



October 13, 2023

NMOCD District 2  
Mike Bratcher  
Artesia, NM 88210

Bureau of Land Management  
Crisha Morgan  
Carlsbad Field Office

**Re: Site Assessment, Remediation, and Deferral Request  
Pintail Water Reuse 2  
API No. N/A  
GPS: Latitude 32.06139 Longitude -103.67677  
UL "B", Sec. 9, T26S, R32E  
Lea County, NM  
NMOCD Ref. No. nAPP2314932128**

Paragon Environmental, LLC (Paragon) has been contracted by Aris Water Midstream (Aris) to perform a spill assessment and conduct remedial activities for the release site known as the Pintail Water Reuse 2 (Pintail). Details of the release are summarized below:

Release Details			
<b>Type of Release:</b>	Produced Water	<b>Volume of Release:</b>	200 bbls
		<b>Volume Recovered:</b>	120bbls
<b>Source of Release:</b>	DAF Tank	<b>Date of Release:</b>	05/28/23
<b>Was Immediate Notice Given?</b>	Yes	<b>If, Yes, to Whom?</b>	NMOCD web portal NOR- email to NMOCD
<b>Was a Watercourse Reached?</b>	No	<b>If Yes, Volume Impacting Watercourse:</b>	N/A
<b>Surface Owner:</b>	Federal	<b>Mineral Owner:</b>	Federal
A pump failed on a DAF tank that was overfilled causing the release.			

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 Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (QEP). The soil in this area is made up of Pyote soils and Dune land, with 0 to 3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology around the Pintail (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 June 15th, 2022, Paragon conducted an initial site assessment on the Pintail. During the assessment, it was determined to gather samples in the area where the spill had flowed from the corroded valve and into the earthen bermed-contained area. Ten (10) 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. The tables summarizing laboratory analytical results from soil samples collected during the above-stated activities are provided below:

6-15-23 Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 6-15-23		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
S-1	0-6"	ND	ND	ND	ND	ND	ND	864
S-2	0-6"	ND	ND	ND	ND	ND	ND	816
S-3	1'	ND	ND	ND	ND	ND	ND	912
S-4	2'	ND	ND	ND	ND	ND	ND	1140
S-5	1'	ND	ND	ND	ND	ND	ND	1010
S-6	1'	ND	ND	ND	ND	ND	ND	160
S-7	1'	ND	ND	ND	53.9	11.7	65.6	352
S-8	0-6"	ND	ND	ND	ND	ND	ND	272
S-9	1'	ND	ND	ND	ND	ND	ND	32
S-10	0-6"	ND	ND	ND	ND	ND	ND	32

(ND) Analyte Not Detected

All Laboratory analytical reports are provided in Appendix E. A Site Map is provided in Figure #1.

## REMEDIATION ACTIVITIES

On July 3rd, 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.

- In the vicinity of S-9 and south of S-2, we utilized a Hydro Vac to expose underground lines in accordance with Aris and NM811 rules.
- The areas of S-1, S-2, S-6, S-7, and S-9 were excavated to a depth of 1' BGS.
- In the areas of S-3 and S-5, we excavated to a depth of 2' BGS.
- In the area of S-4, we excavated to a depth of 3' BGS.

On July 13, 2023, an email notification was sent to the NMOCD notifying them that we would be obtaining confirmation samples. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

## 7-21-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 7-21-23		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
S-1	1'	ND	ND	ND	50.4	ND	50.4	64
S-2	1'	ND	ND	ND	40.1	ND	40.1	80
S-3	1'	ND	ND	ND	17.2	ND	17.2	48
S-4	1'	ND	ND	ND	18.3	ND	18.3	64
S-5	1'	ND	ND	ND	26.7	ND	26.7	64
S-6	1'	ND	ND	ND	11.2	ND	11.2	64
S-7	1'	ND	ND	ND	15.8	ND	15.8	64
S-8	1'	ND	ND	ND	ND	ND	ND	48
S-9	1'	ND	ND	ND	ND	ND	ND	160
S-10	1'	ND	ND	ND	ND	ND	ND	144
S-11	2'	ND	ND	ND	ND	ND	ND	192
S-12	2'	ND	ND	ND	ND	ND	ND	208
S-13	2'	ND	ND	ND	ND	ND	ND	272
S-14	2'	ND	ND	ND	34.3	ND	34.3	288
S-15	2'	ND	ND	ND	33.8	ND	33.8	320
S-16	2'	ND	ND	ND	61.5	11.9	73.4	320
S-17	2'	ND	ND	ND	86.8	14.9	101.7	288
S-18	3'	ND	ND	ND	40.6	ND	40.6	240
S-19	3'	ND	ND	ND	77.7	14.5	92.2	256
S-20	3'	ND	ND	ND	30	ND	30	240
S-21	3'	ND	ND	ND	39.7	ND	39.7	192
S-22	1'	ND	ND	ND	31.9	ND	31.9	256
S-23	1'	ND	ND	ND	15.3	ND	15.3	208
S-24	1'	ND	ND	ND	ND	ND	ND	160
S-25	1'	ND	ND	ND	18.3	ND	18.3	528
S-26	1'	ND	ND	ND	ND	ND	ND	560
S-27	1'	ND	ND	ND	24.1	13.9	38	576
S-28	1'	ND	ND	ND	22.5	ND	22.5	560
S-29	1'	ND	ND	ND	27.6	ND	27.6	576
S-30	1'	ND	ND	ND	15.5	ND	15.5	576
S-31	1'	ND	ND	ND	27.4	ND	27.4	768

(ND) Analyte Not Detected

## 7-21-23 Confirmation Samples

S-32	1'	ND	ND	ND	26.4	ND	26.4	752
S-33	1'	ND	ND	ND	24.6	ND	24.6	688
S-34	1'	ND	ND	ND	22.8	ND	22.8	720
S-35	1'	ND	ND	ND	52.8	14.9	67.7	752
S-36	1'	ND	ND	ND	32.1	11.4	43.5	640
S-37	1'	ND	ND	ND	29.5	10.8	40.3	624
S-38	1'	ND	ND	ND	ND	ND	ND	1040
S-39	1'	ND	ND	ND	ND	ND	ND	960
S-40	1'	ND	ND	ND	ND	ND	ND	928
S-41	1'	ND	ND	ND	ND	ND	ND	720
S-42	1'	ND	ND	ND	ND	ND	ND	768
S-43	1'	ND	ND	ND	ND	ND	ND	896
S-44	1'	ND	ND	ND	ND	ND	ND	1330
NSW-1	1'	ND	ND	ND	ND	ND	ND	208
NSW-2	1'	ND	ND	ND	ND	ND	ND	64
NSW-3	2'	ND	ND	ND	ND	ND	ND	80
NSW-4	2'	ND	ND	ND	ND	ND	ND	160
WSW-1	1'	ND	ND	ND	14.1	ND	14.1	64
WSW-2	1'	ND	ND	ND	ND	ND	ND	64
WSW-3	2'	ND	ND	ND	ND	ND	ND	80
WSW-4	3'	ND	ND	ND	ND	ND	ND	48
WSW-5	1'	ND	ND	ND	ND	ND	ND	48
WSW-6	1'	ND	ND	ND	ND	ND	ND	176
SSW-1	1'	ND	ND	ND	ND	ND	ND	80
SSW-2	2'	ND	ND	ND	ND	ND	ND	32
SSW-3	2'	ND	ND	ND	10	ND	10	48
SSW-4	1'	ND	ND	ND	12.7	ND	12.7	80
SSW-5	1'	ND	ND	ND	11.3	ND	11.3	64
SSW-6	1'	ND	ND	ND	ND	ND	ND	48
SSW-7	1'	ND	ND	ND	ND	ND	ND	64
SSW-8	3'	ND	ND	ND	ND	ND	ND	176
ESW-1	1'	ND	ND	ND	ND	ND	ND	48
ESW-2	3'	ND	ND	ND	ND	ND	ND	48
ESW-3	2'	ND	ND	ND	ND	ND	ND	80
ESW-4	1'	ND	ND	ND	ND	ND	ND	160

(ND) Analyte Not Detected

These laboratory analytical results showed that the confirmation soil sample concentrations in the areas of S-31 through S-44 were not below NMOCD Closure Criteria. So we excavated down another foot from the bottom.

On August 1, 2023, an 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.

## 8-4-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 8-4-23		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
S-31	2'	ND	ND	ND	18	ND	18	110
S-32	2'	ND	ND	ND	25	ND	25	170
S-33	2'	ND	ND	ND	ND	ND	0	440
S-34	2'	ND	ND	ND	11	ND	11	710
S-35	2'	ND	ND	ND	10	ND	10	110
S-36	2'	ND	ND	ND	54	ND	54	570
S-37	2'	ND	ND	ND	ND	ND	0	310
S-38	2'	ND	ND	ND	13	ND	0	180
S-39	2'	ND	ND	ND	15	ND	15	100
S-40	2'	ND	ND	ND	ND	ND	0	540
S-41	2'	ND	ND	ND	ND	ND	0	360
S-42	2'	ND	ND	ND	ND	ND	0	320
S-43	2'	ND	ND	ND	32	ND	32	110
S-44	2'	ND	ND	ND	20	ND	20	720

(ND) Analyte Not Detected

These laboratory analytical results showed that the confirmation soil sample concentrations in the areas of S-34 and S-44 were not below NMOCD Closure Criteria. So we excavated down another six inches from the bottom.

On August 14, 2023, an additional 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.

## 8-17-23 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 8-17-23		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
S-34	2.5'	ND	ND	--	--	--	0	ND
S-44	2.5'	ND	ND	--	--	--	0	ND

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

Upon finding full vertical delineation of the spill, we performed field screens on the sidewalls that were in contact with the containment for the reuse pit. The results of these tests showed that there is still contamination horizontally under the containment of this site, which will need to be removed upon the decommissioning of this site.

These laboratory analytical results completed the delineation of this incident in accordance with deferral instructions for 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 Lea Land. The affected area was then contoured and compacted to match the surrounding grade.



### CLOSURE REQUEST

After careful review, Paragon respectfully requests that the incident, **nAPP2314932128**, be deferred until the decommissioning of the reuse site. Aris has complied with the applicable deferral requirements outlined in the C-141.

If you have any questions or need additional information, please get in touch with Chris Jones by phone at (575)631-6977 or email at [chris@paragonenvironmental.net](mailto:chris@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

# Aris Water Midstream

Pintail Water Reuse  
ID: nAPP2314932128  
Lea County, NM  
Site Map

## Legend

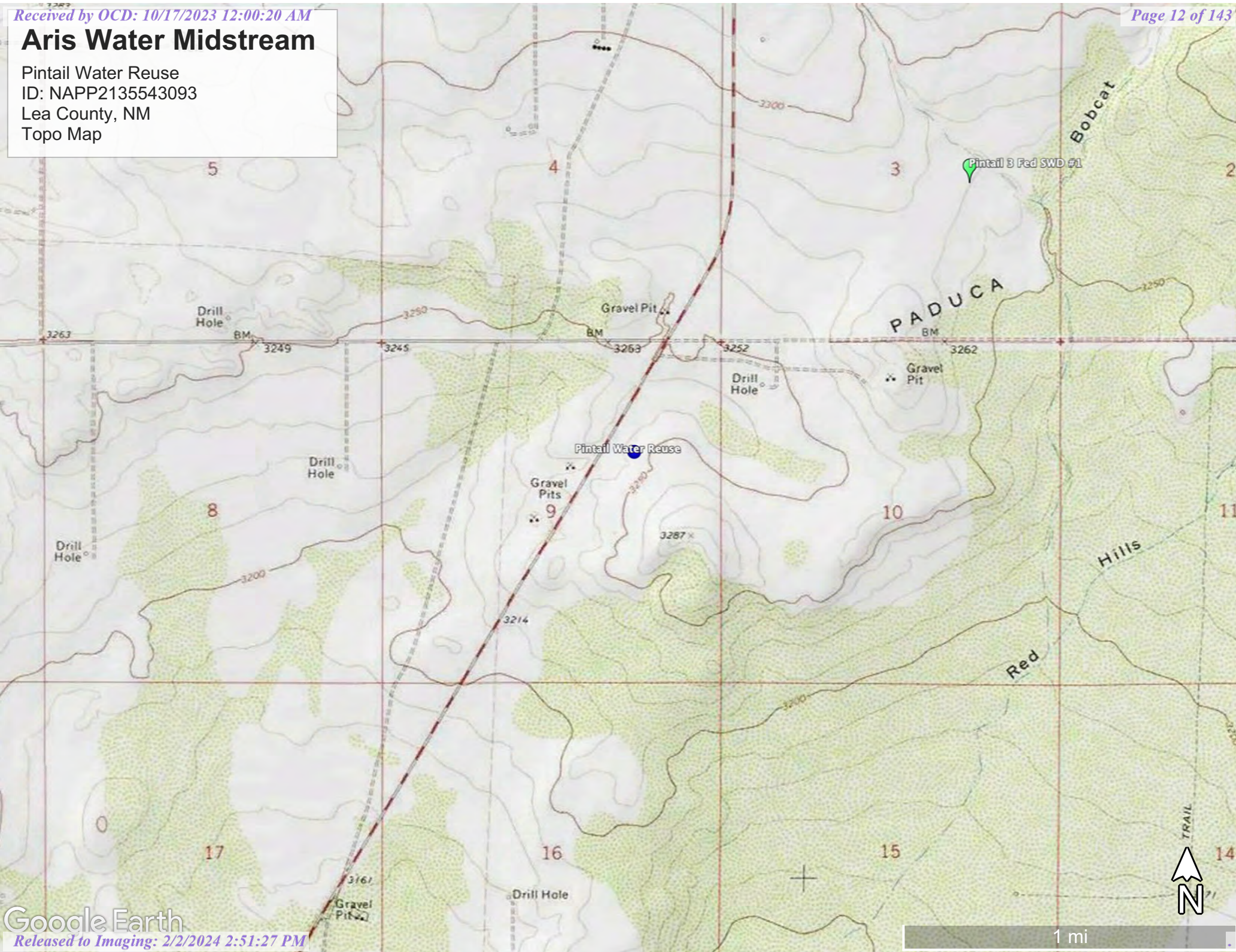
- ⊙ Samples
- Spill Area





# Aris Water Midstream

Pintail Water Reuse  
ID: NAPP2135543093  
Lea County, NM  
Topo Map





# Aris Water Midstream

Pintail Water Reuse  
ID: NAPP2135543093  
Lea County, NM  
Karst Map

## Legend

- High
- Low
- Medium

Pintail Water Reuse



1 mi



# Solaris Water Midstream

Pintail Water Reuse 2  
Lea County, NM  
Aerial Map

32.06139, -103.67677 Pintail Water Reuse Site

NEW MEXICO

Google Earth

Released to Imaging: 2/2/2024 2:51:27 PM

8 mi



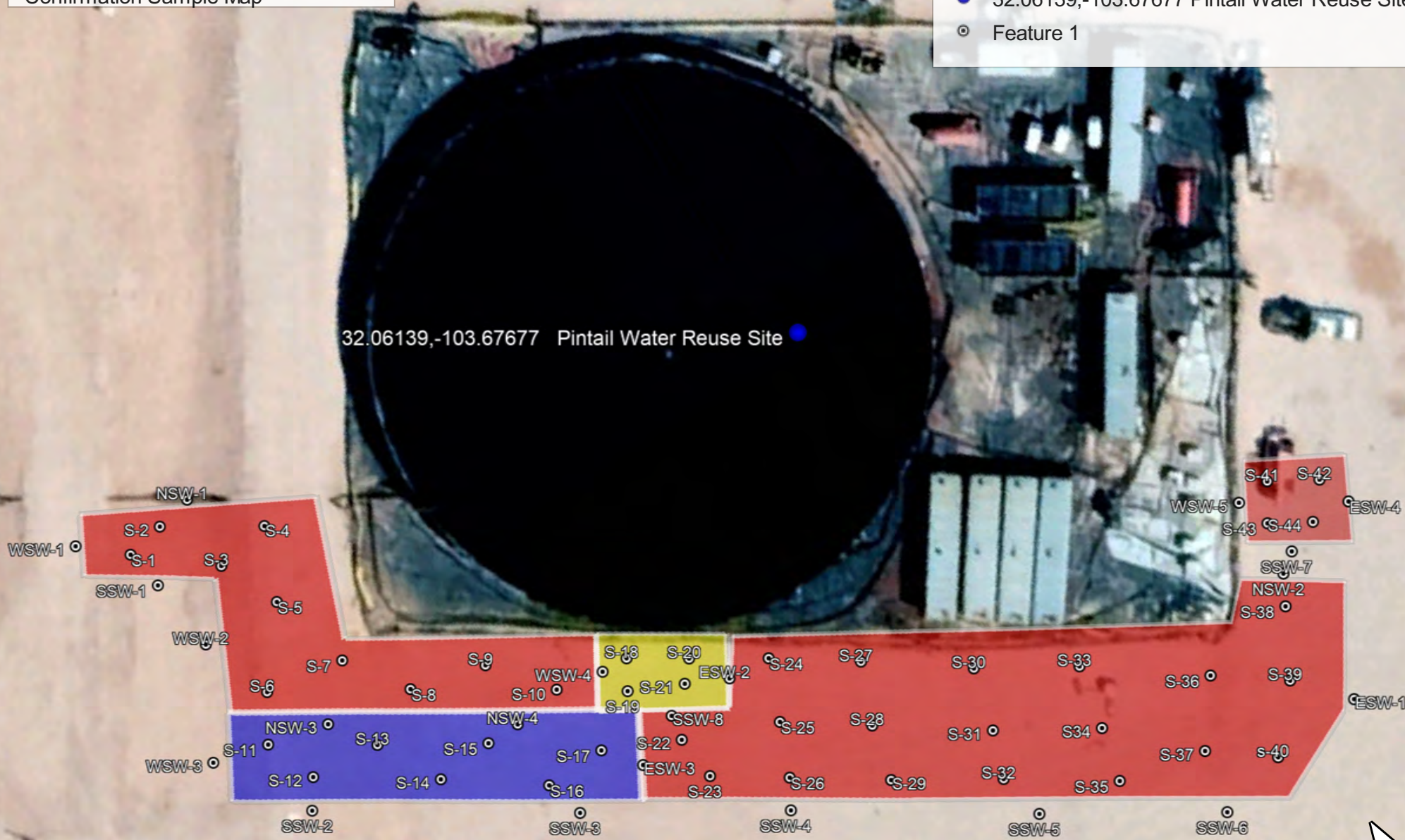


# Aris Water Midstream

Pintail Water Reuse Site  
Lea County, NM  
Confirmation Sample Map

## Legend

- 1' ft spill area
- 2' ft spill area
- 3' ft spill area
- 32.06139,-103.67677 Pintail Water Reuse Site
- Feature 1



Google Earth



Appendix A  
Referenced Water Data:

New Mexico State of Engineers Office





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,

O=orphaned,


C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 04549 POD1</a>		CUB	LE	1	1	1	11	26S	32E	627111	3548316	 1016	0	0	0
Average Depth to Water:														0 feet	
Minimum Depth:														0 feet	
Maximum Depth:														0 feet	

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 626589.745

Northing (Y): 3549189

Radius: 1500

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



Appendix B  
Soil Survey:

U.S.D.A.

FEMA Flood Map

Map Unit Description: Pyote soils and Dune land---Lea County, New Mexico

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## Lea County, New Mexico

### PY—Pyote soils and Dune land

#### Map Unit Setting

*National map unit symbol:* dmqr

*Elevation:* 3,000 to 4,400 feet

*Mean annual precipitation:* 10 to 15 inches

*Mean annual air temperature:* 60 to 64 degrees F

*Frost-free period:* 190 to 220 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent

*Dune land:* 44 percent

*Minor components:* 10 percent

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

#### Description of Pyote

##### Setting

*Landform:* Depressions

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 30 inches:* fine sand

*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Negligible

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

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

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

*Sodium adsorption ratio, maximum:* 2.0

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

Map Unit Description: Pyote soils and Dune land---Lea County, New Mexico

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**Interpretive groups**

*Land capability classification (irrigated): 6e*

*Land capability classification (nonirrigated): 7s*

*Hydrologic Soil Group: A*

*Ecological site: R042XC003NM - Loamy Sand*

*Hydric soil rating: No*

**Description of Dune Land****Setting**

*Landform: Dunes*

*Landform position (two-dimensional): Backslope, shoulder*

*Landform position (three-dimensional): Side slope*

*Down-slope shape: Convex, linear*

*Across-slope shape: Convex*

*Parent material: Sandy eolian deposits derived from sedimentary rock*

**Typical profile**

*A - 0 to 6 inches: fine sand*

*C - 6 to 60 inches: fine sand*

**Interpretive groups**

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 8*

*Hydrologic Soil Group: A*

*Hydric soil rating: No*

**Minor Components****Kermi**

*Percent of map unit: 5 percent*

*Ecological site: R042XC022NM - Sandhills*

*Hydric soil rating: No*

**Maljamar, fine sand**

*Percent of map unit: 3 percent*

*Ecological site: R042XC003NM - Loamy Sand*

*Hydric soil rating: No*

**Wink**

*Percent of map unit: 2 percent*

*Ecological site: R042XC003NM - Loamy Sand*

*Hydric soil rating: No*

**Data Source Information**

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 18, Sep 10, 2021

## National Flood Hazard Layer FIRMette



103°40'52"W 32°3'56"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
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Hydrographic Feature
		Digital Data Available
MAP PANELS		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 **5/2/2022 at 4:22 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 2/2/2024 2:34:27 PM

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



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	nAPP2314932128
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Solaris Water Midstream	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 432-203-9020 C 469-978-5620
Contact email Rob.Kirk@ariswater.com	Incident # (assigned by OCD)
Contact mailing address 3305 Boyd Drive, Carlsbad, NM 88220	

### Location of Release Source

Latitude 32.06139 Longitude -103.67677  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pintail Water Reuse 2	Site Type Facility
Date Release Discovered 28 May 2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	09	26S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 200 BBLs	Volume Recovered (bbls) 120BBLs
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release A pump failed on a DAF tank that was overfilled causing the release, operator was slow to respond.

Incident ID	nAPP2314932128
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>The volume of produced water released</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>NMOCD web portal NOR completed by Rob Kirk, email to NMOCD</b>	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <b>Rob Kirk</b>	Title: <b>Vice President, Environmental Compliance</b>
Signature: 	Date: <b>06/07/2023</b>
email: <b>Rob.Kirk@ariswater.com</b>	Telephone: <b>469-978-5620</b>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	



Incident ID	nAPP2314932128
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?	<u>    &lt;50    </u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **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

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 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.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2314932128
District RP	
Facility ID	
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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.

Printed Name: Rob Kirk

Title: Vice President, Environmental Compliance

Signature: \_\_\_\_\_

Date: 10/13/23

email: [rob.kirk@ariswater.com](mailto:rob.kirk@ariswater.com)

Telephone: 469-978-5620

**OCD Only**

Received by: Shelly Wells

Date: 10/17/2023

Incident ID	nAPP2314932128
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Rob Kirk

Title: Vice President, Environmental Compliance

Signature: \_\_\_\_\_

Date: 10/13/23

email: [rob.kirk@ariswater.com](mailto:rob.kirk@ariswater.com)

Telephone: 469-978-5620

**OCD Only**

Received by: Shelly Wells

Date: 10/17/2023

☐ Approved      ☐ Approved with Attached Conditions of Approval      ☐ Denied      ☐ Deferral Approved

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	nAPP2314932128
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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Rob Kirk

Title: Vice President, Environmental Compliance

Signature: \_\_\_\_\_

Date: 10/13/23

email: [rob.kirk@ariswater.com](mailto:rob.kirk@ariswater.com)

Telephone: 469-978-5620

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_

Date: 02/02/2024

Printed Name: \_\_\_\_\_

Nelson Velez

Title: \_\_\_\_\_

Environmental Specialist - Adv



Appendix D:

Email Notification

Photographic Documentation

Friday, October 13, 2023 at 11:28:26 Central Daylight Time

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**Subject:** Fwd: Confirmation Sample Notification

**Date:** Friday, October 13, 2023 at 10:10:09 AM Central Daylight Time

**From:** Angel Pena

**To:** Chris Jones

----- Forwarded message -----

From: **Tristan Jones** <[tristan@paragonenvironmental.net](mailto:tristan@paragonenvironmental.net)>

Date: Wed, Jul 19, 2023 at 6:48AM

Subject: Confirmation Sample Notification

To: <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>, <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>, <[bmoulder@spurenergy.com](mailto:bmoulder@spurenergy.com)>, Katherine Purvis <[katherine.purvis@spurenergy.com](mailto:katherine.purvis@spurenergy.com)>, Chris Jones <[chris@paragonenvironmental.net](mailto:chris@paragonenvironmental.net)>, Angel Pena <[angel@paragonenvironmental.net](mailto:angel@paragonenvironmental.net)>

All,

Good morning! This is to inform you all that we will be collecting confirmation samples at the Pintail Water Reuse Site for incident nAPP2314932128 on 07-21-23 at 10:00 AM. If you have any questions or concerns, please let me know.

Thank you,

Tristan Jones

Project Coordinator

[1601 N. Turner Ste. 500](#)

[Hobbs, NM 88240](#)

[tristan@paragonenvironmental.net](mailto:tristan@paragonenvironmental.net)

575-318-6841



Friday, October 13, 2023 at 08:10:30 Central Daylight Time

---

**Subject:** Pintail water reuse pit

**Date:** Tuesday, August 1, 2023 at 1:39:41 PM Central Daylight Time

**From:** Angel Pena

**To:** Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD, Tristan Jones, rob.kirk@ariswater.com

All,

Good morning! This is to inform you all that we will be collecting confirmation samples at the **Pintail** Water Reuse Site for incident nAPP2314932128 on 08-04-23 at 8:00 AM. If you have any questions or concerns, please let me know.

Thank you,

Angel Peña  
Paragon Environmental  
575-605-0773  
Field supervisor

Friday, October 13, 2023 at 08:10:00 Central Daylight Time

---

**Subject:** Pintail water reuse pit

**Date:** Monday, August 14, 2023 at 7:20:09 AM Central Daylight Time

**From:** Angel Pena

**To:** Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD, Tristan Jones, rob.kirk@ariswater.com

All,

Good morning! This is to inform you all that we will be collecting confirmation samples at the **Pintail** Water Reuse Site for incident nAPP2314932128 on 08-17-23 at 8:00 AM. If you have any questions or concerns, please let me know.

Thank you,

Angel Peña  
Paragon Environmental  
575-605-0773  
Field supervisor





## Photographic Documentation

### Incident





## Excavation







Completed









Appendix E:  
Laboratory Results

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

---

August 01, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PINTAIL REUSE PIT # 2

Enclosed are the results of analyses for samples received by the laboratory on 07/24/23 16:02.

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](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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 1'	H233860-01	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 2 1'	H233860-02	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 3 1'	H233860-03	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 4 1'	H233860-04	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 5 1'	H233860-05	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 6 1'	H233860-06	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 7 1'	H233860-07	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 8 1'	H233860-08	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 9 1'	H233860-09	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 10 1'	H233860-10	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 11 2'	H233860-11	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 12 2'	H233860-12	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 13 2'	H233860-13	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 14 2'	H233860-14	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 15 2'	H233860-15	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 16 2'	H233860-16	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 17 2'	H233860-17	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 18 3'	H233860-18	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 19 3'	H233860-19	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 20 3'	H233860-20	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 21 3'	H233860-21	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 22 1'	H233860-22	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 23 1'	H233860-23	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 24 1'	H233860-24	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 25 1'	H233860-25	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 26 1'	H233860-26	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 27 1'	H233860-27	Soil	21-Jul-23 00:00	24-Jul-23 16:02

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

S - 28	1'	H233860-28	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 29	1'	H233860-29	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 30	1'	H233860-30	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 31	1'	H233860-31	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 32	1'	H233860-32	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 33	1'	H233860-33	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 34	1'	H233860-34	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 35	1'	H233860-35	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 36	1'	H233860-36	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 37	1'	H233860-37	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 38	1'	H233860-38	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 39	1'	H233860-39	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 40	1'	H233860-40	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 41	1'	H233860-41	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 42	1'	H233860-42	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 43	1'	H233860-43	Soil	21-Jul-23 00:00	24-Jul-23 16:02
S - 44	1'	H233860-44	Soil	21-Jul-23 00:00	24-Jul-23 16:02
NSW - 1		H233860-45	Soil	21-Jul-23 00:00	24-Jul-23 16:02
WSW - 1		H233860-46	Soil	21-Jul-23 00:00	24-Jul-23 16:02
SSW - 1		H233860-47	Soil	21-Jul-23 00:00	24-Jul-23 16:02
WSW - 2		H233860-48	Soil	21-Jul-23 00:00	24-Jul-23 16:02
WSW - 3		H233860-49	Soil	21-Jul-23 00:00	24-Jul-23 16:02
SSW - 2		H233860-50	Soil	21-Jul-23 00:00	24-Jul-23 16:02
NSW - 3		H233860-51	Soil	21-Jul-23 00:00	24-Jul-23 16:02
NSW - 4		H233860-52	Soil	21-Jul-23 00:00	24-Jul-23 16:02
SSW - 3		H233860-53	Soil	21-Jul-23 00:00	24-Jul-23 16:02
SSW - 4		H233860-54	Soil	21-Jul-23 00:00	24-Jul-23 16:02
SSW - 8		H233860-55	Soil	21-Jul-23 00:00	24-Jul-23 16:02
WSW - 5		H233860-56	Soil	21-Jul-23 00:00	24-Jul-23 16:02
ESW - 4		H233860-57	Soil	21-Jul-23 00:00	24-Jul-23 16:02

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  
5002 CARRAIGE RD  
HOBBS NM, 88242Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:Reported:  
01-Aug-23 16:37

SSW - 5	H233860-58	Soil	21-Jul-23 00:00	24-Jul-23 16:02
SSW - 6	H233860-59	Soil	21-Jul-23 00:00	24-Jul-23 16:02
ESW - 1	H233860-60	Soil	21-Jul-23 00:00	24-Jul-23 16:02
NSW - 2	H233860-61	Soil	21-Jul-23 00:00	24-Jul-23 16:02
SSW - 7	H233860-62	Soil	21-Jul-23 00:00	24-Jul-23 16:02
ESW - 3	H233860-63	Soil	21-Jul-23 00:00	24-Jul-23 16:02
WSW - 6	H233860-64	Soil	21-Jul-23 00:00	24-Jul-23 16:02
WSW - 4	H233860-65	Soil	21-Jul-23 00:00	24-Jul-23 16:02
ESW - 2	H233860-66	Soil	21-Jul-23 00:00	24-Jul-23 16:02

08/01/23 - Client changed the sample IDs of -57 and -64 (see COC). This is the revised report and will replace the one sent on 07/31/23.

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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 1 1'**  
**H233860-01 (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>64.0</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3072636	MS	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	71.5-134	3072636	MS	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
DRO >C10-C28*	50.4	10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane	90.9 %	48.2-134	3072537	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane	104 %	49.1-148	3072537	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

S - 2 1'  
H233860-02 (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	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072636	MS	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3072636	MS	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
DRO >C10-C28*	40.1		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			86.8 %	48.2-134		3072537	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			97.9 %	49.1-148		3072537	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 3 1'**  
**H233860-03 (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>48.0</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072636	MS	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		3072636	MS	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>17.2</b>		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			93.2 %	48.2-134		3072537	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	49.1-148		3072537	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

S - 4 1'  
H233860-04 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072636	MS	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3072636	MS	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
DRO >C10-C28*	18.3		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			94.0 %	48.2-134		3072537	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		3072537	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 5 1'**  
**H233860-05 (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>64.0</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072636	MS	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3072636	MS	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>26.7</b>		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			95.1 %	48.2-134		3072537	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			107 %	49.1-148		3072537	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 6 1'**  
**H233860-06 (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>64.0</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072636	MS	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072636	MS	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3072636	MS	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11.2</b>		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072537	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			91.4 %	48.2-134		3072537	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	49.1-148		3072537	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

S - 7 1'  
H233860-07 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	15.8		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			84.6 %	48.2-134		3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			94.3 %	49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 8 1'**  
**H233860-08 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			89.1 %	48.2-134		3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			99.9 %	49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 9 1'**  
**H233860-09 (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>160</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3072705	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			74.8 %	48.2-134		3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			82.3 %	49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 10 1'**  
**H233860-10 (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>144</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3072705	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			76.6 %	48.2-134		3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			84.6 %	49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 11 2'**  
**H233860-11 (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>192</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			79.0 %	48.2-134		3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.7 %	49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 12 2'**  
**H233860-12 (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>208</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			83.7 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			92.1 %		49.1-148	3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 13 2'**  
**H233860-13 (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>272</b>		16.0	mg/kg	4	3072739	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3072705	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			72.7 %	48.2-134		3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			79.7 %	49.1-148		3072538	MS	27-Jul-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 14 2'**  
**H233860-14 (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>288</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		3072705	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>34.3</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			82.1 %	48.2-134		3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			90.5 %	49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 15 2'**  
**H233860-15 (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>320</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>33.8</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			77.6 %	48.2-134		3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			85.5 %	49.1-148		3072538	MS	27-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 16 2'**  
**H233860-16 (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>320</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<b>61.5</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<b>11.9</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			83.3 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			93.0 %		49.1-148	3072538	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 17 2'**  
**H233860-17 (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>288</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		71.5-134		3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<b>86.8</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<b>14.9</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		89.5 %		48.2-134		3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		98.9 %		49.1-148		3072538	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 18 3'**  
**H233860-18 (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>240</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>40.6</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			87.8 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			97.5 %		49.1-148	3072538	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 19 3'**  
**H233860-19 (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>256</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %		71.5-134		3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	77.7		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	14.5		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		80.0 %		48.2-134		3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		88.9 %		49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 20 3'**  
**H233860-20 (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>240</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>30.0</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			87.7 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.4 %		49.1-148	3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 21 3'**  
**H233860-21 (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>192</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>39.7</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			79.0 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			88.7 %		49.1-148	3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 22 1'**  
**H233860-22 (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>256</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>31.9</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			86.9 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			97.6 %		49.1-148	3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 23 1'**  
**H233860-23 (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>208</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15.3</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			79.9 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			89.1 %		49.1-148	3072538	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 24 1'**  
**H233860-24 (Soil)**

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

Chloride	160		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			88.7 %	48.2-134		3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.5 %	49.1-148		3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 25 1'**  
**H233860-25 (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>528</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3072705	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>18.3</b>		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			77.8 %	48.2-134		3072538	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			86.0 %	49.1-148		3072538	MS	27-Jul-23	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 26 1'**  
**H233860-26 (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>560</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072705	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072705	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3072705	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072538	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			70.7 %		48.2-134	3072538	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			77.6 %		49.1-148	3072538	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 27 1'**  
**H233860-27 (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>576</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<b>24.1</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<b>13.9</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	3072711	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 28 1'**  
**H233860-28 (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>560</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>22.5</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			91.2 %		48.2-134	3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.4 %		49.1-148	3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 29 1'**  
**H233860-29 (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>576</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>27.6</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			91.5 %		48.2-134	3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.9 %		49.1-148	3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 30 1'**  
**H233860-30 (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>576</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %		71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15.5</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		94.2 %		48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		100 %		49.1-148		3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 31 1'**  
**H233860-31 (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>768</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<b>27.4</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			87.4 %	48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			96.0 %	49.1-148		3072711	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 32 1'**  
**H233860-32 (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>752</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>26.4</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			90.9 %		48.2-134	3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			100 %		49.1-148	3072711	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 33 1'**  
**H233860-33 (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>688</b>		16.0	mg/kg	4	3072750	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>24.6</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		85.0 %		48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		93.0 %		49.1-148		3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 34 1'**  
**H233860-34 (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>720</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>22.8</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			90.9 %	48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			100 %	49.1-148		3072711	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 35 1'**  
**H233860-35 (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>752</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<b>52.8</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<b>14.9</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		92.8 %		48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		106 %		49.1-148		3072711	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 36 1'**  
**H233860-36 (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	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<b>32.1</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<b>11.4</b>		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		95.4 %		48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		107 %		49.1-148		3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 37 1'**  
**H233860-37 (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>624</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	29.5		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	10.8		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		89.6 %		48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		99.4 %		49.1-148		3072711	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 38 1'**  
**H233860-38 (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>1040</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 3072706 JH/ 29-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane 95.2 % 48.2-134 3072711 MS 27-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148 3072711 MS 27-Jul-23 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 39 1'**  
**H233860-39 (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>960</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		112 %		71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		96.4 %		48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		102 %		49.1-148		3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 40 1'**  
**H233860-40 (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>928</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		112 %		71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		94.7 %		48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		98.7 %		49.1-148		3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 41 1'**  
**H233860-41 (Soil)**

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

Chloride	720		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			98.7 %		48.2-134	3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			104 %		49.1-148	3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 42 1'**  
**H233860-42 (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>768</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134 3072706 JH/ 29-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane 93.8 % 48.2-134 3072711 MS 27-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148 3072711 MS 27-Jul-23 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 43 1'**  
**H233860-43 (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>896</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3072706	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			96.9 %	48.2-134		3072711	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1-148		3072711	MS	27-Jul-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**S - 44 1'**  
**H233860-44 (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>1330</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072711	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			98.9 %	48.2-134		3072711	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	49.1-148		3072711	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**NSW - 1**  
**H233860-45 (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>208</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 3072706 JH/ 29-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane 81.7 % 48.2-134 3072712 MS 27-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148 3072712 MS 27-Jul-23 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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**WSW - 1**  
**H233860-46 (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>64.0</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072706	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072706	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3072706	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<b>14.1</b>		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			81.1 %	48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			93.8 %	49.1-148		3072712	MS	27-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 1**  
**H233860-47 (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>80.0</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		114 %		71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		83.3 %		48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		95.2 %		49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**WSW - 2**  
**H233860-48 (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>64.0</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		114 %		71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		82.4 %		48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		95.2 %		49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**WSW - 3**  
**H233860-49 (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>80.0</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			85.6 %		48.2-134	3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.7 %		49.1-148	3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 2**  
**H233860-50 (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>32.0</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %		71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		88.8 %		48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		101 %		49.1-148		3072712	MS	27-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**NSW - 3**  
**H233860-51 (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	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			87.1 %	48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			99.9 %	49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**NSW - 4**  
**H233860-52 (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	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 3072707 JH/ 29-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane 100 % 48.2-134 3072712 MS 27-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 115 % 49.1-148 3072712 MS 27-Jul-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 3**  
**H233860-53 (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>48.0</b>		16.0	mg/kg	4	3072751	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		114 %		71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10.0</b>		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		102 %		48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		117 %		49.1-148		3072712	MS	27-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 4****H233860-54 (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	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	12.7		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			95.0 %	48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		3072712	MS	27-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 8****H233860-55 (Soil)**

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

Chloride	176		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			112 %	48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			127 %	49.1-148		3072712	MS	27-Jul-23	8015B	
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**WSW - 5**  
**H233860-56 (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>48.0</b>		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			123 %	49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**ESW - 4**  
**H233860-57 (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	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			109 %		48.2-134	3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			125 %		49.1-148	3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 5**  
**H233860-58 (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>64.0</b>		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11.3</b>		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane		92.2 %		48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		108 %		49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 6**  
**H233860-59 (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>48.0</b>		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3072707	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			105 %	48.2-134		3072712	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			122 %	49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**ESW - 1**  
**H233860-60 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 3072707 JH/ 29-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane 99.4 % 48.2-134 3072712 MS 27-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 114 % 49.1-148 3072712 MS 27-Jul-23 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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**NSW - 2**  
**H233860-61 (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>64.0</b>		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3072707	JH/	29-Jul-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctane			99.6 %	48.2-134		3072712	MS	27-Jul-23	8015B	
Surrogate: 1-Chlorooctadecane			114 %	49.1-148		3072712	MS	27-Jul-23	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**SSW - 7****H233860-62 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 3072707 JH/ 29-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane 107 % 48.2-134 3072712 MS 27-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 123 % 49.1-148 3072712 MS 27-Jul-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**ESW - 3**  
**H233860-63 (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	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			102 %	48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			118 %	49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**WSW - 6**  
**H233860-64 (Soil)**

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

Chloride	176		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072712	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			106 %	48.2-134		3072712	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			121 %	49.1-148		3072712	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**WSW - 4**  
**H233860-65 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072713	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072713	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072713	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			110 %	48.2-134		3072713	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			126 %	49.1-148		3072713	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**ESW - 2**  
**H233860-66 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3072745	AC	27-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072707	JH/	29-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072707	JH/	29-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3072707	JH/	29-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072713	MS	27-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072713	MS	27-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072713	MS	27-Jul-23	8015B	

Surrogate: 1-Chlorooctane			112 %	48.2-134		3072713	MS	27-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			127 %	49.1-148		3072713	MS	27-Jul-23	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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072739 - 1:4 DI Water****Blank (3072739-BLK1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	ND	16.0	mg/kg						
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**LCS (3072739-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	432	16.0	mg/kg	400	108	80-120			
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**LCS Dup (3072739-BSD1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	
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**Batch 3072745 - 1:4 DI Water****Blank (3072745-BLK1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	ND	16.0	mg/kg						
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**LCS (3072745-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (3072745-BSD1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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**Batch 3072750 - 1:4 DI Water****Blank (3072750-BLK1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	ND	16.0	mg/kg						
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**LCS (3072750-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	416	16.0	mg/kg	400	104	80-120			
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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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**Inorganic Compounds - 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 3072750 - 1:4 DI Water****LCS Dup (3072750-BSD1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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**Batch 3072751 - 1:4 DI Water****Blank (3072751-BLK1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	ND	16.0	mg/kg							
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**LCS (3072751-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	416	16.0	mg/kg	400		104	80-120			
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**LCS Dup (3072751-BSD1)**

Prepared &amp; Analyzed: 27-Jul-23

Chloride	448	16.0	mg/kg	400		112	80-120	7.41	20	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072636 - Volatiles****Blank (3072636-BLK1)**

Prepared: 26-Jul-23 Analyzed: 29-Jul-23

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)	0.0506		mg/kg	0.0500		101	71.5-134			

**LCS (3072636-BS1)**

Prepared: 26-Jul-23 Analyzed: 29-Jul-23

Benzene	2.13	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.06	0.050	mg/kg	2.00		103	86-128			
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128			
m,p-Xylene	4.05	0.100	mg/kg	4.00		101	89-129			
o-Xylene	2.00	0.050	mg/kg	2.00		100	86.1-125			
Total Xylenes	6.06	0.150	mg/kg	6.00		101	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0483		mg/kg	0.0500		96.7	71.5-134			

**LCS Dup (3072636-BS1)**

Prepared: 26-Jul-23 Analyzed: 29-Jul-23

Benzene	2.09	0.050	mg/kg	2.00		104	82.8-130	1.73	15.8	
Toluene	2.05	0.050	mg/kg	2.00		102	86-128	0.695	15.9	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	85.9-128	0.979	16	
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89-129	0.988	16.2	
o-Xylene	1.97	0.050	mg/kg	2.00		98.5	86.1-125	1.70	16.7	
Total Xylenes	5.98	0.150	mg/kg	6.00		99.7	88.2-128	1.22	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	71.5-134			

**Batch 3072705 - Volatiles****Blank (3072705-BLK1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

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  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072705 - Volatiles****Blank (3072705-BLK1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0551		mg/kg	0.0500		110	71.5-134			

**LCS (3072705-BS1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130			
Toluene	1.90	0.050	mg/kg	2.00		95.2	86-128			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.2	85.9-128			
m,p-Xylene	3.94	0.100	mg/kg	4.00		98.4	89-129			
o-Xylene	1.92	0.050	mg/kg	2.00		96.2	86.1-125			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.7	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	71.5-134			

**LCS Dup (3072705-BS1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

Benzene	1.98	0.050	mg/kg	2.00		98.8	82.8-130	1.43	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.0	86-128	0.810	15.9	
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.2	85.9-128	0.00696	16	
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.7	89-129	0.736	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.7	86.1-125	0.474	16.7	
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	88.2-128	0.650	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	71.5-134			

**Batch 3072706 - Volatiles****Blank (3072706-BLK1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

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)	0.0566		mg/kg	0.0500		113	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072706 - Volatiles****LCS (3072706-BS1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

Benzene	1.96	0.050	mg/kg	2.00		98.1	82.8-130		
Toluene	1.91	0.050	mg/kg	2.00		95.3	86-128		
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128		
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.4	89-129		
o-Xylene	1.87	0.050	mg/kg	2.00		93.7	86.1-125		
Total Xylenes	5.77	0.150	mg/kg	6.00		96.2	88.2-128		

Surrogate: 4-Bromofluorobenzene (PID)

0.0509

mg/kg

0.0500

102

71.5-134

**LCS Dup (3072706-BS1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

Benzene	1.95	0.050	mg/kg	2.00		97.6	82.8-130	0.485	15.8
Toluene	1.86	0.050	mg/kg	2.00		92.8	86-128	2.75	15.9
Ethylbenzene	1.92	0.050	mg/kg	2.00		96.2	85.9-128	2.40	16
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.8	89-129	0.676	16.2
o-Xylene	1.91	0.050	mg/kg	2.00		95.5	86.1-125	1.91	16.7
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	88.2-128	0.172	16.3

Surrogate: 4-Bromofluorobenzene (PID)

0.0516

mg/kg

0.0500

103

71.5-134

**Batch 3072707 - Volatiles****Blank (3072707-BLK1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

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)

0.0553

mg/kg

0.0500

111

71.5-134

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072707 - Volatiles****LCS (3072707-BS1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

Benzene	1.99	0.050	mg/kg	2.00		99.7	82.8-130		
Toluene	1.91	0.050	mg/kg	2.00		95.3	86-128		
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.3	85.9-128		
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.7	89-129		
o-Xylene	1.91	0.050	mg/kg	2.00		95.7	86.1-125		
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	88.2-128		
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	71.5-134		

**LCS Dup (3072707-BSD1)**

Prepared: 27-Jul-23 Analyzed: 29-Jul-23

Benzene	1.98	0.050	mg/kg	2.00		98.9	82.8-130	0.831	15.8
Toluene	1.92	0.050	mg/kg	2.00		96.0	86-128	0.655	15.9
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.9	85.9-128	0.608	16
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.8	89-129	0.103	16.2
o-Xylene	1.91	0.050	mg/kg	2.00		95.4	86.1-125	0.288	16.7
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	88.2-128	0.0251	16.3
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	71.5-134		

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072537 - General Prep - Organics****Blank (3072537-BLK1)**

Prepared: 25-Jul-23 Analyzed: 27-Jul-23

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	42.7		mg/kg	50.0		85.4	48.2-134			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.4	49.1-148			

**LCS (3072537-BS1)**

Prepared: 25-Jul-23 Analyzed: 27-Jul-23

GRO C6-C10	198	10.0	mg/kg	200		99.0	66.4-123			
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118			
Total TPH C6-C28	401	10.0	mg/kg	400		100	77.6-123			
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.2	48.2-134			
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	49.1-148			

**LCS Dup (3072537-BS1)**

Prepared: 25-Jul-23 Analyzed: 27-Jul-23

GRO C6-C10	187	10.0	mg/kg	200		93.6	66.4-123	5.59	17.7	
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118	0.469	21	
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	77.6-123	2.48	18.5	
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	49.1-148			

**Batch 3072538 - General Prep - Organics****Blank (3072538-BLK1)**

Prepared: 25-Jul-23 Analyzed: 27-Jul-23

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	41.6		mg/kg	50.0		83.3	48.2-134			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.7	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072538 - General Prep - Organics****LCS (3072538-BS1)**

Prepared: 25-Jul-23 Analyzed: 27-Jul-23

GRO C6-C10	201	10.0	mg/kg	200		101	66.4-123			
DRO >C10-C28	210	10.0	mg/kg	200		105	66.5-118			
Total TPH C6-C28	412	10.0	mg/kg	400		103	77.6-123			
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	48.2-134			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	49.1-148			

**LCS Dup (3072538-BS1)**

Prepared: 25-Jul-23 Analyzed: 27-Jul-23

GRO C6-C10	202	10.0	mg/kg	200		101	66.4-123	0.274	17.7	
DRO >C10-C28	213	10.0	mg/kg	200		106	66.5-118	1.09	21	
Total TPH C6-C28	415	10.0	mg/kg	400		104	77.6-123	0.692	18.5	
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	49.1-148			

**Batch 3072711 - General Prep - Organics****Blank (3072711-BLK1)**

Prepared &amp; Analyzed: 27-Jul-23

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	43.6		mg/kg	50.0		87.1	48.2-134			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.9	49.1-148			

**LCS (3072711-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

GRO C6-C10	193	10.0	mg/kg	200		96.7	66.4-123			
DRO >C10-C28	195	10.0	mg/kg	200		97.4	66.5-118			
Total TPH C6-C28	388	10.0	mg/kg	400		97.0	77.6-123			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	48.2-134			
Surrogate: 1-Chlorooctadecane	56.9		mg/kg	50.0		114	49.1-148			

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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072711 - General Prep - Organics****LCS Dup (3072711-BSD1)**

Prepared &amp; Analyzed: 27-Jul-23

GRO C6-C10	188	10.0	mg/kg	200		94.0	66.4-123	2.79	17.7	
DRO >C10-C28	189	10.0	mg/kg	200		94.5	66.5-118	2.94	21	
Total TPH C6-C28	377	10.0	mg/kg	400		94.3	77.6-123	2.86	18.5	
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	63.1		mg/kg	50.0		126	49.1-148			

**Batch 3072712 - General Prep - Organics****Blank (3072712-BLK1)**

Prepared &amp; Analyzed: 27-Jul-23

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	45.4		mg/kg	50.0		90.8	48.2-134			
Surrogate: 1-Chlorooctadecane	53.4		mg/kg	50.0		107	49.1-148			

**LCS (3072712-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

GRO C6-C10	195	10.0	mg/kg	200		97.7	66.4-123			
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118			
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	77.6-123			
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.2	48.2-134			
Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0		120	49.1-148			

**LCS Dup (3072712-BSD1)**

Prepared &amp; Analyzed: 27-Jul-23

GRO C6-C10	193	10.0	mg/kg	200		96.7	66.4-123	1.06	17.7	
DRO >C10-C28	196	10.0	mg/kg	200		98.2	66.5-118	2.67	21	
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	77.6-123	1.87	18.5	
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	62.9		mg/kg	50.0		126	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

PARAGON ENVIROMENTAL  
5002 CARRAIGE RD  
HOBBS NM, 88242

Project: PINTAIL REUSE PIT # 2  
Project Number: C-1  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
01-Aug-23 16:37

**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 3072713 - General Prep - Organics****Blank (3072713-BLK1)**

Prepared &amp; Analyzed: 27-Jul-23

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	51.6		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0		120	49.1-148			

**LCS (3072713-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

GRO C6-C10	194	10.0	mg/kg	200		97.1	66.4-123			
DRO >C10-C28	211	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	406	10.0	mg/kg	400		101	77.6-123			
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	59.5		mg/kg	50.0		119	49.1-148			

**LCS Dup (3072713-BS1)**

Prepared &amp; Analyzed: 27-Jul-23

GRO C6-C10	190	10.0	mg/kg	200		95.2	66.4-123	2.01	17.7	
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118	4.17	21	
Total TPH C6-C28	393	10.0	mg/kg	400		98.3	77.6-123	3.13	18.5	
Surrogate: 1-Chlorooctane	59.0		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	69.8		mg/kg	50.0		140	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager

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**Notes and Definitions**

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

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

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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				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																	
Project Manager: Chris Jones				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>Chlorides</p> <p>TPH</p> <p>BTEX</p> </div> <div style="width: 60%;"></div> </div>																																	
Address: 1601 N. Turner St., Ste 500				Company: <i>Solaris</i>																																					
City: Hobbs State: NM Zip: 88240				Attn:																																					
Phone #: 575-964-7814 Fax #:				Address:																																					
Project #: Project Owner: <i>Solaris</i>				City:																																					
Project Name: <i>Pinto's Reserve Pit #2</i>				State: Zip:																																					
Project Location: <i>C-1</i>				Phone #:																																					
Sampler Name: <i>Angelo Pena</i>				Fax #:																																					
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS														MATRIX		PRESERV.		SAMPLING																	
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
<i>H233860</i>				<i>1</i>																																					
<i>2</i>		<i>5-1 1'</i>		<i>1</i>																																					
<i>3</i>		<i>5-2 1'</i>		<i>1</i>																																					
<i>4</i>		<i>5-3 1'</i>		<i>1</i>																																					
<i>5</i>		<i>5-4 1'</i>		<i>1</i>																																					
<i>6</i>		<i>5-5 1'</i>		<i>1</i>																																					
<i>7</i>		<i>5-6 1'</i>		<i>1</i>																																					
<i>8</i>		<i>5-7 1'</i>		<i>1</i>																																					
<i>9</i>		<i>5-8 1'</i>		<i>1</i>																																					
<i>10</i>		<i>5-9 1'</i>		<i>1</i>																																					
		<i>5-10 1'</i>		<i>1</i>																																					

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Relinquished By: <i>[Signature]</i>		Date: <i>7-24-23</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: <i>[Signature]</i>		Time: <i>1402</i>		Received By: <i>[Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
Relinquished By:		Time:		Received By:					
Delivered By: (Circle One)		#140		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: <i>1.8e</i>				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		<i>[Signature]</i>			
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

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





# 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: Chris Jones				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TTH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>																	
Address: 1601 N. Turner St., Ste 500				Company: Solaris																					
City: Hobbs State: NM Zip: 88240				Attn:																					
Phone #: 575-964-7814 Fax #:				Address:																					
Project #: Project Owner:				City:																					
Project Name: Pintai Revs P: + #2				State: Zip:																					
Project Location: F-1				Phone #:																					
Sampler Name: Angel O. Pena				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
H233860												7-21													
11	5-11	2'																							
12	5-12	2'																							
13	5-13	2'																							
14	5-14	2'																							
15	5-15	2'																							
16	5-16	2'																							
17	5-17	2'																							
18	5-18	3'																							
19	5-19	3'																							
20	5-20	3'																							

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Relinquished By:	Date: 7-24-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1602		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 1.8c		Cool Intact	vo.	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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



# 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: Chris Jones				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>PH</p> <p>BTEX</p> <p>Chlorides</p> </div> </div>																		
Address: 1601 N. Turner St., Ste 500				Company: <i>Solaris</i>																						
City: Hobbs State: NM Zip: 88240				Attn:																						
Phone #: 575-964-7814 Fax #:				Address:																						
Project #: Project Owner:				City:																						
Project Name: <i>Pintail Reuse P: #2</i>				State: Zip:																						
Project Location: <i>C-1</i>				Phone #:																						
Sampler Name: <i>Angel O. Pena</i>				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME												
<i>H233860</i>																										
<i>21</i>	<i>5-21 3'</i>												<i>7-21</i>													
<i>22</i>	<i>5-22 1'</i>																									
<i>23</i>	<i>5-23 1'</i>																									
<i>24</i>	<i>5-24 1'</i>																									
<i>25</i>	<i>5-25 1'</i>																									
<i>26</i>	<i>5-26 1'</i>																									
<i>27</i>	<i>5-27 1'</i>																									
<i>28</i>	<i>5-28 1'</i>																									
<i>29</i>	<i>5-29 1'</i>																									
<i>30</i>	<i>5-30 1'</i>																									

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Relinquished By: <i>Angel O. Pena</i>	Date: <i>7-24-23</i>	Received By: <i>Monica Alda</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <i>1602</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Relinquished By:	Time:	Received By:		
Delivered By: (Circle One)	<i>#140</i>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	<i>1.8c</i>	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	<i>V.O.</i>	

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





# 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: Chris Jones				P.O. #:																						
Address: 1601 N. Turner St., Ste 500				Company: <i>Solaris</i>																						
City: Hobbs State: NM Zip: 88240				Attn:																						
Phone #: 575-964-7814 Fax #:				Address:																						
Project #: Project Owner: <i>Solaris</i>				City:																						
Project Name: <i>Pintail Reservoir #2</i>				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: <i>Angel O. Peña</i>				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<i>H233860</i>											<input checked="" type="checkbox"/>															
<i>31</i>	<i>5-31 1'</i>	<i>C</i>											<i>7-21</i>													
<i>32</i>	<i>5-32 1'</i>																									
<i>33</i>	<i>5-33 1'</i>																									
<i>34</i>	<i>5-34 1'</i>																									
<i>35</i>	<i>5-35 1'</i>																									
<i>36</i>	<i>5-36 1'</i>																									
<i>37</i>	<i>5-37 1'</i>																									
<i>38</i>	<i>5-38 1'</i>																									
<i>39</i>	<i>5-39 1'</i>																									
<i>40</i>	<i>5-40 1'</i>																									

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Relinquished By: <i>[Signature]</i>	Date: <i>7-24-23</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>1602</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	<i>#140</i>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <i>1.8c</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Initials]</i>	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> No <input type="checkbox"/> No		

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



# CARDINAL

## Laboratories

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: Chris Jones				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Inorganics</div> </div>																		
Address: 1601 N. Turner St., Ste 500				Company: <i>Solaris</i>																						
City: Hobbs State: NM Zip: 88240				Attn:																						
Phone #: 575-964-7814 Fax #:				Address:																						
Project #: Project Owner: <i>Solaris</i>				City:																						
Project Name: <i>Pitfall Revise Pit #2</i>				State: Zip:																						
Project Location: <i>C-1</i>				Phone #:																						
Sampler Name: <i>Am/0 Pens</i>				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME												
<i>H233860</i>											<input checked="" type="checkbox"/>															
<i>41</i>	<i>5-41 1'</i>	<i>1</i>											<i>7-21</i>													
<i>42</i>	<i>5-42 1'</i>	<i>1</i>																								
<i>43</i>	<i>5-43 1'</i>	<i>1</i>																								
<i>44</i>	<i>5-44 1'</i>	<i>1</i>																								
<i>45</i>	<i>NSW-1</i>																									
<i>46</i>	<i>WSW-1</i>																									
<i>47</i>	<i>SSW-1</i>																									
<i>48</i>	<i>WSW-2</i>																									
<i>49</i>	<i>WSW-3</i>																									
<i>50</i>	<i>SSW-2</i>																									

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Relinquished By: <i>[Signature]</i>	Date: <i>7-24-23</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>1:02</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	<i>#140</i>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	<i>1.8c</i>	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	<i>T.O.</i>	

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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				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: Chris Jones				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>																		
Address: 1601 N. Turner St., Ste 500				Company: <i>Solaris</i>																						
City: Hobbs State: NM Zip: 88240				Attn:																						
Phone #: 575-964-7814 Fax #:				Address:																						
Project #: Project Owner: <i>Solaris</i>				City:																						
Project Name: <i>Pintaj Revs P. #2</i>				State: Zip:																						
Project Location: <i>C-1</i>				Phone #:																						
Sampler Name: <i>Angel O. Rocio</i>				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME												
<i>H233860</i>											<input checked="" type="checkbox"/>		<i>7-21</i>													
<i>51</i>	<i>NSW-3</i>																									
<i>52</i>	<i>NSW-4</i>																									
<i>53</i>	<i>SSW 3</i>																									
<i>54</i>	<i>SSW 4</i>																									
<i>55</i>	<i>SSW-8</i>																									
<i>56</i>	<i>NSW 5</i>																									
<i>57</i>	<i>ESW 3 ESW4**</i>																									
<i>58</i>	<i>SSW 5</i>																									
<i>59</i>	<i>SSW 6</i>																									
<i>60</i>	<i>ESW 1</i>																									

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Relinquished By: <i>[Signature]</i>	Date: <i>7-24-23</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>1602</i>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>** Chris changed sample ID. Chg 8/1/23</i>	
Time:				
Delivered By: (Circle One)	<i>#140</i>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	<i>18c</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>P.O.</i>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

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



# 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: Chris Jones		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>																
Address: 1601 N. Turner St., Ste 500		Company: <i>Solaris</i>																		
City: Hobbs State: NM Zip: 88240		Attn:																		
Phone #: 575-964-7814 Fax #:		Address:																		
Project #: Project Owner: <i>Solaris</i>		City:																		
Project Name: <i>Pintail Rev &amp; P#2</i>		State: Zip:																		
Project Location: <i>C-1</i>		Phone #:																		
Sampler Name: <i>Joe Penz</i>		Fax #:																		
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME						
<i>H233860</i>													<i>7-21</i>							
<i>61 NSW-2</i>																				
<i>62 SSW-7</i>																				
<i>63 SSW-3</i>																				
<i>64 <del>NSW-3</del> * WSW-6</i>																				
<i>65 WSW-4 **</i>																				
<i>66 ESW-2</i>																				

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Relinquished By: <i>[Signature]</i>	Date: <i>7-24-23</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Time: <i>1402</i>	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition	REMARKS:
Sampler - UPS - Bus - Other: <i>1.8c</i>	Time:	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	<i>* TT Angel told to correct Sample ID to match Jar.</i> <i>** Chris changed Sample ID. Ch 7/24/23</i> <i>8/1/23</i>
CHECKED BY: (Initials) <i>Y.O.</i>			

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



## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-31 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-001

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	18	10		mg/Kg	1	8/8/2023 4:19:54 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2023 4:19:54 PM
Surr: DNOP	116	69-147		%Rec	1	8/8/2023 4:19:54 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/8/2023 7:44:00 PM
Surr: BFB	100	15-244		%Rec	1	8/8/2023 7:44:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.023		mg/Kg	1	8/8/2023 7:44:00 PM
Toluene	ND	0.046		mg/Kg	1	8/8/2023 7:44:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	8/8/2023 7:44:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	8/8/2023 7:44:00 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	8/8/2023 7:44:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>RBC</b>
Chloride	110	60		mg/Kg	20	8/9/2023 11:40:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-32 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-002

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	25	10		mg/Kg	1	8/8/2023 4:30:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2023 4:30:38 PM
Surr: DNOP	120	69-147		%Rec	1	8/8/2023 4:30:38 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/8/2023 8:27:00 PM
Surr: BFB	98.7	15-244		%Rec	1	8/8/2023 8:27:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.023		mg/Kg	1	8/8/2023 8:27:00 PM
Toluene	ND	0.046		mg/Kg	1	8/8/2023 8:27:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	8/8/2023 8:27:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	8/8/2023 8:27:00 PM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	8/8/2023 8:27:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>RBC</b>
Chloride	170	60		mg/Kg	20	8/9/2023 11:53:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-33 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-003

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	8/8/2023 4:51:53 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	8/8/2023 4:51:53 PM
Surr: DNOP	116	69-147		%Rec	1	8/8/2023 4:51:53 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/8/2023 8:49:00 PM
Surr: BFB	99.5	15-244		%Rec	1	8/8/2023 8:49:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	8/8/2023 8:49:00 PM
Toluene	ND	0.048		mg/Kg	1	8/8/2023 8:49:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/8/2023 8:49:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/8/2023 8:49:00 PM
Surr: 4-Bromofluorobenzene	94.3	39.1-146		%Rec	1	8/8/2023 8:49:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>RBC</b>
Chloride	440	60		mg/Kg	20	8/10/2023 12:05:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-34 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-004

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	8/9/2023 11:07:53 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/9/2023 11:07:53 AM
Surr: DNOP	133	69-147		%Rec	1	8/9/2023 11:07:53 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/8/2023 9:11:00 PM
Surr: BFB	105	15-244		%Rec	1	8/8/2023 9:11:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.025		mg/Kg	1	8/8/2023 9:11:00 PM
Toluene	ND	0.050		mg/Kg	1	8/8/2023 9:11:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/8/2023 9:11:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/8/2023 9:11:00 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	8/8/2023 9:11:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>RBC</b>
Chloride	710	60		mg/Kg	20	8/10/2023 12:18:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-35 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-005

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	10	9.6		mg/Kg	1	8/9/2023 11:31:43 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/9/2023 11:31:43 AM
Surr: DNOP	115	69-147		%Rec	1	8/9/2023 11:31:43 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/8/2023 9:32:00 PM
Surr: BFB	98.2	15-244		%Rec	1	8/8/2023 9:32:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	8/8/2023 9:32:00 PM
Toluene	ND	0.048		mg/Kg	1	8/8/2023 9:32:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/8/2023 9:32:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/8/2023 9:32:00 PM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	8/8/2023 9:32:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	110	60		mg/Kg	20	8/9/2023 2:54:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-36 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-006

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	54	9.6		mg/Kg	1	8/8/2023 5:23:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2023 5:23:58 PM
Surr: DNOP	138	69-147		%Rec	1	8/8/2023 5:23:58 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/8/2023 9:54:00 PM
Surr: BFB	99.7	15-244		%Rec	1	8/8/2023 9:54:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.023		mg/Kg	1	8/8/2023 9:54:00 PM
Toluene	ND	0.047		mg/Kg	1	8/8/2023 9:54:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/8/2023 9:54:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	8/8/2023 9:54:00 PM
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	8/8/2023 9:54:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	570	60		mg/Kg	20	8/9/2023 3:06:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-37 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-007

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/8/2023 5:34:37 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/8/2023 5:34:37 PM
Surr: DNOP	113	69-147		%Rec	1	8/8/2023 5:34:37 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/8/2023 10:38:00 PM
Surr: BFB	104	15-244		%Rec	1	8/8/2023 10:38:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	8/8/2023 10:38:00 PM
Toluene	ND	0.047		mg/Kg	1	8/8/2023 10:38:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/8/2023 10:38:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	8/8/2023 10:38:00 PM
Surr: 4-Bromofluorobenzene	93.9	39.1-146		%Rec	1	8/8/2023 10:38:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	310	60		mg/Kg	20	8/9/2023 3:43:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-38 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-008

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	13	9.3		mg/Kg	1	8/8/2023 5:45:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/8/2023 5:45:19 PM
Surr: DNOP	132	69-147		%Rec	1	8/8/2023 5:45:19 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/8/2023 10:59:00 PM
Surr: BFB	97.6	15-244		%Rec	1	8/8/2023 10:59:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.025		mg/Kg	1	8/8/2023 10:59:00 PM
Toluene	ND	0.049		mg/Kg	1	8/8/2023 10:59:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/8/2023 10:59:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	8/8/2023 10:59:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	8/8/2023 10:59:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	180	60		mg/Kg	20	8/9/2023 3:56:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-39 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-009

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	15	9.5		mg/Kg	1	8/8/2023 5:56:05 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2023 5:56:05 PM
Surr: DNOP	105	69-147		%Rec	1	8/8/2023 5:56:05 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/8/2023 11:21:00 PM
Surr: BFB	99.8	15-244		%Rec	1	8/8/2023 11:21:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.023		mg/Kg	1	8/8/2023 11:21:00 PM
Toluene	ND	0.046		mg/Kg	1	8/8/2023 11:21:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	8/8/2023 11:21:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	8/8/2023 11:21:00 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	8/8/2023 11:21:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	100	60		mg/Kg	20	8/9/2023 4:08:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-40 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-010

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	8/9/2023 11:55:35 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/9/2023 11:55:35 AM
Surr: DNOP	122	69-147		%Rec	1	8/9/2023 11:55:35 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/8/2023 11:43:00 PM
Surr: BFB	103	15-244		%Rec	1	8/8/2023 11:43:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	8/8/2023 11:43:00 PM
Toluene	ND	0.048		mg/Kg	1	8/8/2023 11:43:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/8/2023 11:43:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	8/8/2023 11:43:00 PM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	8/8/2023 11:43:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	540	61		mg/Kg	20	8/9/2023 4:20:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-41 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-011

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/8/2023 6:17:40 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2023 6:17:40 PM
Surr: DNOP	97.9	69-147		%Rec	1	8/8/2023 6:17:40 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2023 12:05:00 AM
Surr: BFB	100	15-244		%Rec	1	8/9/2023 12:05:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	8/9/2023 12:05:00 AM
Toluene	ND	0.048		mg/Kg	1	8/9/2023 12:05:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2023 12:05:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	8/9/2023 12:05:00 AM
Surr: 4-Bromofluorobenzene	91.3	39.1-146		%Rec	1	8/9/2023 12:05:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	360	60		mg/Kg	20	8/9/2023 4:57:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-42 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-012

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/8/2023 6:28:30 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2023 6:28:30 PM
Surr: DNOP	99.6	69-147		%Rec	1	8/8/2023 6:28:30 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/9/2023 12:26:00 AM
Surr: BFB	97.1	15-244		%Rec	1	8/9/2023 12:26:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.023		mg/Kg	1	8/9/2023 12:26:00 AM
Toluene	ND	0.046		mg/Kg	1	8/9/2023 12:26:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2023 12:26:00 AM
Xylenes, Total	ND	0.091		mg/Kg	1	8/9/2023 12:26:00 AM
Surr: 4-Bromofluorobenzene	92.0	39.1-146		%Rec	1	8/9/2023 12:26:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	320	60		mg/Kg	20	8/9/2023 5:10:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-43 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-013

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	32	9.4		mg/Kg	1	8/8/2023 6:39:21 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/8/2023 6:39:21 PM
Surr: DNOP	129	69-147		%Rec	1	8/8/2023 6:39:21 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2023 12:48:00 AM
Surr: BFB	101	15-244		%Rec	1	8/9/2023 12:48:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.025		mg/Kg	1	8/9/2023 12:48:00 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2023 12:48:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2023 12:48:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2023 12:48:00 AM
Surr: 4-Bromofluorobenzene	92.3	39.1-146		%Rec	1	8/9/2023 12:48:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	110	60		mg/Kg	20	8/9/2023 5:22:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2308334

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-44 2'

Project: Pintail Reuse Pit 2

Collection Date: 8/4/2023

Lab ID: 2308334-014

Matrix: SOIL

Received Date: 8/5/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	20	9.8		mg/Kg	1	8/8/2023 6:50:11 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/8/2023 6:50:11 PM
Surr: DNOP	132	69-147		%Rec	1	8/8/2023 6:50:11 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2023 1:10:00 AM
Surr: BFB	96.9	15-244		%Rec	1	8/9/2023 1:10:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>KMN</b>
Benzene	ND	0.024		mg/Kg	1	8/9/2023 1:10:00 AM
Toluene	ND	0.049		mg/Kg	1	8/9/2023 1:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2023 1:10:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2023 1:10:00 AM
Surr: 4-Bromofluorobenzene	91.8	39.1-146		%Rec	1	8/9/2023 1:10:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SNS</b>
Chloride	720	60		mg/Kg	20	8/9/2023 5:34:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

## Analytical Report

Lab Order 2308A85

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-34 2.5'

Project: Pintail Reuse Pit 2

Collection Date: 8/17/2023

Lab ID: 2308A85-001

Matrix: SOIL

Received Date: 8/19/2023 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	8/28/2023 3:38:00 PM
Motor Oil Range Organics (MRO)	77	49		mg/Kg	1	8/28/2023 3:38:00 PM
Surr: DNOP	92.6	69-147		%Rec	1	8/28/2023 3:38:00 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/22/2023 4:02:22 PM
Surr: BFB	99.2	15-244		%Rec	1	8/22/2023 4:02:22 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>JJP</b>
Benzene	ND	0.023		mg/Kg	1	8/22/2023 4:02:22 PM
Toluene	ND	0.047		mg/Kg	1	8/22/2023 4:02:22 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/22/2023 4:02:22 PM
Xylenes, Total	ND	0.093		mg/Kg	1	8/22/2023 4:02:22 PM
Surr: 4-Bromofluorobenzene	113	39.1-146		%Rec	1	8/22/2023 4:02:22 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>RBC</b>
Chloride	ND	60		mg/Kg	20	8/23/2023 10:32:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

## Analytical Report

Lab Order 2308A85

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Paragon Environmental

Client Sample ID: S-44 2.5'

Project: Pintail Reuse Pit 2

Collection Date: 8/17/2023

Lab ID: 2308A85-002

Matrix: SOIL

Received Date: 8/19/2023 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: PRD
Diesel Range Organics (DRO)	75	9.4		mg/Kg	1	8/25/2023 10:48:45 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/25/2023 10:48:45 AM
Surr: DNOP	72.2	69-147		%Rec	1	8/25/2023 10:48:45 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/22/2023 4:26:02 PM
Surr: BFB	103	15-244		%Rec	1	8/22/2023 4:26:02 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	8/22/2023 4:26:02 PM
Toluene	ND	0.047		mg/Kg	1	8/22/2023 4:26:02 PM
Ethylbenzene	ND	0.047		mg/Kg	1	8/22/2023 4:26:02 PM
Xylenes, Total	ND	0.094		mg/Kg	1	8/22/2023 4:26:02 PM
Surr: 4-Bromofluorobenzene	114	39.1-146		%Rec	1	8/22/2023 4:26:02 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SNS
Chloride	ND	60		mg/Kg	20	8/24/2023 3:48:16 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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

CONDITIONS  
  
Action 275811

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 275811
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/2/2024