



June 7, 2023

NMOCD District 2
 Mike Bratcher
 Artesia, NM 88210

Bureau of Land Management
 Crisha Morgan
 Carlsbad Field Office

Re: Variance Request
Empire State SWD 15 #1
API No. 30-015-39771
GPS: Latitude 32.8343163 Longitude -104.0666504
UL "K", Sec. 15, T17S, R29E
Eddy County, NM
NMOCD Ref. No. NAPP2222728274

Mr. Bratcher,

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment, conduct remediation activities, and request this variance for the Empire State SWD 15 #1 (Empire).

It is the intent of Spur to request a closure variance from the New Mexico Oil Conservation District (NMOCD) regarding the current open remediation at the Riser.

More specifically, we are recommending that a Felt Bentonite Clay Liner be installed at the current 4-foot bottom excavation. This is where the source of the spill occurred and the area that was impacted by the incident. A site map (Figure 1) illustrates the impact area from this release. The area impacted measures approximately 125 feet long and 30 feet at its widest point. The liner is proposed to encapsulate the remaining chloride impacts below 5-feet deep. The nearest groundwater was determined to be 76 feet below land surface in the area outside of Loco Hills.

Release Details			
Type of Release:	Produced Water	Volume of Release:	71 bbls
		Volume Recovered:	50 bbls
Source of Release:	Injection Header	Date of Release:	08/12/22
Was Immediate Notice Given?	Yes	If, Yes, to Whom?	OCD Online
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	State	Mineral Owner:	Unknown
Corrosion in the bottom of the injection header.			

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	76'
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?	YES
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. Because of this as well as that the spill happened in a pasture area and HIGH Karst area, it was cleaned up to the most stringent criteria.

Depth to groundwater information is provided in Appendix A.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of the High Plains region (middle to lower Pleistocene)- Includes 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). The soil in this area is made up of Reeves-Gypsum land complex, 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 a High potential for karst geology to be present around the Riser (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 December 15, 2022, Paragon conducted an initial site assessment. During the initial site assessment, nine (9) soil samples were collected in this area to determine the vertical extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

12-15-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date	12-15-22	Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg				Closure Criteria ≤100 mg/kg	Closure Criteria ≤600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	ND	ND	ND	16
	1'	ND	ND	ND	ND	ND	ND	48
	2'	ND	ND	ND	ND	ND	ND	1490
	3'	ND	ND	ND	ND	ND	ND	3760
	4'	ND	ND	ND	ND	ND	ND	5120
S-2	0-6"	ND	ND	ND	ND	ND	ND	32
	1'	ND	ND	ND	ND	ND	ND	96
	2'	ND	ND	ND	ND	ND	ND	512
	3'	ND	ND	ND	ND	ND	ND	3200
	4'	ND	ND	ND	ND	ND	ND	4160
S-3	0-6"	ND	ND	ND	ND	ND	ND	16
	1'	ND	ND	ND	ND	ND	ND	48
	2'	ND	ND	ND	ND	ND	ND	80
	3'	ND	ND	ND	ND	ND	ND	160
S-4	0-6"	ND	ND	ND	ND	ND	ND	80
	1'	ND	ND	ND	ND	ND	ND	384
	2'	ND	ND	ND	ND	ND	ND	8720
	3'	ND	ND	ND	ND	ND	ND	12500
	4'	ND	ND	ND	ND	ND	ND	9120
S-5	0-6"	ND	ND	ND	ND	ND	ND	160
	1'	ND	ND	ND	ND	ND	ND	64
	2'	ND	ND	ND	ND	ND	ND	3720
	3'	ND	ND	ND	ND	ND	ND	6400
S-6	0-6"	ND	ND	ND	ND	ND	ND	64
	1'	ND	ND	ND	ND	ND	ND	3040
	2'	ND	ND	ND	ND	ND	ND	1040
	3'	ND	ND	ND	ND	ND	ND	112
S-7	0-6"	ND	ND	ND	ND	ND	ND	80
	1'	ND	ND	ND	ND	ND	ND	96
	2'	ND	ND	ND	ND	ND	ND	1700
	3'	ND	ND	ND	ND	ND	ND	6240
S-8	0-6"	ND	ND	ND	ND	ND	ND	64
	1'	ND	ND	ND	ND	ND	ND	80
	2'	ND	ND	ND	ND	ND	ND	960
	3'	ND	ND	ND	ND	ND	ND	1580
	4'	ND	ND	ND	ND	ND	ND	5440
S-9	0-6"	ND	ND	ND	ND	ND	ND	32
	1'	ND	ND	ND	ND	ND	ND	16
	2'	ND	ND	ND	ND	ND	ND	224
	3'	ND	ND	ND	ND	ND	ND	5120
	4'	ND	ND	ND	ND	ND	ND	7730

ND- Analyte Not Detected

REMEDIATION ACTIVITIES TO DATE

We scheduled to utilize a geoprobe to advance our vertical samples in order to obtain vertical delineation prior to excavating. This data was obtained in advance in anticipation of asking for a variance. We obtained samples starting at 6 feet, each soil boring obtained 4 feet of soil. We field titrated the bottom sample of each boring to determine if we needed to advance additional samples. We advanced the boring until clean results were found. We sent these samples to the lab for final analysis, and those results are in the following data table.

5-4-23 Soil Boring Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 76')								
Sample Date 5-4-23		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-1	20	ND	ND	ND	ND	ND	ND	160
S-2	18	ND	ND	ND	ND	ND	ND	32
S-3	13	ND	ND	ND	ND	ND	ND	128
S-4	18	ND	ND	ND	ND	ND	ND	240
S-5	14	ND	ND	ND	ND	ND	ND	608
S-6	15	ND	ND	ND	ND	ND	ND	256

ND- Analyte Not Detected

- The impacted area has been excavated from 4 feet to 5 feet in depth across the entire spill area.
- Confirmation Sidewall samples have been obtained for horizontal delineation. These samples were taken at a depth of 4 feet.

5-19-23 Confirmation Sidewall Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 76')								
Sample Date 5-19-23		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
SSW-1	4	--	--	--	--	--	--	80
SSW-2	4	--	--	--	--	--	--	240
SSW-3	4	--	--	--	--	--	--	240
SSW-4	4	--	--	--	--	--	--	272
NSW-1	4	--	--	--	--	--	--	1170
NSW-2	4	--	--	--	--	--	--	48
NSW-3	4	--	--	--	--	--	--	16
NSW-4	4	--	--	--	--	--	--	16
WSW-1	4	--	--	--	--	--	--	80
WSW-2	4	--	--	--	--	--	--	64
ESW-1	4	--	--	--	--	--	--	32
ESW-2	4	--	--	--	--	--	--	16

-- Analyte Not Tested

After receiving the sample results, it was decided to advance the sidewall in the vicinity of NSW-1 an additional 1 foot. We also ran these samples for BTEX and TPH that weren't originally tested initially. Once this was completed, we tested these areas again. The results are below:

5-29-23 Advanced Sidewall Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 76')								
Sample Date 5-29-23		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
SSW-1	4	ND	ND	ND	ND	ND	ND	--
SSW-2	4	ND	ND	ND	ND	ND	ND	--
SSW-3	4	ND	ND	ND	ND	ND	ND	--
SSW-4	4	ND	ND	ND	ND	ND	ND	--
NSW-1	4	ND	ND	ND	ND	ND	ND	32
NSW-2	4	ND	ND	ND	ND	ND	ND	--
NSW-3	4	ND	ND	ND	ND	ND	ND	--
NSW-4	4	ND	ND	ND	ND	ND	ND	--
WSW-1	4	ND	ND	ND	ND	ND	ND	--
WSW-2	4	ND	ND	ND	ND	ND	ND	--
ESW-1	4	ND	ND	ND	ND	ND	ND	--
ESW-2	4	ND	ND	ND	ND	ND	ND	--

ND- Analyte Not Detected, -- Analyte Not Tested

VARIANCE REQUEST

- Paragon will then install a Felt Bentonite Clay Liner at the excavation depth of 4 feet along the length of the excavation. The liner will be keyed at the edges to prevent future movement. Clean topsoil and sand have been stockpiled at the site and will be used to backfill the area.

Paragon requests that the incident, NAPP2222728274, be granted the variance to advance bringing the incident to closure.

If you have any questions or need additional information, please contact Chris Jones at (575)964-7814 or email at chris@paragonenvironmental.net.

Respectfully,



Chris Jones
Environmental Professional
Paragon Environmental, LLC



Attachments

Figures:

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

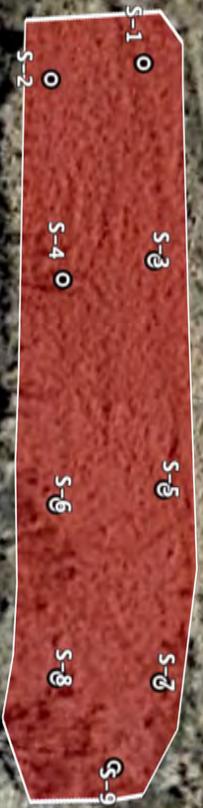
Spur Energy Partners

Empire St SWD 15 #1
API# 30-015-39771
Eddy County, NM
Site Map

Legend

-  Samples
-  Spill Area
-  Spill Area 32.8338167, -104.06609166

Spill Area 32.8338167, -104.06609166

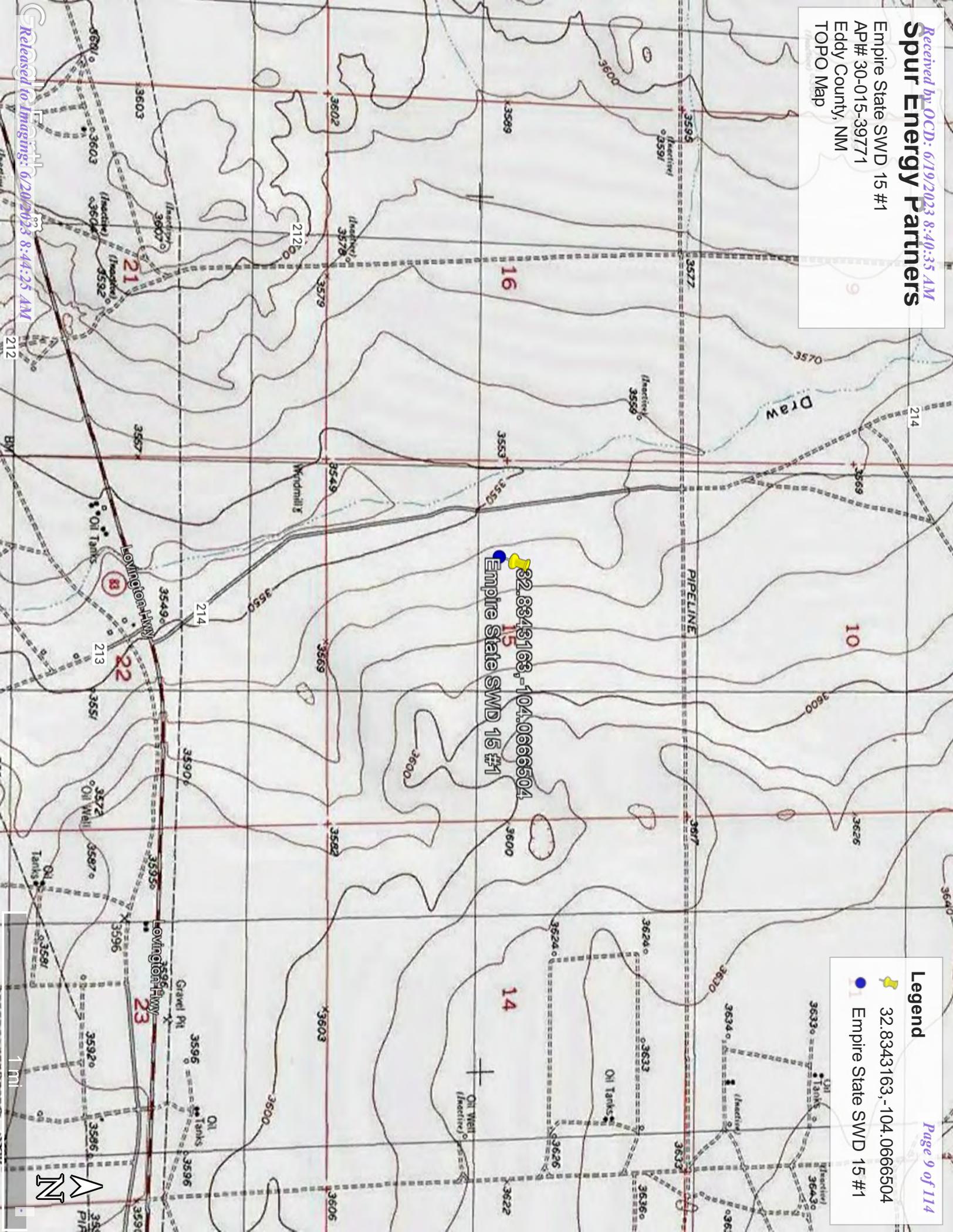


100 ft



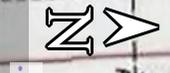
Spur Energy Partners

Empire State SWD 15 #1
AP# 30-015-39771
Eddy County, NM
TOPO Map



Legend

-  32.8343163, -104.0666504
-  Empire State SWD 15 #1



1 mi

Empire State SWD 15 #1
AP# 30-015-39771
Eddy County, NM
Aerial Map

214

Legend

-  32.8343163, -104.0666504
-  Empire State SWD 15 #1
-  High
-  Low
-  Medium

 32.8343163, -104.0666504
 Empire State SWD 15 #1

212

214

213

Lexington Hwy

Lexington Hwy

212

1 mi



Empire State SWD 15 #1
AP# 30-015-39771
Eddy County, NMI
Aerial Map

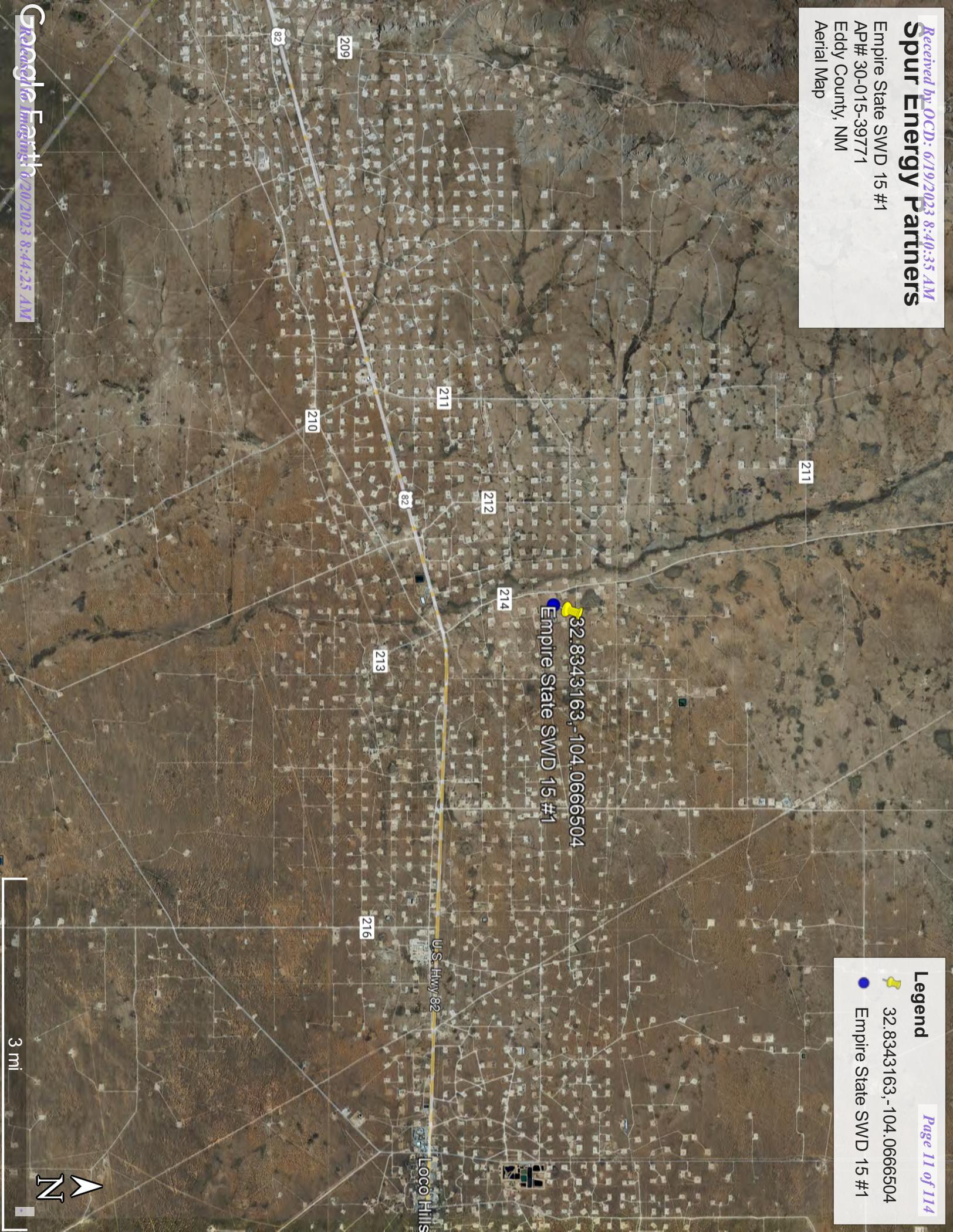
32.8343163, -104.0666504
Empire State SWD 15 #1

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Legend

-  32.8343163, -104.0666504
-  Empire State SWD 15 #1

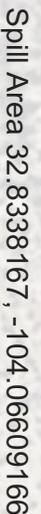
3 mi



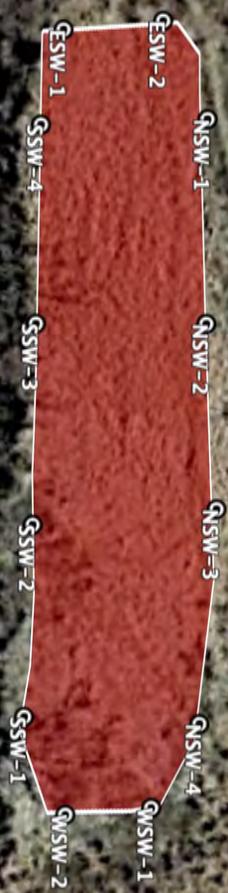
Spur Energy Partners

Empire St SWD 15 #1
API# 30-015-39771
Eddy County, NM
Sidewall Confirmation Map

Legend

-  Samples
-  Spill Area
-  Spill Area 32.8338167, -104.06609166

Spill Area 32.8338167, -104.06609166



Spur Energy Partners

Empire St SWD 15 #1
API# 30-015-39771
Eddy County, NM
Bore Hole Map

Legend

- Boring Locations
- ▭ Spill Area
- Spill Area 32.8338167, -104.06609166





Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



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
RA 11807	POD1	1 2 3	22 17S 29E	587360 3631585

Driller License: 1348	Driller Company: TAYLOR WATER WELL SERVICE	
Driller Name: TAYLOR, CLINTON E.		
Drill Start Date: 11/23/2012	Drill Finish Date: 11/26/2012	Plug Date:
Log File Date: 03/26/2013	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 4 GPM
Casing Size: 4.50	Depth Well: 131 feet	Depth Water: 76 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	128	Other/Unknown

Casing Perforations:	Top	Bottom
	91	131

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.

10/18/22 3:55 PM

POINT OF DIVERSION SUMMARY



Appendix B
Soil Survey:

U.S.D.A.
FEMA Flood Map

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Reagan

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: No

Data Source Information

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



Legend

SEE THIS 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
	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 OF FLOOD HAZARD	NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D
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OTHER AREAS	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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GENERAL STRUCTURES	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 Profile Baseline Hydrographic Feature
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OTHER FEATURES	Digital Data Available No Digital Data Available Unmapped
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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 **10/18/2022 at 5:55 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 unnumbered 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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	nAPP2222728274
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Spur Energy Partners, LLC	OGRID	328947
Contact Name	Chad Hensley	Contact Telephone	(346) 339-1494
Contact email	chensley@spurenergy.com	Incident # (assigned by OCD)	nAPP2222728274
Contact mailing address	9655 Katy Freeway, Suite 500, Houston, TX 77024		

Location of Release Source

Latitude 32.8343163 Longitude -104.0666504
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Empire State SWD 15#001	Site Type	SWD
Date Release Discovered	08/12/2022	API# (if applicable)	30-015-39771

Unit Letter	Section	Township	Range	County
K	15	17S	29E	Eddy

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 (bbls) 71bbl	Volume Recovered (bbls) 50bbl
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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

Corrosion in the bottom of injection header.

State of New Mexico
 Oil Conservation Division

Page 2

Incident ID	nAPP2222728274
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? Release greater than 25bbl.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Mike Bratcher, Rob Hamlet, & Jennifer Noboui.	

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: <u>Chad Hensley</u>	Title: <u>EHS Coordinator</u>
Signature: <u></u>	Date: <u>08/15/2022</u>
email: <u>chensley@spurenergy.com</u>	Telephone: <u>(346) 339-1494</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>08/15/2022</u>



Appendix D:

Email Notification

Photographic Documentation

Wednesday, June 7, 2023 at 12:42:53 Central Daylight Time

Subject: Empire SWD 15 #1

Date: Tuesday, May 16, 2023 at 8:44:46 AM Central Daylight Time

From: Angel Pena

To: Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD

To All,

This is to inform you we will be obtaining confirmation samples at the Empire SWD 15 #1 on 5-019-23 at approximately 8 am.

Thank You,

Angel O. Peña

Field supervisor

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

[Hobbs, NM 88240](#)

angel@paragonenvironmental.net

575-605-0773



Photographic Documentation

During Project



May 10, 2023 at 9:05:00 AM
+32.833815,-104.066348
Artesia NM 88210
United States
Spur Energy
Empire SWD
Dig out





Appendix E:
Laboratory Results



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

December 22, 2022

CASON SPURLOCK
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: EMPIRE 15

Enclosed are the results of analyses for samples received by the laboratory on 12/16/22 10:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 1 0-6" (H225956-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96		
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1		
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87		
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28		
Total BTEX	<0.300	0.300	12/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	16.0	16.0	12/20/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	203	101	200	3.42		
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	191	95.3	200	7.40		
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND						

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 1 1' (H225956-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	48.0	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	203	101	200	3.42	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	191	95.3	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 67.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.3 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 1 2' (H225956-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1490	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	203	101	200	3.42	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	191	95.3	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 1 3' (H225956-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	3760	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	203	101	200	3.42	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	191	95.3	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 63.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 65.7 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 1 4' (H225956-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	5120	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	203	101	200	3.42	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	191	95.3	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 66.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.8 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 0-6" (H225956-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	32.0	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	203	101	200	3.42	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	191	95.3	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 67.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.4 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 1' (H225956-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	96.0	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	203	101	200	3.42	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	191	95.3	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 74.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.2 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 2' (H225956-08)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96		
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1		
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87		
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28		
Total BTEX	<0.300	0.300	12/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	512	16.0	12/20/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	QM-07	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32		
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND						

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.5 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 3' (H225956-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	3200	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 2 4' (H225956-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	4160	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 3 0-6" (H225956-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.10	105	2.00	7.96	
Toluene*	<0.050	0.050	12/20/2022	ND	2.20	110	2.00	11.1	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.09	105	2.00	6.87	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.53	109	6.00	7.28	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 3 1' (H225956-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	48.0	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.7 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 3 2' (H225956-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.3 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 3 3' (H225956-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	160	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 4 0-6" (H225956-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/22/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/22/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/22/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 4 1' (H225956-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	0.054	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	384	16.0	12/20/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 4 2' (H225956-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	0.060	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	8720	16.0	12/20/2022	ND	416	104	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.8 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 4 3' (H225956-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	12500	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 4 4' (H225956-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	9120	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 5 0-6" (H225956-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	160	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.6 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 5 1' (H225956-21)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	64.0	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 5 2' (H225956-22)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	3720	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.4 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 5 3' (H225956-23)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	6400	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 6 0-6" (H225956-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 6 1' (H225956-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	3040	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.8 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 6 2' (H225956-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1040	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.0 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 6 3' (H225956-27)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	112	16.0	12/20/2022	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	12/20/2022	ND	208	104	200	5.04	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 7 0-6" (H225956-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	80.0	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 97.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 7 1' (H225956-29)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	96.0	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 7 2' (H225956-30)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1700	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 7 3' (H225956-31)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2022	ND	2.07	103	2.00	0.0646	
Toluene*	<0.050	0.050	12/20/2022	ND	2.23	112	2.00	4.19	
Ethylbenzene*	<0.050	0.050	12/20/2022	ND	2.21	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	12/20/2022	ND	6.62	110	6.00	0.124	
Total BTEX	<0.300	0.300	12/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	6240	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 8 0-6" (H225956-32)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	64.0	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 8 1' (H225956-33)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	80.0	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 8 2' (H225956-34)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	960	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 8 3' (H225956-35)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1580	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 8 4' (H225956-36)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	5440	16.0	12/20/2022	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	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 9 0-6" (H225956-37)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	32.0	16.0	12/20/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 9 1' (H225956-38)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9		
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1		
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5		
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8		
Total BTEX	<0.300	0.300	12/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	12/20/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	194	97.2	200	2.64		
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7		
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND						

Surrogate: 1-Chlorooctane 65.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.5 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 9 2' (H225956-39)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9		
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1		
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5		
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8		
Total BTEX	<0.300	0.300	12/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	224	16.0	12/20/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	194	97.2	200	2.64		
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7		
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND						

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 9 3' (H225956-40)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	5120	16.0	12/20/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	12/16/2022	Sampling Date:	12/15/2022
Reported:	12/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE 15	Sampling Condition:	Cool & Intact
Project Number:	EDDY COUNTY	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S - 9 4' (H225956-41)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2022	ND	2.11	105	2.00	12.9	
Toluene*	<0.050	0.050	12/21/2022	ND	2.28	114	2.00	16.1	
Ethylbenzene*	<0.050	0.050	12/21/2022	ND	2.31	116	2.00	15.5	
Total Xylenes*	<0.150	0.150	12/21/2022	ND	6.94	116	6.00	15.8	
Total BTEX	<0.300	0.300	12/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	7730	16.0	12/20/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2022	ND	194	97.2	200	2.64	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	193	96.4	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A-01 CCV recovery high on DRO. All analytes ND, data not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
Project Manager: Cason Spurlock

Address: 5002 Carriage Rd
City: Hobbs

Phone #: 575-631-6977

Project #:

Project Name: Empire 15

Project Location: Eddy County

Sampler Name: Jeremy Wanner

P.O. #:

Company: SPUR

Attn: Brady Wolder

Address:

City:

State: Zip:

Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H225956
S-1 0.6
S-1 1'
S-1 2'
S-1 3'
S-1 4'
S-1 0.4'
S-1 1'
S-1 2'
S-1 3'
S-1 4'

(G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER
ACID/BASE:
ICE / COOL
OTHER

DATE TIME
12/15

TPH Ext.
BTEX
Chlorides

PLEASE NOTE: Custody and Chain of Custody records are required for any item arising at the source or on-site or that shall be taken to the laboratory by the client for the analysis. All items, including those for negligence and any other cause whatsoever, shall be deemed waived unless marked as such and deemed by Cardinal when 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, damages for lost profits, arising out of or related to the performance of analytical services provided by Cardinal, regardless of the form of contract used. This release shall be deemed to be a condition of any order placed with Cardinal. This release shall be deemed to be a condition of any order placed with Cardinal.

Relinquished By: [Signature]

Date: 12/15/15 Received By: [Signature]

Relinquished By: [Signature]

Date: 10/5/15 Received By: [Signature]

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: 3.9c / 3.3c

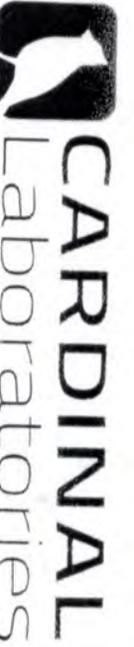
Sample Condition
Cool Intact
Yes No

CHECKED BY: [Signature]

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

REMARKS: Email results to Chris Jones

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
 Project Manager: Cason Spurlock
 Address: 5002 Carriage Rd
 City: Hobbs
 Phone #: 575-631-6977
 State: NM zip: 88242
 Fax #: 575-631-6977
 Project #: _____
 Project Owner: SPUR
 City: _____
 State: _____ Zip: _____
 Project Name: Empire 15
 Project Location: Eddy County
 Sample Name: Jeremy Markey
 P.O. #: _____
 Company: SPUR
 Attn: Brady Wolden
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH Ext.	BTEX	Chlorides
H22956	11	0.6					12:45				
	12	0.3									
	13	0.3									
	14	0.3									
	15	0.4									
	16	0.4									
	17	0.4									
	18	0.4									
	19	0.4									
	20	0.6									

PLEASE NOTE: Tubing and Damages...
 Reinquished By: [Signature]
 Date: 12.15.12
 Time: 10:50
 Received By: [Signature]
 Date: _____
 Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3.9¢ / 3.3¢ #113
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #: _____
 Add'l Fax #: _____
 REMARKS: Email results to Chris Jones.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental
Project Manager: Cason Spurlock

Address: 5002 Carriage Rd
City: Hobbs State: NM zip: 88242

Phone #: 575-631-6977 Fax #: Project Owner: Spur2

Project #: Project Name: Empire 15
Project Location: Fidelity County

Sampler Name: Jeremy Maxwell

P.O. #:
Company: Spur
Attn: Brady Wolder

Address:
City:
State:
Zip:

Phone #:
Fax #:

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	TPH Ext.	BTEX	Chlorides
H335952	1												12-15				
	2																
	3																
	4																
	5																
	6																
	7																
	8																
	9																

PLEASE NOTE: Ladders and Drums... Cardinal Laboratories and clients...
Analysis Requested: TPH Ext. BTEX Chlorides

Relinquished By: [Signature]
Date: 12-15-15
Received By: [Signature]
Date: 12-15-15

Delivered By: (Circle One) UPS - Bus - Other: 3.9g / 3.3g
Sample Condition: Cool Intact
Checked By: [Signature]
REMARKS: Email results to Chris Jones



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental
 Project Manager: Cason Spurlock
 Address: 5002 Carriage Rd
 City: Hobbs
 State: NM zip: 88242
 Phone #: 575-631-6977
 Project #: 15
 Project Name: Empire 15
 Project Location: Eddy County
 Sampler Name: Yvonne Warner

P.O. #:
 Company: SPUIZ
 Attn: Brady Wolden
 Address:
 City:
 State:
 Zip:
 Project Owner: SPUIZ
 Fax #:
 Phone #:
 Fax #:

FOR LAB USE ONLY
 Lab I.D. H225956
 Sample I.D. 30, 31, 32, 33, 34, 35, 36, 37, 38, 39
 Matrix: (G)RAB OR (C)OMP
 # CONTAINERS
 GROUNDWATER
 WASTEWATER
 SOIL
 OIL
 SLUDGE
 OTHER
 ACID/BASE
 ICE / COOL
 OTHER
 DATE TIME 12.15
 ANALYSIS REQUEST: TPH Ex., BTEX, Chlorides

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Relinquished By: [Signature]
 Date: 12.15.22
 Time: 1:20
 Received By: [Signature]
 Date: 12.15.22
 Time: 1:20
 Phone Result: Yes No
 Add'l Phone #:
 Fax Result: Yes No
 Add'l Fax #:
 REMARKS:
 Email results to Chris Jones.

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3.9c / 3.3c
 Sample Condition: Intact Cool
 Checked By: [Signature]
 Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

May 09, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: EMPIRE STATE SWD

Enclosed are the results of analyses for samples received by the laboratory on 05/05/23 8:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/05/2023	Sampling Date:	05/04/2023
Reported:	05/09/2023	Sampling Type:	Soil
Project Name:	EMPIRE STATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S 1 20' (H232223-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/07/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/07/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/07/2023	ND	6.50	108	6.00	1.54	
Total BTEX	<0.300	0.300	05/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/08/2023	ND	416	104	400	0.00	QM-07

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	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/05/2023	Sampling Date:	05/04/2023
Reported:	05/09/2023	Sampling Type:	Soil
Project Name:	EMPIRE STATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S 2 18' (H232223-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2023	ND	2.15	108	2.00	4.72		
Toluene*	<0.050	0.050	05/07/2023	ND	2.13	107	2.00	4.54		
Ethylbenzene*	<0.050	0.050	05/07/2023	ND	2.12	106	2.00	3.17		
Total Xylenes*	<0.150	0.150	05/07/2023	ND	6.50	108	6.00	1.54		
Total BTEX	<0.300	0.300	05/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/08/2023	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	05/05/2023	ND	170	84.8	200	5.40		
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983		
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND						

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/05/2023	Sampling Date:	05/04/2023
Reported:	05/09/2023	Sampling Type:	Soil
Project Name:	EMPIRE STATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S 3 13' (H232223-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/07/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/07/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/07/2023	ND	6.50	108	6.00	1.54	
Total BTEX	<0.300	0.300	05/07/2023	ND					

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

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	05/08/2023	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	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/05/2023	Sampling Date:	05/04/2023
Reported:	05/09/2023	Sampling Type:	Soil
Project Name:	EMPIRE STATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S 4 18' (H232223-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/07/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/07/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/07/2023	ND	6.50	108	6.00	1.54	
Total BTEX	<0.300	0.300	05/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/08/2023	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	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/05/2023	Sampling Date:	05/04/2023
Reported:	05/09/2023	Sampling Type:	Soil
Project Name:	EMPIRE STATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: S 5 14' (H232223-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92		
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75		
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89		
Total BTEX	<0.300	0.300	05/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	05/08/2023	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	05/05/2023	ND	170	84.8	200	5.40		
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983		
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND						

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/05/2023
Reported: 05/09/2023
Project Name: EMPIRE STATE SWD
Project Number: NOT GIVEN
Project Location: SPUR - EDDY COUNTY

Sampling Date: 05/04/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 6 15' (H232223-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.91	95.3	2.00	8.92	
Toluene*	<0.050	0.050	05/08/2023	ND	1.96	98.2	2.00	8.75	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.89	94.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.86	97.7	6.00	9.89	
Total BTEX	<0.300	0.300	05/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/08/2023	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	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental **BILL TO** ANALYSIS REQUEST

Project Manager: Chris Jones P.O. #:

Address: 1601 N. Turner St., Ste 500 Company: *SOUL*

City: Hobbs State: NIM zip: 88240 Attn: *Brendy Mober*

Phone #: 575-964-7814 Fax #: Address:

Project #: Project Owner: City: State: Zip:

Project Name: *EMPIRE STATE SWD* Phone #:

Project Location: *Eddy County* Fax #:

Sampler Name: *Ben Davis* MATRIX PRESERV SAMPLING

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	ANALYSIS REQUEST
<i>H232203</i>	<i>51</i>	<i>20'</i>											<i>5-4</i>		<i>TPH</i>
	<i>2</i>	<i>52</i>													<i>BTEX</i>
	<i>3</i>	<i>53</i>													<i>Chlorides</i>
	<i>4</i>	<i>54</i>													
	<i>5</i>	<i>55</i>													
	<i>6</i>	<i>56</i>													

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Relinquished By: *BD* Date: *5-5-23* Received By: *[Signature]* Date: *5-5-23*

Reinquinshed By: *[Signature]* Date: *8/12* Reserved By: *[Signature]* Date: *8/12*

Delivered By: (Circle One) *#13* Sample Condition: Intact Cool Yes No Yes No CHECKED BY: *[Signature]*

Sampler - UPS - Bus - Other: *-9.1c / -9.7c*

REMARKS: *Email results to Chris Jones*

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



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

May 24, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: EMPIRE ST.

Enclosed are the results of analyses for samples received by the laboratory on 05/19/23 17:10.

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

Cardinal Laboratories is 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
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	05/19/2023	Sampling Date:	05/19/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	EMPIRE ST.	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: SSW - 1 (H232569-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: SSW - 2 (H232569-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: SSW - 3 (H232569-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: SSW - 4 (H232569-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/22/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/19/2023	Sampling Date:	05/19/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	EMPIRE ST.	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - EDDY COUNTY		

Sample ID: NSW - 1 (H232569-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: NSW - 2 (H232569-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: NSW - 3 (H232569-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: NSW - 4 (H232569-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: WSW - 1 (H232569-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2023	ND	432	108	400	0.00	

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

Received: 05/19/2023
 Reported: 05/24/2023
 Project Name: EMPIRE ST.
 Project Number: NOT GIVEN
 Project Location: SPUR - EDDY COUNTY

Sampling Date: 05/19/2023
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 2 (H232569-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: ESW - 1 (H232569-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/22/2023	ND	432	108	400	0.00	

Sample ID: ESW - 2 (H232569-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/22/2023	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: _____ P.O. #: _____
 Project Manager: _____ Company: SPUD
 Address: _____ Attn: Bradley Welden
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: SPUD City: _____ State: _____ Zip: _____
 Project Name: Empire State Phone #: _____
 Project Location: Eddy County Fax #: _____
 Sampler Name: Jeremy Wagon Matrix: _____ PRESERV: _____ SAMPLING: _____
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	REMARKS
<u>H235269</u>	<u>ESW-1</u>						<u>05/19</u>	<u>1</u>	<u>Chlorides</u>
<u>11</u>	<u>ESW-1</u>								
<u>12</u>	<u>ESW-2</u>								

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Relinquished By: _____ Date: 05/19 Received By: _____ Date: 05/19
 Relinquished By: _____ Date: 05/19 Received By: _____ Date: 05/19

Delivered By: (Circle One) Observed Temp. °C 30.9 Sample Condition: Intact Cool Intact Cool
 Corrected Temp. °C 30.3 CHECKED BY: _____ (Initials)
 Sampler - UPS - Bus - Other: _____ Thermometer ID #113 Standard Rush
 Correction Factor -0.5°C Bacteria (only) Sample Condition: Intact Cool Observed Temp. °C
 Yes No Yes No Yes No No No Corrected Temp. °C

REMARKS: you know

Turnaround Time: _____ Add'l Phone #: _____
 Verbal Results: Yes No Add'l Phone #: _____
 All Results emailed. Please provide Email address: _____

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

June 07, 2023

CHRIS JONES
PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS, NM 88242

RE: EMPIRE ST SWD 15 #1

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:56.

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

Cardinal Laboratories is 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: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSW - 1	H232736-01	Soil	19-May-23 00:00	30-May-23 13:56
SSW - 2	H232736-02	Soil	19-May-23 00:00	30-May-23 13:56
SSW - 3	H232736-03	Soil	19-May-23 00:00	30-May-23 13:56
SSW - 4	H232736-04	Soil	19-May-23 00:00	30-May-23 13:56
NSW - 1	H232736-05	Soil	19-May-23 00:00	30-May-23 13:56
NSW - 2	H232736-06	Soil	19-May-23 00:00	30-May-23 13:56
NSW - 3	H232736-07	Soil	19-May-23 00:00	30-May-23 13:56
NSW - 4	H232736-08	Soil	19-May-23 00:00	30-May-23 13:56
ESW - 1	H232736-09	Soil	19-May-23 00:00	30-May-23 13:56
ESW - 2	H232736-10	Soil	19-May-23 00:00	30-May-23 13:56
WSW - 1	H232736-11	Soil	19-May-23 00:00	30-May-23 13:56
WSW - 2	H232736-12	Soil	19-May-23 00:00	30-May-23 13:56

06/07/23 - Client clarified the project name (see COC). This is the revised report and will replace the one sent on 06/02/23.

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: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-JUN-23 17:32
---	---	------------------------------

**SSW - 1
H232736-01 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053101	MS	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053101	MS	31-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		3053101	MS	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
Surrogate: 1-Chlorooctane			116 %	48.2-134		3053107	MS	31-May-23	8015B	
Surrogate: 1-Chlorooctadecane			130 %	49.1-148		3053107	MS	31-May-23	8015B	

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: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
---	---	------------------------------

**SSW - 2
H232736-02 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053101	MS	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053101	MS	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3053101	MS	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			91.0 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			101 %	49.1-148		3053107	MS	31-May-23	8015B	

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: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
---	---	------------------------------

**SSW - 3
H232736-03 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053101	MS	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053101	MS	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3053101	MS	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			90.7 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			101 %	49.1-148		3053107	MS	31-May-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: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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**SSW - 4
H232736-04 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053101	MS	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053101	MS	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3053101	MS	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.5 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		3053107	MS	31-May-23	8015B	

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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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**NSW - 1
H232736-05 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3053124	AC	31-May-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053101	MS	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053101	MS	31-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		71.5-134	3053101	MS	31-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.3 %		48.2-134	3053107	MS	31-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		49.1-148	3053107	MS	31-May-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: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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**NSW - 2
H232736-06 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053101	MS	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053101	MS	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3053101	MS	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			88.2 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			96.8 %	49.1-148		3053107	MS	31-May-23	8015B	

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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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**NSW - 3
H232736-07 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053101	MS	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053101	MS	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053101	MS	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3053101	MS	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			92.6 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			102 %	49.1-148		3053107	MS	31-May-23	8015B	

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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: EMPIRE ST SWD 15 #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
07-Jun-23 17:32

NSW - 4
H232736-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053102	JH/	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3053102	JH/	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			90.4 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			98.7 %	49.1-148		3053107	MS	31-May-23	8015B	

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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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**ESW - 1
H232736-09 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053102	JH/	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		3053102	JH/	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.8 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			95.3 %	49.1-148		3053107	MS	31-May-23	8015B	

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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: EMPIRE ST SWD 15 #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
07-Jun-23 17:32

ESW - 2**H232736-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053102	JH/	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		3053102	JH/	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			113 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			122 %	49.1-148		3053107	MS	31-May-23	8015B	

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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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**WSW - 1
H232736-11 (Soil)**

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

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053102	JH/	31-May-23	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		3053102	JH/	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctane</i>			94.0 %	48.2-134		3053107	MS	31-May-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			106 %	49.1-148		3053107	MS	31-May-23	8015B	

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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: EMPIRE ST SWD 15 #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
07-Jun-23 17:32

WSW - 2**H232736-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053102	JH/	31-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053102	JH/	31-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		3053102	JH/	31-May-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053107	MS	31-May-23	8015B	
Surrogate: 1-Chlorooctane			100 %	48.2-134		3053107	MS	31-May-23	8015B	
Surrogate: 1-Chlorooctadecane			113 %	49.1-148		3053107	MS	31-May-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: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3053124 - 1:4 DI Water										
Blank (3053124-BLK1)										
Prepared & Analyzed: 31-May-23										
Chloride	ND	16.0	mg/kg							
LCS (3053124-BS1)										
Prepared & Analyzed: 31-May-23										
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (3053124-BSD1)										
Prepared & Analyzed: 31-May-23										
Chloride	432	16.0	mg/kg	400		108	80-120	3.64	20	

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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: EMPIRE ST SWD 15 #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
07-Jun-23 17:32

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 3053101 - Volatiles**Blank (3053101-BLK1)**

Prepared & Analyzed: 31-May-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)	0.0518		mg/kg	0.0500		104	71.5-134			

LCS (3053101-BS1)

Prepared & Analyzed: 31-May-23

Benzene	2.33	0.050	mg/kg	2.00		116	81.4-118			
Toluene	2.30	0.050	mg/kg	2.00		115	88.7-121			
Ethylbenzene	2.26	0.050	mg/kg	2.00		113	86.1-120			
m,p-Xylene	4.66	0.100	mg/kg	4.00		116	88.2-124			
o-Xylene	2.26	0.050	mg/kg	2.00		113	84.9-118			
Total Xylenes	6.91	0.150	mg/kg	6.00		115	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.2	71.5-134			

LCS Dup (3053101-BSD1)

Prepared & Analyzed: 31-May-23

Benzene	2.23	0.050	mg/kg	2.00		112	81.4-118	4.18	15.8	
Toluene	2.21	0.050	mg/kg	2.00		110	88.7-121	4.14	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	86.1-120	4.79	16	
m,p-Xylene	4.42	0.100	mg/kg	4.00		110	88.2-124	5.31	16.2	
o-Xylene	2.12	0.050	mg/kg	2.00		106	84.9-118	6.05	16.7	
Total Xylenes	6.54	0.150	mg/kg	6.00		109	87.3-122	5.55	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.5	71.5-134			

Batch 3053102 - Volatiles**Blank (3053102-BLK1)**

Prepared & Analyzed: 31-May-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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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: EMPIRE ST SWD 15 #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
07-Jun-23 17:32

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 3053102 - Volatiles**Blank (3053102-BLK1)**

Prepared & Analyzed: 31-May-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	71.5-134			

LCS (3053102-BS1)

Prepared & Analyzed: 31-May-23

Benzene	2.02	0.050	mg/kg	2.00		101	81.4-118			
Toluene	2.10	0.050	mg/kg	2.00		105	88.7-121			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	86.1-120			
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	88.2-124			
o-Xylene	1.99	0.050	mg/kg	2.00		99.3	84.9-118			
Total Xylenes	6.17	0.150	mg/kg	6.00		103	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			

LCS Dup (3053102-BSD1)

Prepared & Analyzed: 31-May-23

Benzene	1.99	0.050	mg/kg	2.00		99.3	81.4-118	1.67	15.8	
Toluene	2.04	0.050	mg/kg	2.00		102	88.7-121	2.58	15.9	
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	86.1-120	2.23	16	
m,p-Xylene	4.10	0.100	mg/kg	4.00		103	88.2-124	1.94	16.2	
o-Xylene	1.99	0.050	mg/kg	2.00		99.5	84.9-118	0.217	16.7	
Total Xylenes	6.09	0.150	mg/kg	6.00		102	87.3-122	1.24	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			

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Analytical Results For:

PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS NM, 88242	Project: EMPIRE ST SWD 15 #1 Project Number: NONE GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 07-Jun-23 17:32
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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 3053107 - General Prep - Organics

Blank (3053107-BLK1)			Prepared & Analyzed: 31-May-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							
<i>Surrogate: 1-Chlorooctane</i>	43.3		mg/kg	49.6		87.5	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	50.7		mg/kg	50.0		101	49.1-148			
LCS (3053107-BS1)			Prepared & Analyzed: 31-May-23							
GRO C6-C10	173	10.0	mg/kg	200		86.5	78.5-124			
DRO >C10-C28	168	10.0	mg/kg	200		84.2	72.5-126			
Total TPH C6-C28	341	10.0	mg/kg	400		85.3	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	44.9		mg/kg	49.6		90.6	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	47.1		mg/kg	50.0		94.1	49.1-148			
LCS Dup (3053107-BSD1)			Prepared & Analyzed: 31-May-23							
GRO C6-C10	171	10.0	mg/kg	200		85.5	78.5-124	1.17	17.7	
DRO >C10-C28	167	10.0	mg/kg	200		83.5	72.5-126	0.826	21	
Total TPH C6-C28	338	10.0	mg/kg	400		84.5	77.6-123	0.998	18.5	
<i>Surrogate: 1-Chlorooctane</i>	44.9		mg/kg	49.6		90.5	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	47.1		mg/kg	50.0		94.2	49.1-148			

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Paragon Environmental
Project Manager: Chris Jones
Address: 1601 N. Turner St., Ste 500
City: Hobbs
Phone #: 575-964-7814
State: NM Zip: 88240

P.O. #:
Company: *SPOR*
Attn:
Address:
City:
State:
Zip:
Phone #:
Fax #:

Project #:
Project Name: *EMPRE-15*
Project Location: *Royal Edley ST SWD 15 #1*
Sampler Name: *Paul B. Patis*

Project Owner: *SPR*
City:
State:
Zip:
Phone #:
Fax #:

FOR LAB USE ONLY
Lab I.D. Sample I.D.
Date: *5/19/23*
Time:
Matrix:
Preserv:
Sampling:
Date:
Time:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
<i>H232736</i>	<i>SSW-1</i>	<i>2</i>		<input checked="" type="checkbox"/> GROUNDWATER			<i>5/19/23</i>		<i>TPH BTEX Chlorides</i>
	<i>SSW-2</i>			<input type="checkbox"/> WASTEWATER					
	<i>SSW-3</i>			<input type="checkbox"/> SOIL					
	<i>SSW-4</i>			<input type="checkbox"/> OIL					
	<i>SSW-1</i>			<input type="checkbox"/> SLUDGE					
	<i>NSW-2</i>			<input type="checkbox"/> OTHER:					
	<i>NSW-3</i>			<input type="checkbox"/> ACID/BASE:					
	<i>NSW-4</i>			<input type="checkbox"/> ICE / COOL					
	<i>SSW-1</i>			<input type="checkbox"/> OTHER:					
	<i>SSW-2</i>								

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Relinquished By: *[Signature]*
Date: *5-30*
Time: *1300*
Received By: *[Signature]*
Date:
Time:
CHECKED BY: *[Signature]*

Delivered By: (Circle One) *UPS* *413C-0-LE*
Sampler - UPS - Bus - Other: *35: #113*
Sample Condition: Cool Intact
Checked By: *[Signature]*

REMARKS:
Rush added 5/30/23
** Customer requested Name Change.*

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

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 229963

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 229963
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Variance Request for a Bentonite Clay Liner at 4 ft below ground surface is approved. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please include this e-mail correspondence in the remediation and/or closure report.	6/20/2023