

SITE REMEDIATION AND CLOSURE REPORT

REPORTABLE RELEASE

Aris Water Midstream

Pintail Water Reuse

GPS: Latitude 32.06124 Longitude -103.67602

Lea County, NM

Incident ID No. NAPP2135543093

Prepared by:



Paragon Environmental LLC

225 Billy Walker Rd

Hobbs, NM 88240

903-522-0833

General Site and Incident Information

This report was prepared by Paragon Environmental LLC (Paragon) in response to the release for Aris Water Midstream (Aris) at the **Pintail Water Reuse (Pintail)**.

Site Coordinates: Latitude: 32.06124 Longitude: -103.67602

Unit UL G, Section 09, Township 26S, Range 32E

Incident ID: NAPP2135543093

Depth to Groundwater: According to the New Mexico State of Engineers Office, the nearest water data is greater than the ½ mile away, and being such, we followed the cleanup as if the depth to groundwater was ≤50 feet. See Appendix A for details.

Soil Survey: Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of the High Plains region (middle to lower Pleistocene), Including scattered lacustrine, playa, and alluvial deposits of the Tahoka, Double Tanks, Tule, Blackwater Draw, and Gatuna Formations, the latter of which may be Pliocene at base; outcrops, however, are basically of Quaternary deposits (Qoa). According to the United States Department of Agriculture Natural Resources Conservation Service soil survey, the soil in this area is comprised of Pyote soils and Duneland, 0 to 3 percent slopes. The drainage courses in this area are well-drained. There is no high potential for karst geology present in the area of the Pintail (Appendix B).

Release Description

Cause: Equipment failure on the water tank resulted in a release of approximately 21 barrels (bbls) of produced water. The equipment was isolated while repairs were made and put back in service. A vacuum truck was dispatched to aid in the recovery of the fluids.

Date of Spill: 12/20/2021

Type of Spill: ☐ Crude Oil ☒ Produced Water ☐ Condensate ☐ Other (Specify):

Comments: Minor Release.

Released: 21 bbls of Produced Water

Recovered: 10 bbls of Produced Water

Site Assessment and Soil Sampling Results

On December 15, 2021, Paragon sent an Environmental Technician to the site to conduct an initial site assessment and obtain soil samples. The results of this sampling event are in the following data table, and all the laboratory results can be found in Appendix F.

1-14-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 0')								
Sample Date: 1-14-22		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria ≤ 100 mg/kg	Closure Criteria ≤ 500 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6	ND	ND	ND	ND	ND	ND	14300
S-2	0-6	ND	ND	ND	ND	ND	ND	24600
S-3	0-6	ND	ND	ND	64.5	ND	64.5	30400
S-4	0-6	ND	ND	ND	ND	ND	ND	19200
	1	--	--	--	--	--	--	2240
S-5	0-6	ND	ND	ND	ND	ND	ND	22800
S-6	0-6	ND	ND	ND	ND	ND	ND	1600
S-7	0-6	ND	ND	ND	ND	ND	ND	32800
S-8	0-6	ND	ND	ND	ND	ND	ND	17200
	1	--	--	--	--	--	--	4760
S-9	0-6	ND	ND	ND	ND	ND	ND	20800
S-10	0-6	ND	ND	ND	ND	ND	ND	35600
S-11	0-6	ND	ND	ND	ND	ND	ND	33200
S-12	0-6	ND	ND	ND	ND	ND	ND	38800
	1	--	--	--	--	--	--	896
	2	--	--	--	--	--	--	80
	3	--	--	--	--	--	--	208

ND- Analyte Not Detected, -- Analyte Not Tested

Remediation Activity Summary

On February 16, 2022, Paragon mobilized personnel and equipment and began remediation. The excavation was split into two sections separating the North and South sections; see Confirmation Sample Map in Figure 5. Each section was excavated to a 2-feet below-grade surface (BGS) depth. The excavated material was hauled to Lea Land LLC, an NMOCD-approved disposal site.

In accordance with NMAC 19.15.29.12, a 48-hour notification was given to the NMOCD for confirmation sampling, see Appendix E. Composite samples were obtained from the sidewalls and bottom for confirmation on February 23, 2022. The results of this event are in the following data table.

2-23-22 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date: 2-23-22		Closure Criteria ≤ 50 mg/kg	Closure Criteria ≤ 10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 500 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
CS-1 (NORTH)	2	ND	ND	ND	ND	ND	ND	112
CS-2 (NORTH)	2	ND	ND	ND	ND	ND	ND	112
N. SW (NORTH)	2	ND	ND	ND	ND	ND	ND	112
E. SW (NORTH)	2	ND	ND	ND	ND	ND	ND	144
E. SW 2 (NORTH)	2	ND	ND	ND	ND	ND	ND	112
W. SW (NORTH)	2	ND	ND	ND	ND	ND	ND	128
W. SW 2 (NORTH)	2	ND	ND	ND	ND	ND	ND	112
CS-1 (SOUTH)	2	ND	ND	ND	ND	ND	ND	112
CS-2 (SOUTH)	2	ND	ND	ND	ND	ND	ND	96
N. SW (SOUTH)	2	ND	ND	ND	ND	ND	ND	112
E. SW 1 (SOUTH)	2	ND	ND	ND	ND	ND	ND	96
E. SW 2 (SOUTH)	2	ND	ND	ND	ND	ND	ND	144
S. SW 1 (SOUTH)	2	ND	ND	ND	ND	ND	ND	96
S. SW 2 (SOUTH)	2	ND	ND	ND	ND	ND	ND	112
W. SW (SOUTH)	2	ND	ND	ND	ND	ND	ND	112

ND- Analyte Not Detected, -- Analyte Not Tested

We proceeded to backfill with the material we obtained from Lea Land based on the clean confirmation samples. We machine compacted the soils and contoured them to match the surrounding areas.

Closure Request

After careful review, Paragon requests that the incident, NAPP2135543093, be closed. Aris has complied with the applicable closure requirements. Should you have any questions or need additional information, please contact Wayne Brunt at 903-522-0833 or wayne@paragonenvironmental.net.

Respectfully,

Wayne Brunt
Environmental Professional
Paragon Environmental LLC

Attachments

Figures:

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

Appendices:

- Appendix A- Referenced Water Data
- Appendix B- Soil Survey & FEMA Flood Map
- Appendix C- C-141
- Appendix D- 48- Hour Notification
- Appendix E- Photographic Documentation
- Appendix F- Laboratory Results



Figures:

- 1-Site Map
- 2- TOPO Map
- 3- Karst Map
- 4- Location Map
- 5- Confirmation Sample Map

Aris Water Midstream

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

Legend

- Pintail Water Reuse
- Samples
- Spill Area



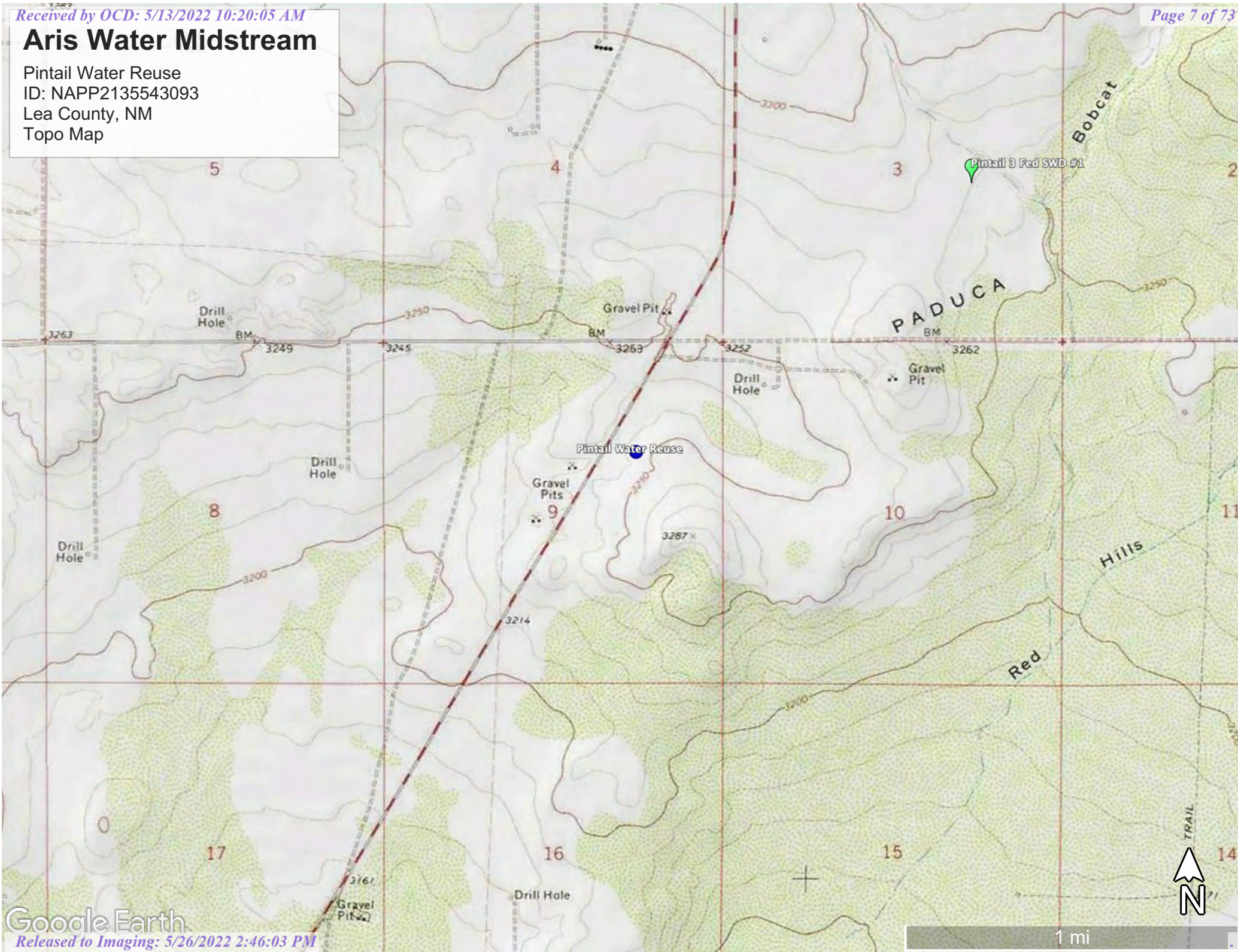
Pintail Water Reuse



200 ft

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

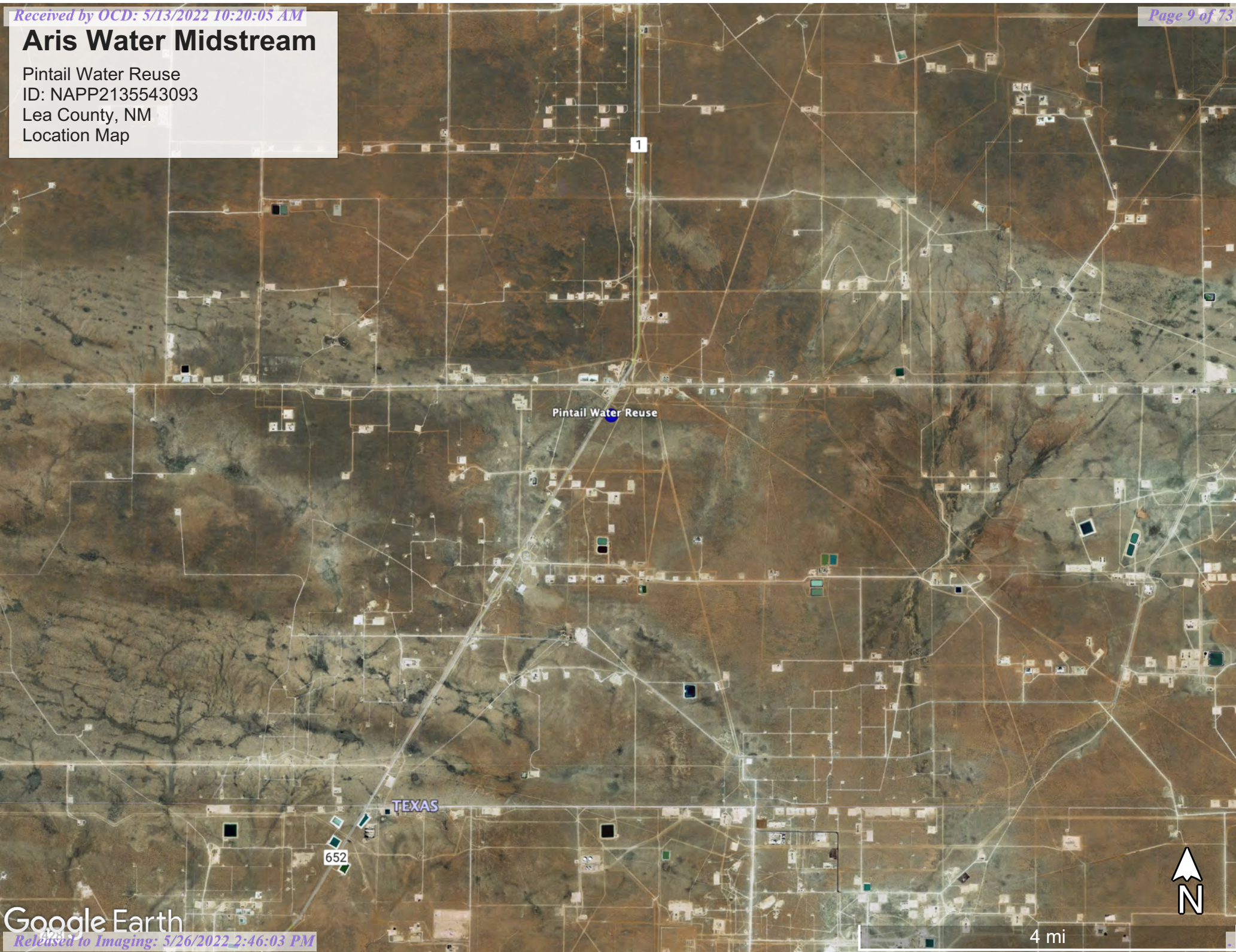
Pintail Water Reuse



1 mi

Aris Water Midstream

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



Aris Water Midstream

Pintail Water Reuse
ID: NAPP2135543093
Lea County, NM
Confirmation Sample Map



100 ft



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
C 04549 POD1		CUB	LE	1	1	1	11	26S	32E	627111	3548316	 2159	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): 624978.114


Northing (Y): 3547983.431

Radius: 3000

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.



New Mexico Office of the State Engineer
Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	TwS	Rng	X	Y
NA	C 04549 POD1	1	1	1	11	26S	32E	627111	3548316 
Driller License: 1249		Driller Company:		ATKINS ENGINEERING ASSOC. INC.					
Driller Name: ATKINS, JACKIE D.		UELENER							
Drill Start Date: 07/14/2021		Drill Finish Date:		07/14/2021		Plug Date:		07/19/2021	
Log File Date: 08/02/2021		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:		0 feet		Depth Water:		0 feet	

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.

2/1/22 1:18 PM POINT OF DIVERSION SUMMARY



Appendix B
Soil Survey:

U.S.D.A.
FEMA Flood Map

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

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

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
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 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.



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	NAPP2135543093
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Aris Water Midstream	OGRID 371643
Contact Name Rob Kirk	Contact Telephone
Contact email rob.kirk@ariswater.com	Incident # NAPP2135543093
Contact mailing address 907 Tradewinds Blvd, Suite B Midland, TX 79706	

Location of Release Source

Latitude 32.06124 Longitude -103.67602
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pintail Water Reuse	Site Type Facility
Date Release Discovered 12-20-21	API# (if applicable)

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

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

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 21 bbls	Volume Recovered 10 bbls
	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

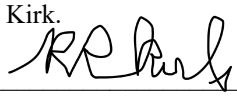
Equipment failure on the tank resulted in the release.

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District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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: Rob Kirk. Signature:  email: rob.kirk@ariswater.com	Title: VP/GM Date: 04/28/2022 Telephone: 469-978-5620
<u>OCD Only</u> Received by: _____ Date: _____	

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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><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 not 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

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District RP	
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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: VP/GM

Signature: 

Date: 04/28/2022

email: rob.kirk@ariswater.com

Telephone: 469-978-5620

OCD Only

Received by: _____

Date: _____

Incident ID	NAPP2135543093
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: VP/GM

Signature: _____



Date: 04/28/2022

email: 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: 05/26/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



Appendix D:

48-Hour Email Notification



Cason Spurlock <cason@paragonenvironmental.net>

nAPP2135543093

2 messages

Cason Spurlock <cason@paragonenvironmental.net>

Mon, Feb 21, 2022 at 2:58 PM

To: EMNRD Bratcher Mike <mike.bratcher@state.nm.us>, EMNRD Hamlet Robert <Robert.Hamlet@state.nm.us>, Chad Hensley <chad.hensley@state.nm.us>

Cc: Rob Kirk <rob.kirk@solariswater.com>

Gentlemen,

This is to inform you we will be conducting confirmation samples at the referenced incident site on Wednesday 2-23-22. If anyone is planning to attend please advise so we can lock in a time that meets your visit.

Thanks,

Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Thu, Feb 24, 2022 at 6:45 AM

To: Cason Spurlock <cason@paragonenvironmental.net>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>, "Billings, Bradford, EMNRD" <Bradford.Billings@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>

Cc: Rob Kirk <rob.kirk@solariswater.com>

Mr. Jones,

Thank you for the notification. Please include a copy of this and all notifications in closure and/or proposal reports. This will insure the notifications become part of the project record and will be a requirement going forward. Attendance at events by OCD personnel may be unannounced, so please include specific and accurate times and dates as may be possible.

Thank you,

Mike Bratcher • Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
Artesia, NM 88210
(575) 626-0857 | mike.bratcher@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

-----Original Message-----

From: Cason Spurlock <cason@paragonenvironmental.net>

Sent: Monday, February 21, 2022 2:59 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>

Cc: Rob Kirk <rob.kirk@solariswater.com>

Subject: [EXTERNAL] nAPP2135543093

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

[Quoted text hidden]

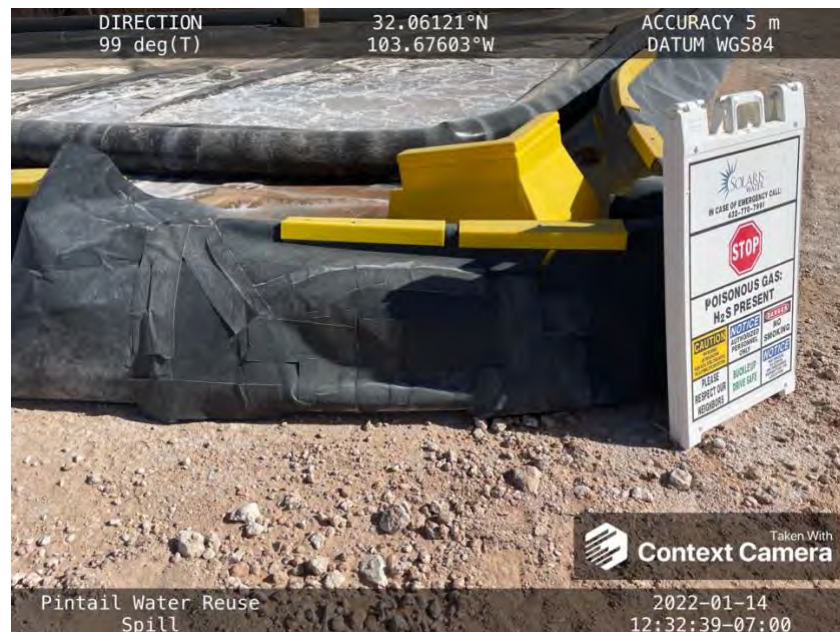
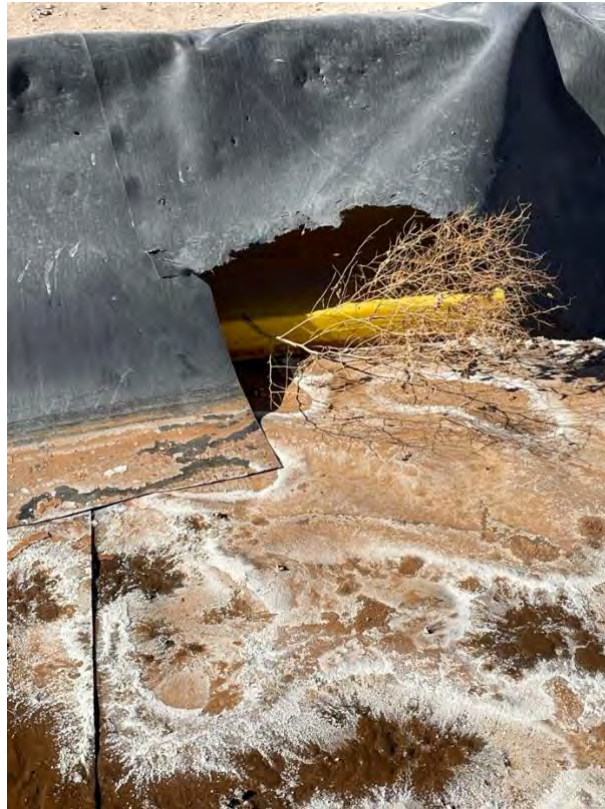


Appendix E:
Photographic Documentation



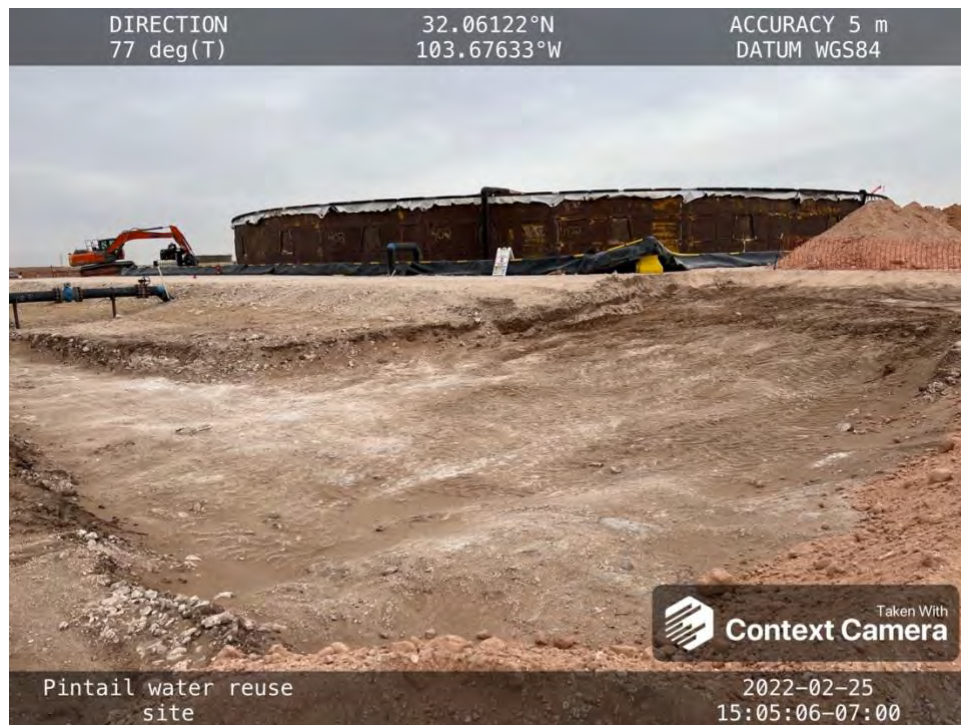
Photographic Documentation

Before Remediation



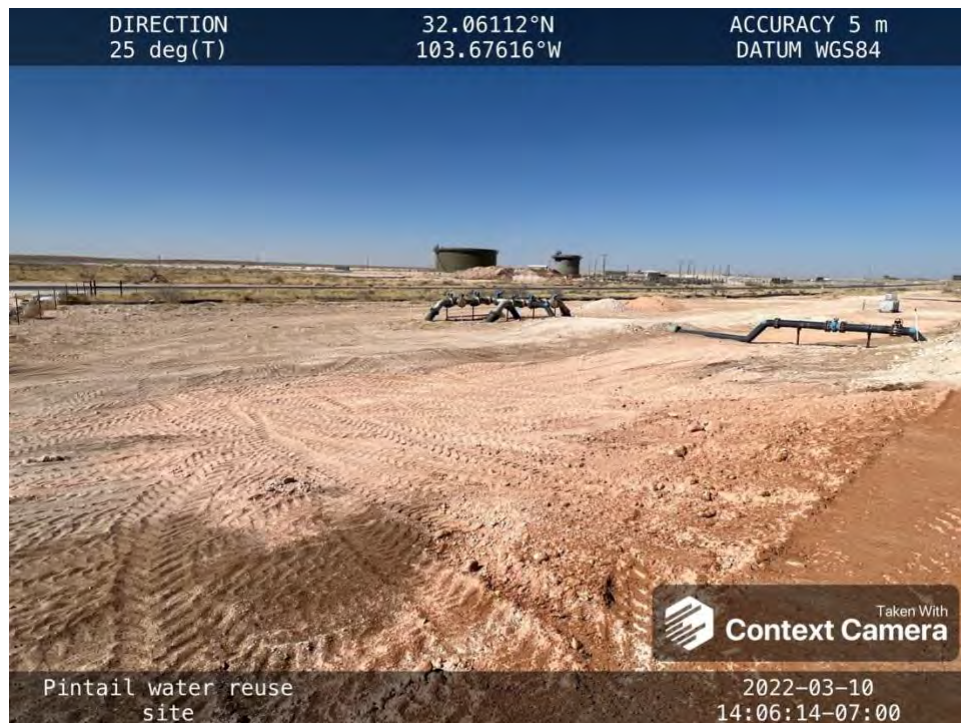
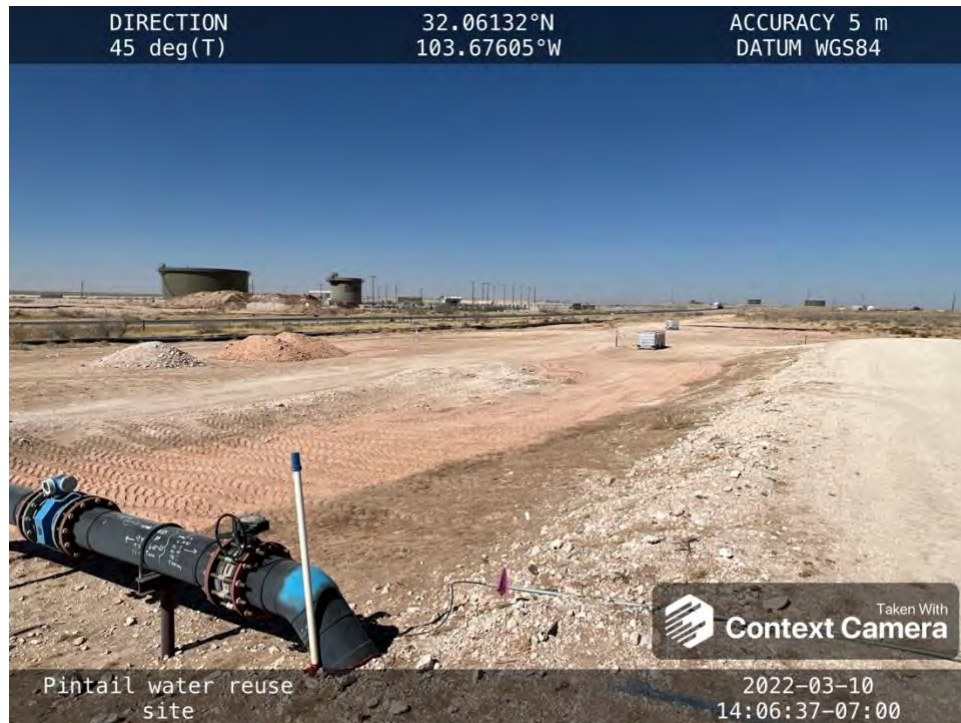


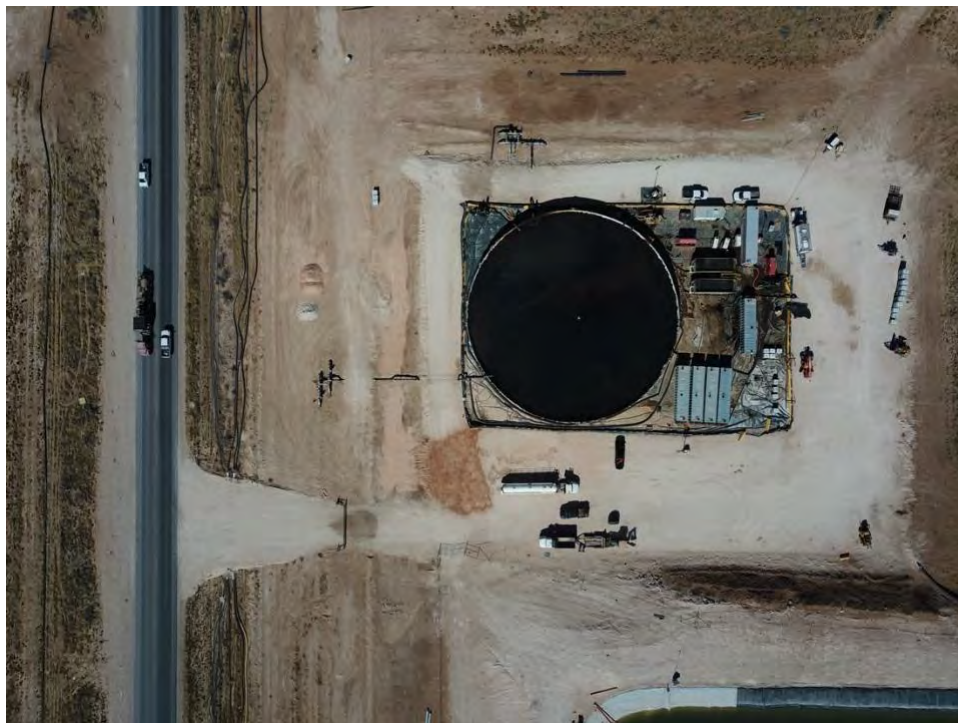
Excavation





Completed







Appendix F:
Laboratory Results



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

January 20, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PINTAIL WATER REUSE SPILL

Enclosed are the results of analyses for samples received by the laboratory on 01/18/22 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 6" (H220184-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480	
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42	
Total BTX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14300	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	209	105	200	2.61	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	214	107	200	7.52	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 6" (H220184-02)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480	
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42	
Total BTX	<0.300	0.300	01/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24600	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.1 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 6" (H220184-03)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	30400	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	64.5	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 6" (H220184-04)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19200	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 1' (H220184-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	01/19/2022	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 6" (H220184-06)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 6" (H220184-07)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 6" (H220184-08)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32800	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 6" (H220184-09)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	01/19/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 1' (H220184-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4760	16.0	01/19/2022	ND	416	104	400	3.92		

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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 6" (H220184-11)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTEX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	01/19/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 10 6" (H220184-12)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	35600	16.0	01/19/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 11 6" (H220184-13)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTEX	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	33200	16.0	01/19/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 12 6" (H220184-14)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2022	ND	1.82	91.1	2.00	0.480		
Toluene*	<0.050	0.050	01/19/2022	ND	1.83	91.3	2.00	1.03		
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.89	94.4	2.00	0.878		
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.71	95.1	6.00	1.42		
Total BTEx	<0.300	0.300	01/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	38800	16.0	01/19/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2022	ND	198	99.1	200	0.246	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	202	101	200	0.248	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.8 % 59.5-142

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Analytical Results For:

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

Received: 01/18/2022
 Reported: 01/20/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 01/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 12 1' (H220184-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	01/19/2022	ND	400	100	400	0.00		

Sample ID: S - 12 2' (H220184-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/19/2022	ND	400	100	400	0.00		

Sample ID: S - 12 3' (H220184-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/19/2022	ND	400	100	400	0.00	

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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", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Page 18 of 19



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental

Project Manager: Cason Spurlock

Address: 5002 Carriage Rd

City: Hobbs State: NM zip: 88242

Phone #: 575-631-6977 Fax #:

Project #: 2-1 Project Owner: Solaris

Project Name: Pitail Water Reuse Spill

Project Location: Eddy, NM

Sample Name: Instac Jones

FOR LAB USE ONLY

Lab I.D. Sample I.D.

422484
11 5-9 6"
12 5-0 6"
13 5-11 6"
14 5-12 6"
15 5-12 1"
16 5-12 2"
17 5-12 3"

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

1/14/22

TPH EXT

BTEX

Chlorides

BILL TO

P.O. #:

Company: Solaris

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

PRESERV.

SAMPLING

ANALYSIS REQUEST

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Relinquished By:

Date: 1/18/22

Received By:

Time: 4:30

Date:

Time:

Relinquished By:

Received By:

Time:

Date:

Time:

Relinquished By:

Received By:

Time:

Date:

Time:

Relinquished By:

Received By:

Time:

Date:

Time:

Delivered By: (Circle One) 575 2-050

5:22 #113

Sample Condition

Cool Intact

Yes ☒ No ☐

Checked By: (Initials)

YB

Phone Result:

Yes ☐ No ☐

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Yes ☐ No ☐

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Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

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Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

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Yes ☐ No ☐

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Yes ☐ No ☐

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Fax Result:

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Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Phone Result:

Fax Result:

Yes ☐ No ☐

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Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Yes ☐ No ☐

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Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Fax Result:

Yes ☐ No ☐

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Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:

Phone Result:

Fax Result:

Phone Result:

Fax Result:

Yes ☐ No ☐

REMARKS:



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

February 28, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PINTAIL WATER REUSE SPILL

Enclosed are the results of analyses for samples received by the laboratory on 02/24/22 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (NORTH) CS - 1 (H220710-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.11	105	2.00	2.05	
Toluene*	<0.050	0.050	02/26/2022	ND	2.07	103	2.00	2.34	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.24	104	6.00	1.75	
Total BTEX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (NORTH) CS - 2 (H220710-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01		
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11		
Total BTX	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (NORTH) N - WALL (H220710-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01		
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11		
Total BTX	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (NORTH) E - WALL 1 (H220710-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01		
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11		
Total BTEx	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (NORTH) E - WALL 2 (H220710-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01	
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.7 % 59.5-142

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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (NORTH) W - WALL 1 (H220710-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01	
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (NORTH) W - WALL 2 (H220710-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01	
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) CS - 1 (H220710-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01		
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11		
Total BTEx	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) CS - 2 (H220710-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01		
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11		
Total BTX	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) N - WALL (H220710-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01		
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11		
Total BTX	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) E - WALL 1 (H220710-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01		
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03		
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36		
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11		
Total BTX	<0.300	0.300	02/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) E - WALL 2 (H220710-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01	
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/25/2022	ND	416	104	400	0.00	QR-03	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) S - WALL 1 (H220710-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01	
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) S - WALL 2 (H220710-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01	
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/24/2022
 Reported: 02/28/2022
 Project Name: PINTAIL WATER REUSE SPILL
 Project Number: 2-1
 Project Location: SOLARIS - EDDY CO NM

Sampling Date: 02/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: (SOUTH) W - WALL (H220710-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2022	ND	2.13	106	2.00	3.01	
Toluene*	<0.050	0.050	02/26/2022	ND	2.15	107	2.00	4.03	
Ethylbenzene*	<0.050	0.050	02/26/2022	ND	2.05	103	2.00	4.36	
Total Xylenes*	<0.150	0.150	02/26/2022	ND	6.35	106	6.00	4.11	
Total BTX	<0.300	0.300	02/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/25/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/25/2022	ND	211	105	200	4.82	
DRO >C10-C28*	<10.0	10.0	02/25/2022	ND	241	121	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	02/25/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Paragon Environmental		P.O. #:		BILL TO													
Project Manager: Cason Spurlock		Company: Aris if not Paragon		ANALYSIS REQUEST													
Address: 5002 Carriage Rd		Attn: Rob Kirk															
City: Hobbs		Address:															
Phone #: 575-631-6977		State: NM Zip: 88242															
Fax #:		City:															
Project #: 2-1		State:															
Project Name: Patail Water Reuse		Zip:															
Project Location: Eddy, NM		Phone #:															
Sample Name: Trickett Jones		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					
H220710	1 (North) CS-1	✓							✓		2/3		TPH EXT				
	2 (North) CS-2												BTEX				
	3 (North) N-wall												Chlorides				
	4 (North) E-wall 1																
	5 (North) E-wall 2																
	6 (North) W-wall 1																
	7 (North) W-wall 2																
	8 (South) CS-1																
	9 (South) CS-2																
	10 (South) N-wall																
PLEASE NOTE: Liability and damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																	
Relinquished By:		Date: 3-24-22		Received By:		Date: 3-24-22		Time: 0830		Time: 0830		REMARKS:					
Relinquished By:		Date:		Received By:		Date:		Time:		Time:		REMARKS:					
Delivered By: (Circle One)		-140		C-0.50		Sample Condition		Cool		Intact		CHECKED BY: (Initials)		V.O.			
Sampler - UPS - Bus - Other:		-1.90 #113				Cool		Intact		Yes							

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 106707

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 106707
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Going forward, please note composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet or seek approval on a variance prior to excavation.	5/26/2022