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

04°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

With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE)

Zone A, V, A99

Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average

areas of less than one square mile Zone X depth less than one foot or with drainage

Chance Flood Hazard Zone X **Future Conditions 1% Annual**

Levee. See Notes. Zone X Area with Reduced Flood Risk due to

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

OTHER AREAS

Area of Undetermined Flood Hazard Zone D

STRUCTURES | 1111111 Levee, Dike, or Floodwall GENERAL ---- Channel, Culvert, or Storm Sewer

Water Surface Elevation Cross Sections with 1% Annual Chance

ุ่ ๛ ฐฺฺ ํ ํ ํ ํ ํ ํ ํ ํ Base Flood Elevation Line (BFE) Limit of Study Coastal Transect

 Coastal Transect Baseline Jurisdiction Boundary

Profile Baseline Hydrographic Feature

FEATURES

OTHER

Digital Data Available



MAP PANELS

Unmapped



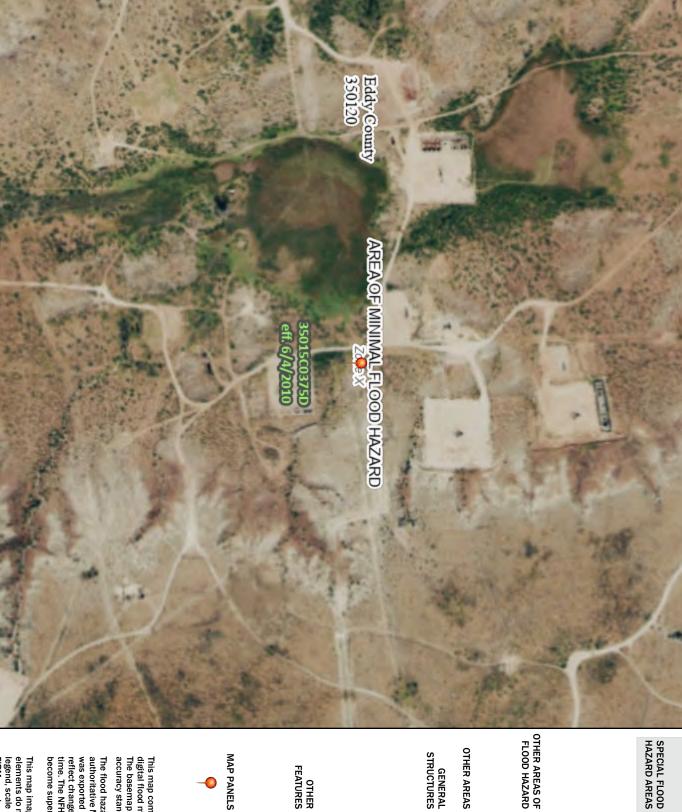
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

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

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

104°8'54"W 32°48'45"ľ



1,500

1:6,000

Feet



Appendix C:

C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party					OGRID		
Contact Name				Contact T	Contact Telephone		
Contact email					(assigned by OCI	D)	
Contact mail	ing address						
			Location	of Release S	ource		
Latitude			(NAD 83 in dec	Longitude imal degrees to 5 decir	mal places)		
Site Name				Site Type			
Date Release	Discovered			API# (if app	plicable)		
Unit Letter	Section	Township	Range	Cour	nty		
Crude Oil	Material	Federal Tr	Nature and	Volume of	justification for t	he volumes provided below) covered (bbls)	
Produced		Volume Release			Volume Recovered (bbls)		
Troduced	Water		ion of dissolved cl	nloride in the	Yes No		
Condensa	te	Volume Released	d (bbls)		Volume Rec	covered (bbls)	
☐ Natural G	as	Volume Released	d (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)				units)	Volume/We	ight Recovered (provide units)	
Cause of Rela	ease						

Received by OCD: 4/24/2023 10:55:12 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	tice given to the OCD? By whom? To when	nom? When and by what means (phone, email, etc)?
11 1 20, 11 11 11 11 11 11 11	ente girva te ale e ez r zy maemir re mi	(Pilone, Villan, Villa
	Initial R	esponse
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach a	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigations.	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature: Katherine	Purvis	Date:
		Telephone:
OCD Only		
Received by: Joc	elyn Harimon	Date:11/152022

State of New Mexico Oil Conservation Division

Form C-141

Incident ID	NAPP2231932450
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site man showing impacted area surface features subsurface features delineation points and monitoring well	le

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
🔯 Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps
Laboratory data including chain of custody
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan Received by OCD: 4/24/2023 10:55:12 AM Form C-141 State of New Mexico Oil Conservation Division Page 2

	Page 24 of	6
)	NAPP2231932450	
)		

Incident ID	NAPP2231932450
District RP	
Facility ID	
Application ID	

and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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 notification public health or the environment. The acceptance of a C-141 report by the Offailed to adequately investigate and remediate contamination that pose a three addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In						
Printed Name: Kathy Purvis.	Title: HSE Coordinator						
Signature: <u>Katherine Purvis</u>	Date: 04/24/2023						
email: <u>katherine.purvis@spurenergy.com</u>	Telephone: 575-441-8619						
OCD Only Received by: Jocelyn Harimon	Date:04/24/2023						

Page 25 of 69

Incident ID	NAPP2231932450
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Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following ite	ms must be included in the closure report.
△ A scaled site and sampling diagram as described in 19.15.29.11	NMAC
□ Photographs of the remediated site prior to backfill or photos o must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC)	District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in
email: katherine.purvis@spurenergy.com	Telephone: 575-441-8619
OCD Only	
Received by: Jocelyn Harimon	Date:04/24/2023
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:
Printed Name:	Title:



Appendix D:

Email Notification

Photographic Documentation

Subject: Re: [EXTERNAL] nAPP2231932450

Date: Tuesday, March 7, 2023 at 5:00:22 PM Central Standard Time

From: Chris Jones

To: Bratcher, Michael, EMNRD, Hamlet, Robert, EMNRD, Nobui, Jennifer, EMNRD, ocdonline,

emnrd, EMNRD, Enviro, OCD, EMNRD

CC: Katherine Purvis, Braidy Moulder, Tristan Jones (Tristan@paragonenvironmental.net), Jeremy

Maner

Attachments: image001.jpg, image002.jpg, image003.jpg

Mike,

We will be obtaining confirmation samples at the Halberd Booster Pump for the above-referenced incident on 3-10-23 at approximately 8 am

Thank You,

Chris Jones Environmental Professional 1601 N. Turner Ste. 500 Hobbs, NM 88240 chris@paragonenvironmental.net 575-631-6977 cell



"We do not inherit the Earth from our ancestors; we borrow it from our children." Chief Seattle

From: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Date: Tuesday, March 7, 2023 at 3:52 PM

To: Chris Jones <chris@paragonenvironmental.net>, "Hamlet, Robert, EMNRD"

<Robert.Hamlet@emnrd.nm.gov>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>,

"ocdonline, emnrd, EMNRD" <emnrd.ocdonline@emnrd.nm.gov>, "Enviro, OCD, EMNRD"

<OCD.Enviro@emnrd.nm.gov>

Cc: Katherine Purvis <katherine.purvis@spurenergy.com>, Braidy Moulder

<bmoulder@spurenergy.com>, "Tristan Jones (Tristan@paragonenvironmental.net)"

<tristan@paragonenvironmental.net>, Jeremy Maner < jeremy@paragonenvironmental.net>

Subject: RE: [EXTERNAL] nAPP2231932450

Chris,

I attempted to call, but went to voicemail, so I will just lay it out here in black and white. The rule requires two business days notification. I had hoped to not make too big a deal out of this but you seem insist on pushing things in that direction. Samples collected at the Halberd Booster Pump on 3/9/23 will not be

Wednesday, April 19, 2023 at 12:49:39 Central Daylight Time

Subject: Confirmation Sample Notification

Date: Wednesday, April 5, 2023 at 4:28:59 PM Central Daylight Time

From: Tristan Jones

To: mike.bratcher@state.nm.us, Robert.Hamlet@state.nm.us, Jennifer.Nobui@state.nm.us, Chris

Jones, katherine.purvis@spurenergy.com, bmoulder@spurenergy.com, Angel Pena, Jeremy Maner

All,

Good morning! This is to inform you all that we will be collecting confirmation samples at the Halberd Booster Pump on 04-10-23 at 12:00 PM. If you have any questions or concerns, please let me know.

Incident number - nAPP2231932450

Thank you,

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



Photographic Documentation

Before Remediation











Photographic Documentation

During Remediation







Photographic Documentation

Post Remediation







Appendix E:

Laboratory Results



January 03, 2023

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: HALBERD

Enclosed are the results of analyses for samples received by the laboratory on 12/27/22 15:36.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 12/27/2022 Reported: 01/03/2023

Project Name: HALBERD
Project Number: NOT GIVEN

Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes)

Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 0-6" (H226080-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.2	% 46.3-17	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 12/27/2022
 Sampling Date:
 12/27/2022

 Reported:
 01/03/2023
 Sampling Type:
 Soil

Project Name: HALBERD Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: SPUR - EDDY COUNTY

ma/ka

Sample ID: S - 1 1' (H226080-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/28/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/28/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/28/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 12/27/2022 Reported:

01/03/2023

ma/ka

Project Name: **HALBERD** Project Number: NOT GIVEN

SPUR - EDDY COUNTY Project Location:

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 2' (H226080-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	83.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.4	% 46.3-17	8						

Applyzod By: 14

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 12/27/2022

Reported: 01/03/2023 **HALBERD**

Project Name: Project Number: NOT GIVEN

SPUR - EDDY COUNTY Project Location:

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Shalyn Rodriguez Sample Received By:

Sample ID: S - 1 3' (H226080-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	< 0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	71.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.2	% 46.3-17	78						

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Celeg D. Freene



Analytical Results For:

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

Received: 12/27/2022 Reported: 01/03/2023

Project Name: HALBERD
Project Number: NOT GIVEN

Project Location: SPUR - EDDY COUNTY

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 1' (H226080-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/30/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	16.4	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	98.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	<i>'8</i>						

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Celey D. Keene



12/27/2022

Soil

Analytical Results For:

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

Received: 12/27/2022 Sampling Date:
Reported: 01/03/2023 Sampling Type:

Project Name: HALBERD Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: SPUR - EDDY COUNTY

Sample ID: S - 2 2' (H226080-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	84.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.0	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Received: 12/27/2022 Reported:

01/03/2023

Project Name: **HALBERD** Project Number: NOT GIVEN

SPUR - EDDY COUNTY Project Location:

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 3' (H226080-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	109	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	121	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Received: 12/27/2022 Sampling Date: 12/27/2022

Reported: 01/03/2023 Sampling Type: Soil

Project Name: **HALBERD** Sampling Condition: ** (See Notes) Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

SPUR - EDDY COUNTY Project Location:

Sample ID: S - 2 4' (H226080-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103 9	46.3-17	8						

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Celey D. Keine



12/27/2022

Soil

Analytical Results For:

PARAGON ENVIROMENTAL CASON SPURLOCK 5002 CARRAIGE RD HOBBS NM, 88242

Fax To:

Received: 12/27/2022 Sampling Date: Reported: 01/03/2023 Sampling Type:

Project Name: **HALBERD** Sampling Condition: ** (See Notes) Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

SPUR - EDDY COUNTY Project Location:

Sample ID: S - 2 0-6" (H226080-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	106 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	6 46.3-17	8						

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Analytical Results For:

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

Received: 12/27/2022 Reported:

01/03/2023

Project Name: **HALBERD** Project Number: NOT GIVEN

SPUR - EDDY COUNTY Project Location:

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: S - 3 0-6" (H226080-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.11	106	2.00	1.09	
Toluene*	<0.050	0.050	12/31/2022	ND	2.21	111	2.00	0.780	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.14	107	2.00	0.957	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.59	110	6.00	1.05	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	93.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 12/27/2022

Reported: 01/03/2023 Project Name: HALBERD

Project Location: SPUR - EDDY COUNTY

NOT GIVEN

ma/ka

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: S - 3 1' (H226080-11)

Project Number:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.06	103	2.00	2.05	
Toluene*	<0.050	0.050	12/31/2022	ND	2.18	109	2.00	1.60	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.12	106	2.00	0.240	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.52	109	6.00	0.0225	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.8	% 46.3-17	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

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

Received: 12/27/2022 Reported: 01/03/2023

Project Name: HALBERD
Project Number: NOT GIVEN

Project Location: SPUR - EDDY COUNTY

ma/ka

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: S - 3 2' (H226080-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/31/2022	ND	2.06	103	2.00	2.05	
Toluene*	<0.050	0.050	12/31/2022	ND	2.18	109	2.00	1.60	
Ethylbenzene*	<0.050	0.050	12/31/2022	ND	2.12	106	2.00	0.240	
Total Xylenes*	<0.150	0.150	12/31/2022	ND	6.52	109	6.00	0.0225	
Total BTEX	<0.300	0.300	12/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	94.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

Applyzod By: 14

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Celey D. Keine



12/27/2022

Soil

Analytical Results For:

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

Received: 12/27/2022 Sampling Date:
Reported: 01/03/2023 Sampling Type:

Project Name: HALBERD Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: SPUR - EDDY COUNTY

Sample ID: S - 3 3' (H226080-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	89.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.9	% 46.3-17	8						

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Celey D. Keene



Sample Received By:

12/27/2022

Shalyn Rodriguez

Analytical Results For:

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

Received: 12/27/2022 Sampling Date:

Reported: 01/03/2023 Sampling Type: Soil

Project Name: HALBERD Sampling Condition: ** (See Notes)

Project Number: NOT GIVEN
Project Location: SPUR - EDDY COUNTY

Sample ID: S - 3 4' (H226080-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	60.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	63.9	% 46.3-17	8						

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Analytical Results For:

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

Received: 12/27/2022

Reported: 01/03/2023 Project Name: **HALBERD** Project Number:

SPUR - EDDY COUNTY Project Location:

NOT GIVEN

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Shalyn Rodriguez Sample Received By:

Sample ID: S - 4 0-6" (H226080-15)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	< 0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	86.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.2	% 46.3-17	8						

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Analytical Results For:

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

Received: 12/27/2022 Reported:

01/03/2023 **HALBERD**

Project Name: Project Number: NOT GIVEN

SPUR - EDDY COUNTY Project Location:

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 1' (H226080-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0 16.0		12/28/2022 ND		416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/28/2022	ND	189	94.7	200	2.61	
DRO >C10-C28*	<10.0	10.0	12/28/2022	ND	175	87.7	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	12/28/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	6 46.3-17	8						

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 12/27/2022 Reported:

01/03/2023

ma/ka

Project Name: **HALBERD** Project Number: NOT GIVEN

SPUR - EDDY COUNTY Project Location:

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 2' (H226080-17)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	212	106	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	190	94.8	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	83.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.3	% 46.3-17	8						

Analyzed By: 1H /

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Celeg D. Freene



Analytical Results For:

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

Received: 12/27/2022 Sampling Date: 12/27/2022 Reported: 01/03/2023 Sampling Type: Soil

Project Name: **HALBERD** Sampling Condition: ** (See Notes) Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

SPUR - EDDY COUNTY Project Location:

Sample ID: S - 4 3' (H226080-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112 16.0		12/28/2022 ND		416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	212	106	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	190	94.8	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	103 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	6 46.3-17	8						

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Analytical Results For:

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

Received: 12/27/2022 Reported:

01/03/2023

ma/ka

Project Name: **HALBERD** Project Number: NOT GIVEN

SPUR - EDDY COUNTY Project Location:

Sampling Date: 12/27/2022

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 4' (H226080-19)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.15	108	2.00	5.91	
Toluene*	<0.050	0.050	12/30/2022	ND	2.15	107	2.00	7.30	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.13	106	2.00	8.17	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.39	107	6.00	8.47	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/28/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	212	106	200	1.55	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	190	94.8	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

Analyzed By: 1H /

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: Relinduished By Delivered By: (Circle One) Project Name: Phone #: 575-631-6977 Address: 5002 Carriage Rd Sampler Name: Project Location: Project Manager: Cason Spurlock Company Name: Paragon Environmental Lab I.D. † Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 Hobbs (575) 393-2326 FAX (575) 393-2476 Eddy County Sample I.D 17.29 1536 Project Owner: SPV2 State: NM zip: 88242 C.O.U. Sample Condition Received By: Propular (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER MATRIX OH SLUDGE State: OTHER Attn: Brady Wolder Phone #: City P.O. # Address ACID/BASE PRESERV CHECKED BY OTHER BILL TO 17.77 DATE SAMPLING Fax Result: TIME Ewail vesults to Ohis Jones not of the app TPH Ext. BTEX Chlorides □ Yes ON ON Add'I Fax #: ANALYSIS REQUEST

CARDINAL

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

STATE Sample I.D. Sample	IGIRAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OII SLUDGE
SERV. SAMPLING SERV. SAMPLING 12.17	SERV. SAMPLING DATE TIME THE EXT
	TPH Ent



March 17, 2023

TRISTAN JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 03/14/23 15:12.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



03/10/2023

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

PARAGON ENVIROMENTAL TRISTAN JONES 5002 CARRAIGE RD HOBBS NM, 88242

Fax To:

Received: 03/14/2023 Reported: 03/17/2023

Project Name: HALBERD BOOSTER PUMP

Project Number: NOT GIVEN

Project Location: EDDY, NM

Sample ID: BC - 1 (H231165-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result 400 Chloride 16.0 03/15/2023 ND 432 108 400 0.00

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Sample ID: BC - 2 (H231165-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 480 16.0 03/15/2023 ND 432 108 400 0.00

Sample ID: BC - 3 (H231165-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 80.0 16.0 03/15/2023 400 3.92 ND 400 100

Sample ID: BC - 4 (H231165-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM Reporting Limit Analyzed Method Blank True Value QC RPD Qualifier Analyte Result BS % Recovery Chloride 96.0 16.0 03/15/2023 ND 400 400 3.92 100

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Analytical Results For:

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

Received: 03/14/2023 Reported: 03/17/2023

Project Name: HALBERD BOOSTER PUMP

mg/kg

Project Number: NOT GIVEN
Project Location: EDDY, NM

Sampling Date: 03/10/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N. SW 1 (H231165-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Analyzed By: JH/

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Celey D. Keine



Analytical Results For:

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

Received: 03/14/2023 Reported: 03/17/2023

Project Name: HALBERD BOOSTER PUMP

ma/ka

Project Number: NOT GIVEN EDDY, NM

Project Location:

Sampling Date: 03/10/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: N. SW 2 (H231165-06)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

Analyzed By: 1H /

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Analytical Results For:

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

Received: 03/14/2023 Reported: 03/17/2023

Project Name: HALBERD BOOSTER PUMP

Project Number: NOT GIVEN
Project Location: EDDY, NM

Sampling Date: 03/10/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E. SW (H231165-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0 16.0		03/15/2023 ND		400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	'8						

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Analytical Results For:

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

Received: 03/14/2023 Reported: 03/17/2023

Project Name: HALBERD BOOSTER PUMP

Project Number: NOT GIVEN

Project Location: EDDY, NM Sampling Date: 03/10/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S. SW (H231165-08)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0 16.0		03/15/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 03/14/2023 Reported: 03/17/2023

Project Name: HALBERD BOOSTER PUMP

Project Number: NOT GIVEN Project Location: EDDY, NM

Sampling Date: 03/10/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: W. SW (H231165-09)

BTEX 8021B	mg/kg		Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.04	102	2.00	1.08	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.02	101	2.00	0.571	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.16	103	6.00	1.44	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896 16.0		03/15/2023 ND		400	100	400	3.92	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2023	ND	166	82.8	200	1.78	
DRO >C10-C28*	<10.0	10.0	03/15/2023	ND	165	82.7	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	03/15/2023	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Sampler - UPS - Bus - Other: Corre	,	Relinguished By:	affiliates or successors arising out of or related to the performance of services hereunder by Carlman, regardless of whether such claim is based upon any of the above sented resonate or necessor of the nec	PLEASE NOTE: Liability and Damages, Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatevower shall be deemed waived unless made in writing and received by Cardinat within 30 days after completion of the applicable service. In no event shall Cardinat be liable for incidental or consequential dariances including which a financial contract the contract of the applicable.	100	MS MB	MS-32	6 W.SW 2	I MS'NS	6-780	2- 30 2	1001	H23116S	Lab I.D. Sample I.D.		FOR LAB USE ONLY	- 2	about Box	Project #:	Phone #: 5 15 -631 -877	City: 40065	Address: 1901 M Um	Project Manager: Tr. Stan Jan-	Company Name: Portugon
Observed Temp. °C /		30	Date: 3/11	s exclusive remedy for any c se whatsoever shall be deep intal damages, including with	1							6				MENO	1	oster Pu	Project Owner:	Fax #:	State:	er ste		
Sample Condition Cool Intact Wes Wes No No No	veceived by:	Tamora V.	der by Cardinal, regardless of whether such claim is based upon are Received/By:	Italim arising whether based in contract or tort med walved unless made in writing and received first the following the state of the st							-	-	# CON		S ER	L	P	SI	Spor	A	Zip: 68 240 AI	500	P	
CHECKED BY: (Initials)		lalabox	ruse, or loss of profits incurred b	t, shall be limited to the amount , wed by Cardinal within 30 days a	-							-	ACID/B ICE / C OTHER	ASE: OOL	PRESERV.	1	Phone #:	State: Zip:	City:	Address:	Attn: Kathy P	Company: SPW	P.O. #:	BILL TO
Turnaround Time: Stan Rus Thermometer ID #113 Correction Factor -0.6°C	REMARKS:	are emailed. Ple	Yes	paid by the client for the filer completion of the applicable			-	,	7	- /		/	TP	H on do	EX.	7					Orvis			0
Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. No. Corrected Temp.		ase provide Email address:	□ No Add'I Phone #-										0 /											ANALYSIS REQUEST
ample Condition Observed Temp. °C																								TST



April 14, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: HALBERD BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 04/10/23 15:03.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 04/10/2023 Reported: 04/14/2023

Project Name: HALBERD BOOSTER PUMP

Project Number: **NOT GIVEN**

Project Location: SPUR - EDDY, NM Sampling Date: 04/10/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Shalyn Rodriguez

Sample ID: NSW - 1 COMP (H231675-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/13/2023	ND	416	104	400	0.00	
Chloride	48.0	16.0	04/13/2023	ND	416	104	400	0.00	

Sample ID: WSW COMP (H231675-02)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/13/2023	ND	416	104	400	0.00	

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental	BILL TO		ANALYSIS REQUEST
Project Manager: Chris Jones	P.O. #:		
Address: 1601 N. Turner St., Ste 500	company: SPUZ	2	
city: Hobbs state: NM	zip: 88240	Wolder	
Phone #: 575-964-7814 Fax #:			
Project #: Project Owner: SPUL	er: SPULL city:		
Project Name: Helberd Booster Dury			
ž	*		
5	Fax#:		
	ESERV.	SAMPLING	
Lab I.D. Sample I.D.	DGE HER: D/BASE: / COOL	Movides	
M331678	# COI GROI WAS' SOIL OIL SLUD OTHE ACIDA ICE /	DATE TIME	
	_	01/15	
a msm Compx		-	
sability and client and any other cau	any claim arising whether based in contract or tort, shall be limited to the are element while of unitess made in writing and received by Cardinal within 30 ng without limitation, business interruptions, loss of use, or loss of profits ino	mount paid by the silent for the days after completion of the applicable surred by client. Its subsidiaries.	
Relinquished By: Date:	Date: Received By:	Pho Fax REN	
Relinquished By: Date:	Received By:	* Customer requ	ested Mochangs.
Sampler - UPS - Bus - Other: -0.0 = #13	#1/3 Sample Condition CHECKED BY:	Emost Chris Jones results.	

Page 4 of 4

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

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 210097

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	210097
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	By Condition	Condition Date
rhaml	We have received your closure report and final C-141 for Incident #NAPP2231932450 HALBERD BOOSTER PUMP, thank you. This closure is approved.	9/11/2023