



February 12, 2023

NMOCD District 2  
Mr. Mike Bratcher  
Artesia, NM 88210

**Re: Site Assessment, Remediation, and Closure Report**  
**Hawk 27 Fed #1**  
**API No. 30-015-29489**  
**GPS: Latitude 32.6297607 Longitude -104.4702301**  
**UL "J", Sec. 27, T19S, R25E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAPP2105646145**

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and remediation activities for the Release Site known as the Hawk 27 Fed 1 (Hawk). Details of the release are summarized below:

| Release Details   |                |  |                      |
|---|----------------|--|----------------------|
| <b>Type of Release:</b>   | Produced Water | <b>Volume of Release:</b>                    | 33 bbls              |
|   |                | <b>Volume Recovered:</b>                     | 0 bbls               |
| <b>Source of Release:</b>   | Plug Valve     | <b>Date of Release:</b>                      | 02/21/21             |
| <b>Was Immediate Notice Given?</b>  | Yes            | <b>If, Yes, to Whom?</b>                     | Mike Bratcher, NMOCD |
| <b>Was a Watercourse Reached?</b>   | No             | <b>If Yes, Volume Impacting Watercourse:</b> | N/A                  |
| <b>Surface Owner:</b>   | Private        | <b>Mineral Owner:</b>                        | Federal              |
| Cause of Release: At a 4' plug valve located next to the tank, the load line froze and split the valve causing a 33 bbl produced water release. |                |  |                      |

Topographical and Aerial Maps are provided in Figures #3 and #5. A copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) can be found in Appendix C.

## REGULATORY FRAMEWORK

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

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

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within ½ Mile of the Release Site. The data initially found on the State Engineers website showed that there was NO water data within a ½ mile radius. Due to a lack of water data, the spill was cleaned based on 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 Piedmont alluvial deposits (Holocene to lower Pleistocene)—Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits (QP). The soil in this area is made up of Reagan-Upton Association, with 0 to 9 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Hawk. (Figure #3).

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #4.

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

### INITIAL SITE ASSESSMENT & SOIL SAMPLING EVENT

On December 13, 2022, Paragon conducted an initial site assessment. During the initial site assessment, we obtained samples inside the containment where the spill happened and outside of the containment for horizontal delineation. The spill area measured approximately 50 feet long by 25 feet wide. Six (6) soil samples were collected in these areas in an effort to determine the vertical and horizontal extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

12-13-22 Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50') |             |                                |                                |     |     |     |                                 |                                 |
|---|-------------|--------------------------------|--------------------------------|-----|-----|-----|---------------------------------|---------------------------------|
| Sample Date 12-13-22  |             | Closure Criteria<br>≤ 50 mg/kg | Closure Criteria<br>≤ 10 mg/kg |     |     |     | Closure Criteria<br>≤ 100 mg/kg | Closure Criteria<br>≤ 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                              | 80                              |
|   | 1'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 64                              |
|   | 2'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 80                              |
|   | 3'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 64                              |
|   | 4'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 112                             |
| S-2   | 0-6"        | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
|   | 1'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 64                              |
|   | 2'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 112                             |
|   | 3'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 160                             |
|   | 4'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 80                              |
| S-3   | 0-6"        | ND                             | ND                             | ND  | ND  | ND  | ND                              | 64                              |
|   | 1'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
|   | 2'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
|   | 3'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
|   | 4'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 32                              |
| S-4   | 0-6"        | ND                             | ND                             | ND  | ND  | ND  | ND                              | 112                             |
|   | 1'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 112                             |
|   | 2'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 80                              |
|   | 3'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
|   | 4'          | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
| N. COMP   | 0-6"        | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
| S. COMP   | 0-6"        | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
| W. COMP   | 0-6"        | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |
| E. COMP   | 0-6"        | ND                             | ND                             | ND  | ND  | ND  | ND                              | 48                              |

ND-Analyte Not Detected

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

## REMEDIATION ACTIVITIES

Based on the lab results we received from Cardinal, it is our professional opinion that another company had already conducted remedial activities without submitting the closure report required. Due to the fact that the lab results were clean and under closure criteria, there was no further remediation required.

## CLOSURE REQUEST

After careful review, Paragon requests that this incident, NAPP2105646145, be closed. SPUR has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

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

Respectfully,



Tristan Jones  
Project Coordinator  
Paragon Environmental, LLC



Chris Jones  
Environmental Professional  
Paragon Environmental, LLC



## Attachments

### Figures:

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Aerial Map

### Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and FEMA Flood Map
- Appendix C – C-141
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Figures:

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

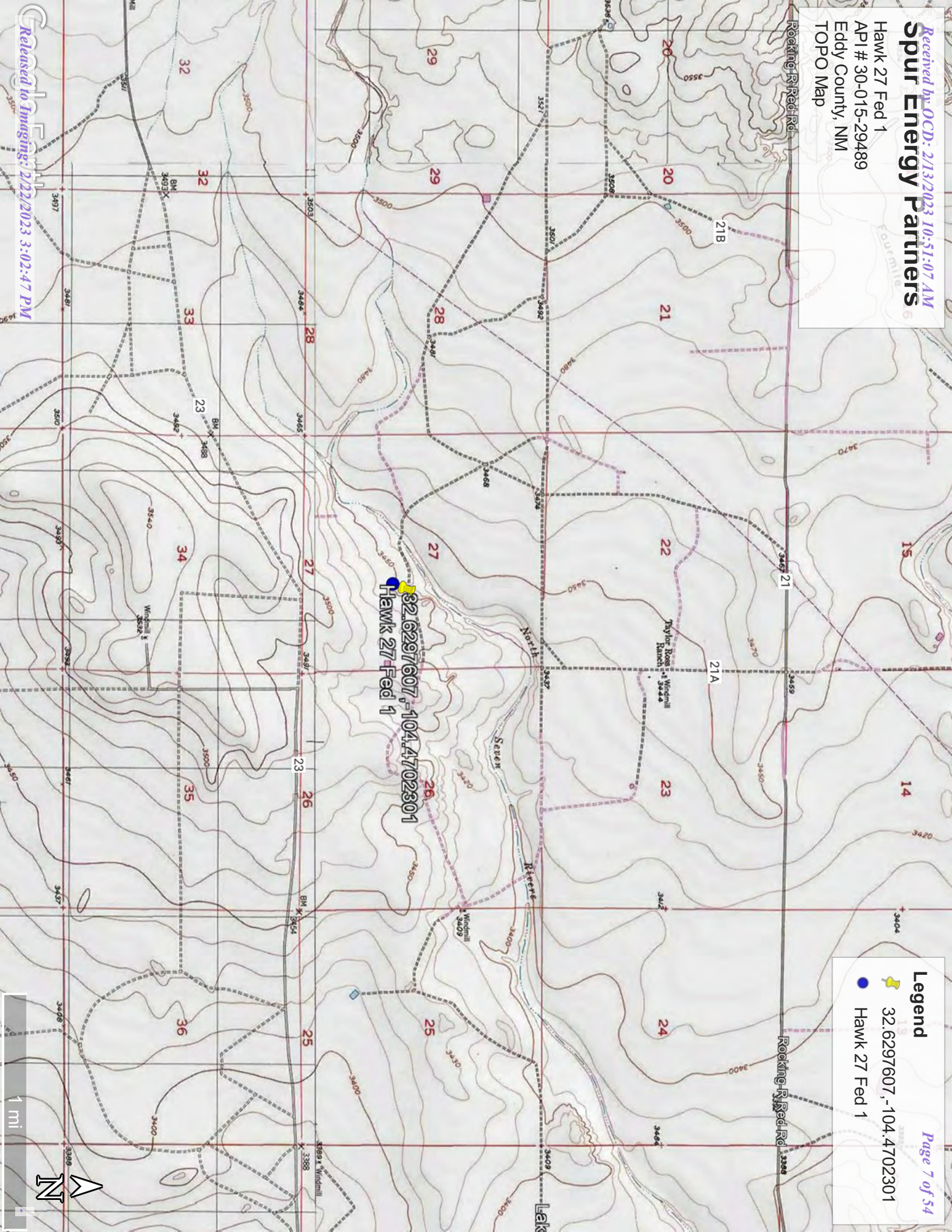


Hawk 27 Fed #1 32.6297607,-104.4702301





Hawk 27 Fed 1  
API # 30-015-29489  
Eddy County, NM  
TOPO Map



Legend






- 32.6297607, -104.4702301
- Hawk 27 Fed 1



# Spur Energy Partners

Hawk 27 Fed 1  
API # 30-015-29489  
Eddy County, NM  
Karst Map

## Legend

-  32.6297607,-104.4702301
-  Hawk 27 Fed 1
-  High
-  Low
-  Medium



Google Earth

Released to Imaging: 2/22/2023 3:02:47 PM

3000 ft







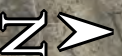
# Spur Energy Partners

Hawk 27 Fed 1  
API # 30-015-29489  
Eddy County, NM  
Aerial Map

## Legend

-  32.6297607, -104.4702301
-  Hawk 27 Fed 1

32.6297607, -104.4702301  
Hawk 27 Fed 1







Appendix A  
Referenced Water Data:

New Mexico State of Engineers Office





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

| POD Number               | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tw  | Rng | X      | Y        | Distance | DepthWell | DepthWater | Water Column |
|--------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| <a href="#">RA 03304</a> |      | RA            | ED     |      |      | 1   | 27  | 19S | 25E | 549081 | 3610973* | 863      | 130       | 60         | 70           |
| <a href="#">RA 08986</a> |      | RA            | ED     | 1    | 3    | 3   | 22  | 19S | 25E | 548825 | 3611507  | 1435     | 320       | 220        | 100          |
| Average Depth to Water:  |      |               |        |      |      |     |     |     |     |        |          |          |           | 140 feet   |              |
| Minimum Depth:           |      |               |        |      |      |     |     |     |     |        |          |          |           | 60 feet    |              |
| Maximum Depth:           |      |               |        |      |      |     |     |     |     |        |          |          |           | 220 feet   |              |

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 549695.862 Northing (Y): 3610366.564 Radius: 1600

\*UTM location was derived from PLSS - see Help

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



Appendix B  
Soil Survey:

U.S.D.A.  
FEMA Flood Map



Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### RE—Reagan-Upton association, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5d

*Elevation:* 1,100 to 5,400 feet

*Mean annual precipitation:* 6 to 14 inches

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

*Frost-free period:* 180 to 240 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Reagan and similar soils:* 70 percent

*Upton and similar soils:* 25 percent

*Minor components:* 5 percent

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

#### Description of Reagan

##### Setting

*Landform:* Fan remnants, alluvial fans

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Alluvium and/or eolian deposits

##### Typical profile

*H1 - 0 to 8 inches:* loam

*H2 - 8 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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*Hydrologic Soil Group:* B  
*Ecological site:* R042CY153NM - Loamy  
*Hydric soil rating:* No

## Description of Upton

### Setting

*Landform:* Ridges, fans  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

### Typical profile

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R042CY159NM - Shallow Loamy  
*Hydric soil rating:* No

## Minor Components

### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R070BC017NM - Bottomland



Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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*Hydric soil rating:* No

## Data Source Information

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

# National Flood Hazard Layer FIRMette



104°28'32"W 32°38'2"N



## Legend

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

### SPECIAL FLOOD HAZARD AREAS

|   |  |
|---|--|
|  | Without Base Flood Elevation (BFE)<br>Zone A, V, A99             |
|  | With BFE or Depth Zone AE, AO, AH, VE, AR<br>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



### OTHER AREAS OF FLOOD HAZARD


|   |  |
|---|--|
|  | Area with Flood Risk due to Levee Zone D |
|---|--|








### OTHER AREAS

|   |   |
|---|---|
|  | NO SCREEN<br>Area of Minimal Flood Hazard Zone X            |
|  | Effective LOMRs<br>Area of Undetermined Flood Hazard Zone D |




### GENERAL STRUCTURES

|   |                                  |
|---|----------------------------------|
|  | Channel, Culvert, or Storm Sewer |
|  | Levee, Dike, or Floodwall        |

|   |  |
|---|--|
|  | 20.2<br>Cross Sections with 1% Annual Chance Water Surface Elevation |
|---|--|

|   |                                 |
|---|---------------------------------|
|  | 8<br>Coastal Transect           |
|  | Base Flood Elevation Line (BFE) |
|  | Limit of Study                  |
|  | Jurisdiction Boundary           |
|  | Coastal Transect Baseline       |
|  | Profile Baseline                |
|  | Hydrographic Feature            |

### MAP PANELS

|   |                           |
|---|---------------------------|
|  | Digital Data Available    |
|  | No Digital Data Available |
|  | Unmapped                  |

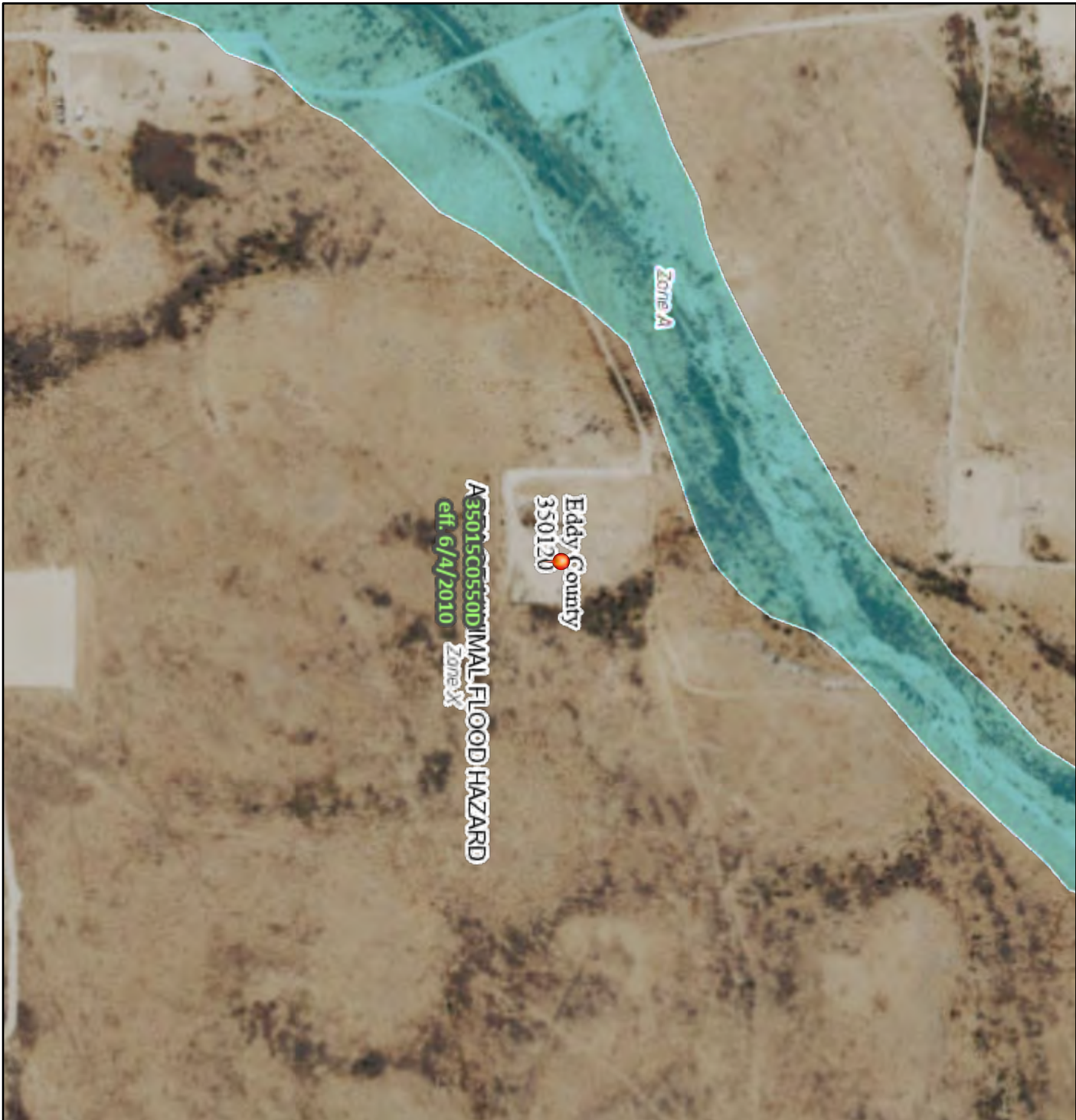


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/9/2023 at 1:25 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 unmoderized areas cannot be used for regulatory purposes.





Appendix C:

C-141



State of New Mexico  
Oil Conservation Division

Form C-141

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2105646145 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | 50 (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

**Characterization Report Checklist: Each of the following items must be included in the report.**

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan

## Oil Conservation Division

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2105646145 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release 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: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 2/13/2023

email: [katherine.purvis@spurenergy.com](mailto:katherine.purvis@spurenergy.com)

Telephone: 575-441-8619

**OCD Only**

Received by: Jocelyn Harimon

Date: 02/13/2023

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2105646145 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kathy Purvis.

Title: HSE Coordinator

Signature: Katherine Purvis

Date: 2/13/2023

email: [katherine.purvis@spurenergy.com](mailto:katherine.purvis@spurenergy.com)

Telephone: 575-441-8619

**OCD Only**

Received by: Jocelyn Harimon

Date: 02/13/2023

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

Closure Approved by: Jennifer Nobui Date: 02/22/2023

Printed Name: Jennifer Nobui

Title: Environmental Specialist A





Appendix D:  
Photographic Documentation



### Photographic Documentation









Appendix E:  
Laboratory Results



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

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December 16, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: HAWK 27

Enclosed are the results of analyses for samples received by the laboratory on 12/13/22 16:46.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 0-6 (H225884-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |
| Total BTX      | <0.300 | 0.300           | 12/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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             | 80.0   | 16.0            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.7 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 1 (H225884-02)**

| 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           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/15/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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             | 64.0   | 16.0            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 85.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.4 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 2 (H225884-03)**

| 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           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2022 | 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             | 80.0   | 16.0            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 3 (H225884-04)**

| 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           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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             | 64.0   | 16.0            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.5 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 4 (H225884-05)**

| 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           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2022 | 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             | 112    | 16.0            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 88.5 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 0-6 (H225884-06)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |
| Total BTX      | <0.300 | 0.300           | 12/15/2022 | 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             | 48.0   | 16.0            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.1 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 1 (H225884-07)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |  |
| Total BTX      | <0.300 | 0.300           | 12/15/2022 | 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            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 86.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.7 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 2 (H225884-08)**

| 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           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/15/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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             | 112    | 16.0            | 12/15/2022 | 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            | 12/15/2022 | ND              | 209 | 105        | 200           | 0.660 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 200 | 100        | 200           | 2.11  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.5 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 3 (H225884-09)**

| 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           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.98 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2022 | ND               | 2.11 | 106        | 2.00          | 3.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2022 | ND               | 2.09 | 104        | 2.00          | 3.90 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2022 | ND               | 6.50 | 108        | 6.00          | 5.36 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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             | 160    | 16.0            | 12/15/2022 | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 4 (H225884-10)**

| 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           | 12/14/2022 | ND              | 2.08 | 104        | 2.00          | 2.76 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/14/2022 | ND              | 2.17 | 108        | 2.00          | 2.88 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2022 | ND              | 2.12 | 106        | 2.00          | 2.73 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2022 | ND              | 6.58 | 110        | 6.00          | 3.35 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/14/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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             | 80.0   | 16.0            | 12/15/2022 | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 0-6 (H225884-11)**

| 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           | 12/14/2022 | ND              | 2.08 | 104        | 2.00          | 2.76 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/14/2022 | ND              | 2.17 | 108        | 2.00          | 2.88 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2022 | ND              | 2.12 | 106        | 2.00          | 2.73 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2022 | ND              | 6.58 | 110        | 6.00          | 3.35 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/14/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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            | 12/15/2022 | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 1 (H225884-12)**

| 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           | 12/14/2022 | ND              | 2.08 | 104        | 2.00          | 2.76 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/14/2022 | ND              | 2.17 | 108        | 2.00          | 2.88 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2022 | ND              | 2.12 | 106        | 2.00          | 2.73 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2022 | ND              | 6.58 | 110        | 6.00          | 3.35 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/14/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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            | 12/15/2022 | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 2 (H225884-13)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/14/2022 | ND              | 2.08 | 104        | 2.00          | 2.76 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/14/2022 | ND              | 2.17 | 108        | 2.00          | 2.88 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2022 | ND              | 2.12 | 106        | 2.00          | 2.73 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2022 | ND              | 6.58 | 110        | 6.00          | 3.35 |           |  |
| Total BTX      | <0.300 | 0.300           | 12/14/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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            | 12/15/2022 | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 3 (H225884-14)**

| 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           | 12/14/2022 | ND              | 2.08 | 104        | 2.00          | 2.76 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/14/2022 | ND              | 2.17 | 108        | 2.00          | 2.88 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2022 | ND              | 2.12 | 106        | 2.00          | 2.73 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2022 | ND              | 6.58 | 110        | 6.00          | 3.35 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/14/2022 | 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             | 48.0   | 16.0            | 12/15/2022 | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 4 (H225884-15)**

| 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           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/16/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 0-6 (H225884-16)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |
| Total BTX      | <0.300 | 0.300           | 12/16/2022 | 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             | 112    | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/14/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 89.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 1 (H225884-17)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |
| Total BTX      | <0.300 | 0.300           | 12/16/2022 | 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             | 112    | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 85.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.5 % 46.3-178

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 2 (H225884-18)**

| 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           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |
| Total BTEX     | <0.300 | 0.300           | 12/16/2022 | 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             | 80.0   | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 3 (H225884-19)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |
| Total BTX      | <0.300 | 0.300           | 12/16/2022 | 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             | 48.0   | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.9 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 4 (H225884-20)**

| 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           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/16/2022 | 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             | 48.0   | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: N - COMP (H225884-21)**

| 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           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/16/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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             | 48.0   | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - COMP (H225884-22)**

| 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           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |
| Total BTEx     | <0.300 | 0.300           | 12/16/2022 | 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             | 48.0   | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 74.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.8 % 46.3-178

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W - COMP (H225884-23)**

| 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           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/16/2022 | 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             | 48.0   | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 81.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 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: 12/13/2022  
 Reported: 12/16/2022  
 Project Name: HAWK 27  
 Project Number: NOT GIVEN  
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E - COMP (H225884-24)**

| 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           | 12/16/2022 | ND              | 2.13 | 106        | 2.00          | 6.90 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/16/2022 | ND              | 2.24 | 112        | 2.00          | 7.13 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/16/2022 | ND              | 2.19 | 109        | 2.00          | 6.92 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/16/2022 | ND              | 6.70 | 112        | 6.00          | 6.58 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/16/2022 | 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             | 48.0   | 16.0            | 12/15/2022 | ND              | 432 | 108        | 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            | 12/15/2022 | ND              | 203 | 102        | 200           | 8.37 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2022 | ND              | 201 | 101        | 200           | 13.0 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 46.3-178

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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

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Celey D. Keene, Lab Director/Quality Manager





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|                                     |  |                   |  |         |  |                  |  |
|-------------------------------------|--|-------------------|--|---------|--|------------------|--|
| Company Name: Paragon Environmental |  | P.O. #:           |  | BILL TO |  | ANALYSIS REQUEST |  |
| Project Manager: Cason Spurlock     |  | Company: Sfr Envr |  |         |  |                  |  |
| Address: 5002 Carriage Rd           |  | Attn:             |  |         |  |                  |  |
| City: Hobbs                         |  | Address:          |  |         |  |                  |  |
| Phone #: 575-631-6977               |  | City:             |  |         |  |                  |  |
| Fax #:                              |  | State:            |  |         |  |                  |  |
| Project #: 27                       |  | Zip:              |  |         |  |                  |  |
| Project Location: Rye 1 Edg         |  | Phone #:          |  |         |  |                  |  |
| Sampler Name: Fred O. Ken           |  | Fax #:            |  |         |  |                  |  |

| FOR LAB USE ONLY |             | MATRIX            |              | PRESERV.    |            | SAMPLING |     |
|------------------|-------------|-------------------|--------------|-------------|------------|----------|-----|
| Lab I.D.         | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL     | OIL |
| 1                | S-1 0-6     | ✓                 |              |             |            |          |     |
| 2                | S-1 1       |                   |              |             |            |          |     |
| 3                | S-1 2       |                   |              |             |            |          |     |
| 4                | S-1 3       |                   |              |             |            |          |     |
| 5                | S-1 4       |                   |              |             |            |          |     |
| 6                | S-2 0-6     |                   |              |             |            |          |     |
| 7                | S-2 1       |                   |              |             |            |          |     |
| 8                | S-2 2       |                   |              |             |            |          |     |
| 9                | S-2 3       |                   |              |             |            |          |     |
| 10               | S-2 4       |                   |              |             |            |          |     |

| DATE  | TIME | Chlorides | TPH | BTEX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------|------|-----------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 12/13 |      |           |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |   |
|--|---|
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| Relinquished By: Amy O. Ken  | Date: 12/13<br>Time: 10:40<br>Received By: Sfr Envr<br>Date: _____<br>Time: _____   |
| Relinquished By:   | Received By:  |
| Delivered By: (Circle One) 2.4: K.O.C.   | Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Pres <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Sampler - UPS - Bus - Other: 18. #113  | CHECKED BY: (Initials) OR   |
| REMARKS:   |   |



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|   |  |                             |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
|---|--|-----------------------------|--|---------------------------------|--|---|--|--|--|----------------|--|----------|--|-----|--|--------|--|---------|--|------------|--|------------|--|---------|--|--------------|--|------|--|------------------|--|--|--|--|--|--|--|--|--|
| Company Name: Paragon Environmental   |  | <b>BILL TO</b>              |  | ANALYSIS REQUEST                |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Project Manager: Cason Spurlock   |  | P.O. #:                     |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Address: 5002 Carriage Rd   |  | Company: <i>Shir Energy</i> |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| City: Hobbs   |  | Attn:                       |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| State: NM zip: 88242  |  | Address:                    |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Phone #: 575-631-6977   |  | City:                       |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Fax #:  |  | State:                      |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Project #:  |  | Zip:                        |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Project Name: <i>Hawk 27</i>  |  | Phone #:                    |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Project Location: <i>Paral Edg</i>  |  | Fax #:                      |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Sampler Name: <i>Angela D. Pinc</i>   |  | 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 |  |                  |  |  |  |  |  |  |  |  |  |
| <i>HA25884</i>  |  | <i>5-3 0-6</i>              |  | <i>4</i>                        |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  | <i>12/13</i> |  |      |  | <i>Chlorides</i> |  |  |  |  |  |  |  |  |  |
| <i>12</i>   |  | <i>5-3 1</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  | <i>TPH</i>       |  |  |  |  |  |  |  |  |  |
| <i>13</i>   |  | <i>5-3 3</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  | <i>BTEX</i>      |  |  |  |  |  |  |  |  |  |
| <i>14</i>   |  | <i>5-3 4</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| <i>15</i>   |  | <i>5-3 0-6</i>              |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| <i>16</i>   |  | <i>5-4 1</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| <i>17</i>   |  | <i>5-4 2</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| <i>18</i>   |  | <i>5-4 3</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| <i>19</i>   |  | <i>5-4 4</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| <i>20</i>   |  | <i>5-4 4</i>                |  |                                 |  |   |  |  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
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| Relinquished By: <i>Angela D. Pinc</i>  |  | Date: <i>2/13/23</i>        |  | Received By: <i>Shir Energy</i> |  | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No          |  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | Add'l Phone #: |  | REMARKS: |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Delivered By: (Circle One) <i>UPS</i>   |  | Time: <i>0.8: #113</i>      |  | Time: <i>0.8: #113</i>          |  | Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact |  | CHECKED BY: <i>GP</i>  |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other: <i>0.8: #113</i>   |  |                             |  |                                 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No                        |  | <input type="checkbox"/> Yes <input type="checkbox"/> No             |  |                |  |          |  |     |  |        |  |         |  |            |  |            |  |         |  |              |  |      |  |                  |  |  |  |  |  |  |  |  |  |

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





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|   |  |                      |  |   |  |   |  |   |  |   |  |
|---|--|----------------------|--|---|--|---|--|---|--|---|--|
| Company Name: Paragon Environmental   |  |                      |  | P.O. #:   |  |   |  | ANALYSIS REQUEST  |  |   |  |
| Project Manager: Cason Spurlock   |  |                      |  | Company: <i>Spr Energy</i>  |  |   |  |   |  |   |  |
| Address: 5002 Carriage Rd   |  |                      |  | Attn:   |  |   |  |   |  |   |  |
| City: Hobbs   |  |                      |  | Address:  |  |   |  |   |  |   |  |
| State: NM Zip: 88242  |  |                      |  | City:   |  |   |  |   |  |   |  |
| Phone #: 575-631-6977 Fax #:  |  |                      |  | State: Zip:   |  |   |  |   |  |   |  |
| Project #:  |  |                      |  | Project Owner: <i>Spr Energy</i>  |  |   |  |   |  |   |  |
| Project Name: <i>Hack 27</i>  |  |                      |  | Phone #:  |  |   |  |   |  |   |  |
| Project Location: <i>Avril Eddy</i>   |  |                      |  | Fax #:  |  |   |  |   |  |   |  |
| Sampler Name: <i>Paul O. Ellis</i>  |  |                      |  |   |  |   |  |   |  |   |  |
| FOR LAB USE ONLY  |  |                      |  |   |  |   |  |   |  |   |  |
| Lab I.D.  |  | Sample I.D.          |  | (G)RAB OR (C)OMP.   |  | DATE  |  | TIME  |  |   |  |
|   |  |                      |  | # CONTAINERS  |  |   |  |   |  |   |  |
| HA5584  |  | AL-COMP              |  | 1   |  | 12/3  |  | 1   |  |   |  |
|   |  |                      |  |   |  |   |  |   |  |   |  |
| 21  |  | 5-COMP               |  | 1   |  |   |  |   |  |   |  |
|   |  |                      |  |   |  |   |  |   |  |   |  |
| 22  |  | W-COMP               |  | 1   |  |   |  |   |  |   |  |
|   |  |                      |  |   |  |   |  |   |  |   |  |
| 23  |  | E-COMP               |  | 1   |  |   |  |   |  |   |  |
|   |  |                      |  |   |  |   |  |   |  |   |  |
| 24  |  |                      |  |   |  |   |  |   |  |   |  |
|   |  |                      |  |   |  |   |  |   |  |   |  |
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| Relinquished By: <i>Paul O. Ellis</i>   |  | Date: <i>12/3/02</i> |  | Received By: <i>Shadigang</i>   |  | Date: <i>12/3/02</i>  |  | Time: <i>1:45</i>   |  | CHECKED BY: <i>SR</i>   |  |
| Relinquished By:  |  | Date:                |  | Received By:  |  | Date:   |  | Time:   |  | CHECKED BY:   |  |
| Delivered By: (Circle One) <i>1.41C-O.V.</i>  |  | Sample Condition     |  | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> |  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> |  | Add'l Phone #: <input type="checkbox"/> Add'l Fax #: <input type="checkbox"/> |  |
| Sampler - UPS - Bus - Other: <i>0.81C-H13</i>   |  | Sample Condition     |  | Cool <input type="checkbox"/> Intact <input type="checkbox"/>                       |  | Yes <input type="checkbox"/> No <input type="checkbox"/>            |  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> |  | Add'l Phone #: <input type="checkbox"/> Add'l Fax #: <input type="checkbox"/> |  |
| REMARKS:  |  |                      |  |   |  |   |  |   |  |   |  |
| <div style="float: right; width: 200px;"> <i>BTEX</i><br/> <i>Chlorides</i><br/> <i>TPH</i> </div>  |  |                      |  |   |  |   |  |   |  |   |  |

**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 185487

CONDITIONS

|   |   |
|---|---|
| Operator:<br>Spur Energy Partners LLC<br>9655 Katy Freeway<br>Houston, TX 77024 | OGRID:<br>328947  |
|   | Action Number:<br>185487                                  |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                | Condition Date |
|------------|--------------------------|----------------|
| jnobui     | Closure Report Approved. | 2/22/2023      |