

CARMONA RESOURCES



## SITE INFORMATION

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### Work Plan

**Diamondback 22 State Com 002H (07.09.22)**

**Incident # NAPP2220251441**

**Eddy County, New Mexico**

**Unit D Sec 22 T26S R28E**

**32.032412°, -104.080534°**

### Produced Water Release

**Point of Release: Flowline failure due to corrosion**

**Release Date: 07.09.2022**

**Volume Released: 3 barrels of Produced Water**

**Volume Recovered: 0 barrels of Produced Water**

CARMONA RESOURCES



### Prepared for:

**Concho Operating, LLC**

**15 West London Road**

**Loving, New Mexico 88256**

### Prepared by:

**Carmona Resources, LLC**

**310 West Wall Street**

**Suite 415**

**Midland, Texas 79701**

310 West Wall Street, Suite 415  
Midland TX, 79701  
432.813.1992



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September 5, 2022

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

**Re: Work Plan**  
**Diamondback 22 State Com 002H (07.09.22)**  
**Concho Operating, LLC**  
**Incident # NAPP2220251441**  
**Site Location: Unit D, S22, T26S, R28E**  
**(Lat 32.032412°, Long -104.080534°)**  
**Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Diamondback 22 State Com 002H (07.09.22). The site is located at 32.032412°, -104.080534° within Unit D, S22, T26S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

### **1.0 Site information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 9, 2022, from a flowline failure due to corrosion. It resulted in the release of approximately three (3) barrels of produced water, and zero (0) barrels were recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

### **2.0 Site Characterization and Groundwater**

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.27 miles Southwest of the site in S22, T26S, R28E and was drilled in 1961. The well has a reported depth to groundwater of 120' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

On November 16, 2021, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 59' below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 59' below the surface. The coordinates for the groundwater determination bore are 32.03314°, -104.08201. See Appendix D for the log.

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### **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 10,000 mg/kg.

### **4.0 Site Assessment Activities**

#### **Initial Assessment**

On July 21, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) sample points and four (4) horizontal samples were advanced to depths ranging from the surface to 3.5' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical delineation was not achieved due to the dense layer encountered. Refer to Table 1.

#### **Horizontal Delineation**

The areas of H-1 through H-4 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

### **5.0 Proposed Work Plan**

Based on the analytical data and the detected chloride concentrations, Concho proposes to remediate the areas shown in Figure 4 and highlighted (blue) in Table 1.

- The area of S-1 will be excavated to a depth of 4.5' to 7' below the surface and backfilled with clean material to grade. Or until vertical delineation is achieved.
- The area of S-2 will be excavated to a depth of 2.5' below the surface and backfilled with clean material to grade.
- An estimated 105 cubic yards will be removed and hauled to the nearest disposal, based on the maximum depth. However, it is subject to change if vertical delineation is achieved sooner.
- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The affected areas in the pasture will be seeded with the appropriate seed mixture. The remediation will be implemented 90 days after the work plan is approved.



- Impacted soil around oil and gas equipment, structures, or lines may not be removed during remediation activities due to safety concerns for the onsite personnel. However, COG will excavate the impacted soils to the maximum extent possible.

## **6.0 Conclusions**

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, don't hesitate to contact us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

A handwritten signature in black ink, appearing to read "Mike Carmona".

Mike Carmona  
Environmental Manager

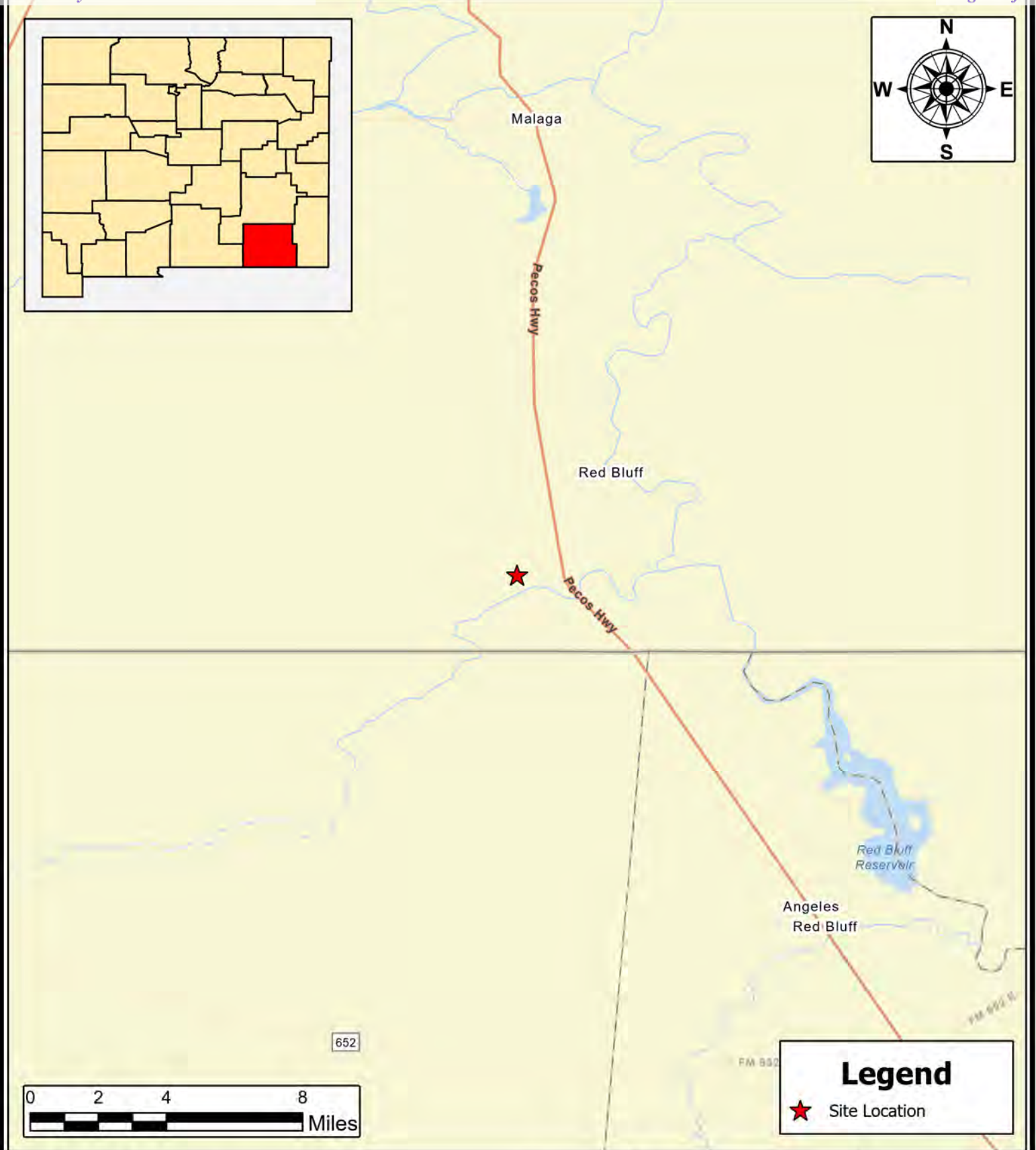
A handwritten signature in black ink, appearing to read "Conner Moehring".

Conner Moehring  
Sr. Project Manager

## FIGURES

CARMONA RESOURCES



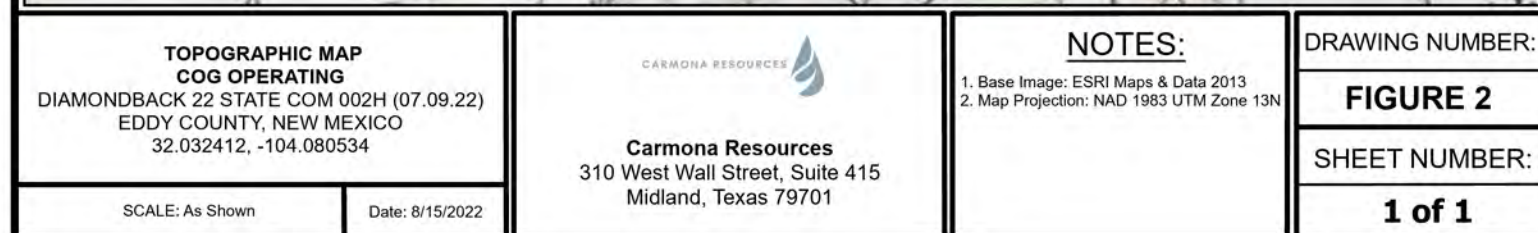


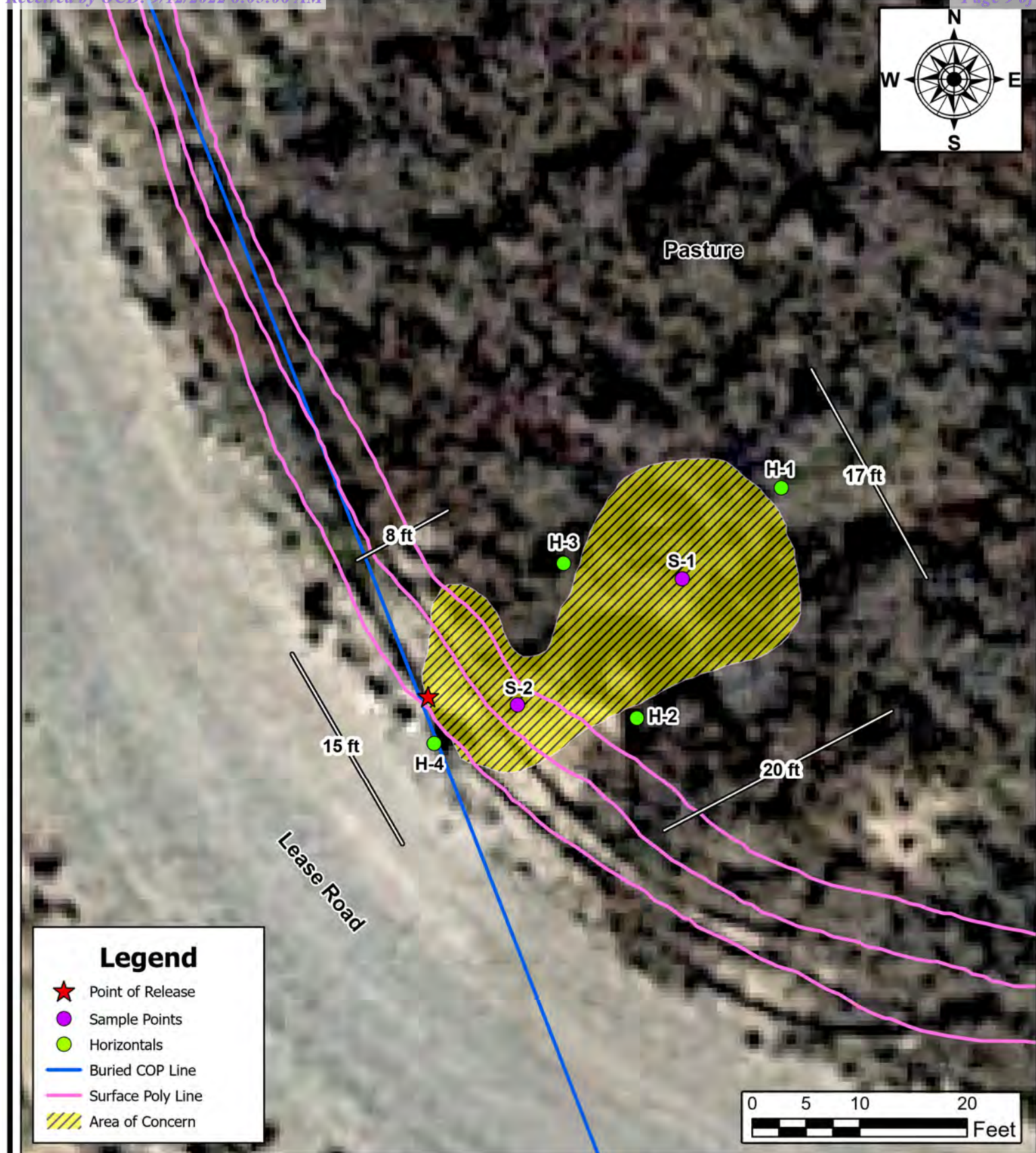
|                                                                                                                                              |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>OVERVIEW MAP</b><br><b>COG OPERATING</b><br>DIAMONDBACK 22 STATE COM 002H (07.09.22)<br>EDDY COUNTY, NEW MEXICO<br>32.032412, -104.080534 |                 |
| SCALE: As Shown                                                                                                                              | Date: 8/15/2022 |

|                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Carmona Resources</b><br>310 West Wall Street, Suite 415<br>Midland, Texas 79701 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| <b>NOTES:</b><br>1. Base Image: ESRI Maps & Data 2013<br>2. Map Projection: NAD 1983 UTM Zone 13N |
|---------------------------------------------------------------------------------------------------|

|                 |
|-----------------|
| DRAWING NUMBER: |
| <b>FIGURE 1</b> |
| SHEET NUMBER:   |
| <b>1 of 1</b>   |





**SAMPLE LOCATION MAP  
COG OPERATING**

DIAMONDBACK 22 STATE COM 002H (07.09.22)  
EDDY COUNTY, NEW MEXICO  
32.032412, -104.080534

SCALE: As Shown

Date: 8/15/2022



**Carmona Resources**  
310 West Wall Street, Suite 415  
Midland, Texas 79701

**NOTES:**

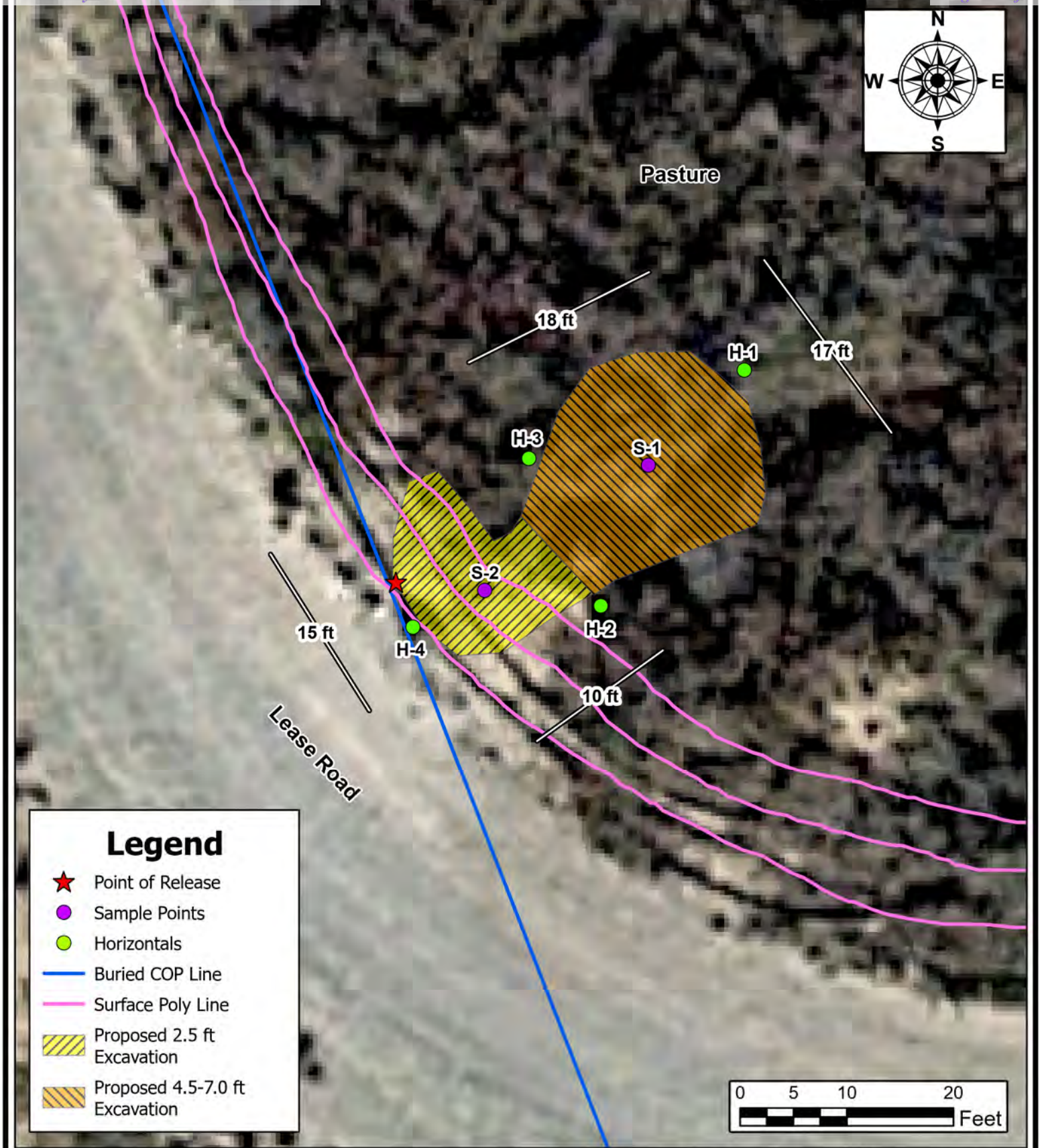
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**



|                                                                                                                                                                          |                        |                                                                                                                                                                                      |                                                                                                                       |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------|
| <p><b>PROPOSED EXCAVATION DEPTH MAP</b><br/><b>COG OPERATING</b><br/>DIAMONDBACK 22 STATE COM 002H (07.09.22)<br/>EDDY COUNTY, NEW MEXICO<br/>32.032412, -104.080534</p> |                        | <p><br/><b>Carmona Resources</b><br/>310 West Wall Street, Suite 415<br/>Midland, Texas 79701</p> | <p><u><b>NOTES:</b></u><br/>1. Base Image: ESRI Maps &amp; Data 2013<br/>2. Map Projection: NAD 1983 UTM Zone 13N</p> | <p>DRAWING NUMBER:</p> |
|                                                                                                                                                                          |                        |                                                                                                                                                                                      |                                                                                                                       | <p><b>FIGURE 4</b></p> |
| <p>SCALE: As Shown</p>                                                                                                                                                   | <p>Date: 8/15/2022</p> |                                                                                                                                                                                      |                                                                                                                       | <p>SHEET NUMBER:</p>   |
|                                                                                                                                                                          |                        |                                                                                                                                                                                      |                                                                                                                       | <p><b>1 of 1</b></p>   |

## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**COG**  
**Diamondback 22 State Com 002H (07.09.22)**  
**Eddy County, New Mexico**

| Sample ID                              | Date      | Depth (ft) | TPH (mg/kg)        |              |            |                    | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg)    |
|----------------------------------------|-----------|------------|--------------------|--------------|------------|--------------------|-----------------|-----------------|----------------------|----------------|--------------------|---------------------|
|                                        |           |            | GRO                | DRO          | MRO        | Total              |                 |                 |                      |                |                    |                     |
| <b>S-1</b>                             | 7/21/2022 | 0-1'       | <b>2,120</b>       | <b>3,580</b> | <b>385</b> | <b>6,090</b>       | 2.18            | 16.0            | 5.95                 | 36.1           | <b>60.2</b>        | <b>684</b>          |
|                                        | "         | 1.5'       | <b>1,490</b>       | <b>2,120</b> | <b>201</b> | <b>3,810</b>       | 9.27            | <b>72.9</b>     | 11.6                 | <b>110</b>     | <b>196</b>         | <b>756</b>          |
|                                        | "         | 2.0'       | <b>1,230</b>       | <b>1,820</b> | <b>179</b> | <b>3,230</b>       | <b>11.3</b>     | <b>64.8</b>     | 13.1                 | <b>106</b>     | <b>189</b>         | <b>14,300</b>       |
|                                        | "         | 2.5'       | <b>1,800</b>       | <b>2,370</b> | <b>255</b> | <b>4,430</b>       | <b>14.9</b>     | <b>107</b>      | 24.7                 | <b>158</b>     | <b>305</b>         | <b>14,700</b>       |
|                                        | "         | 3.0'       | <b>2,600</b>       | <b>3,370</b> | <b>331</b> | <b>6,300</b>       | <b>17.7</b>     | <b>106</b>      | 19.8                 | <b>162</b>     | <b>306</b>         | <b>14,400</b>       |
|                                        | "         | 3.5'       | <b>3,370</b>       | <b>4,400</b> | <b>471</b> | <b>8,240</b>       | <b>32.4</b>     | <b>129</b>      | 29.8                 | <b>169</b>     | <b>360</b>         | <b>13,500</b>       |
| <b>S-2</b>                             | 7/21/2022 | 0-1'       | <b>321</b>         | <b>3,230</b> | <b>321</b> | <b>3,870</b>       | <0.00202        | 0.00206         | 0.0101               | 0.208          | 0.220              | <b>5,460</b>        |
|                                        | "         | 1.5'       | <49.8              | <b>598</b>   | 60.1       | <b>658</b>         | <0.00200        | <0.00200        | <0.00200             | 0.0228         | 0.0228             | <b>654</b>          |
|                                        | "         | 2.0'       | 55.2               | <b>628</b>   | 50.8       | <b>734</b>         | <0.00198        | <0.00198        | <0.00198             | 0.0356         | 0.0356             | <b>1,420</b>        |
|                                        | "         | 2.5'       | <49.8              | 75.1         | <49.8      | 75.1               | <0.00201        | <0.00201        | <0.00201             | <0.00402       | <0.00402           | 120                 |
| <b>H-1</b>                             | 7/21/2022 | 0-0.5'     | <50.0              | <50.0        | <50.0      | <50.0              | <0.00200        | <0.00200        | <0.00200             | <0.00399       | <0.00399           | 13.2                |
| <b>H-2</b>                             | 7/21/2022 | 0-0.5'     | <49.9              | <49.9        | <49.9      | <49.9              | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 11.8                |
| <b>H-3</b>                             | 7/21/2022 | 0-0.5'     | <49.9              | <49.9        | <49.9      | <49.9              | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 11.5                |
| <b>H-4</b>                             | 7/21/2022 | 0-0.5'     | <50.0              | <50.0        | <50.0      | <50.0              | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 18.0                |
| <b>Regulatory Criteria<sup>A</sup></b> |           |            | <b>1,000 mg/kg</b> |              |            | <b>2,500 mg/kg</b> | <b>10 mg/kg</b> | -               | -                    | -              | <b>50 mg/kg</b>    | <b>10,000 mg/kg</b> |

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft - feet

(S) - Sample Point

(H) - Horizontal

 Proposed Excavation

## APPENDIX B

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

Concho Operating, LLC

## Photograph No. 1

**Facility:** Diamondback 22 State Com 002H  
(07.09.22)

**County:** Eddy County, New Mexico

**Description:**

View Northeast, area of sample point (1).



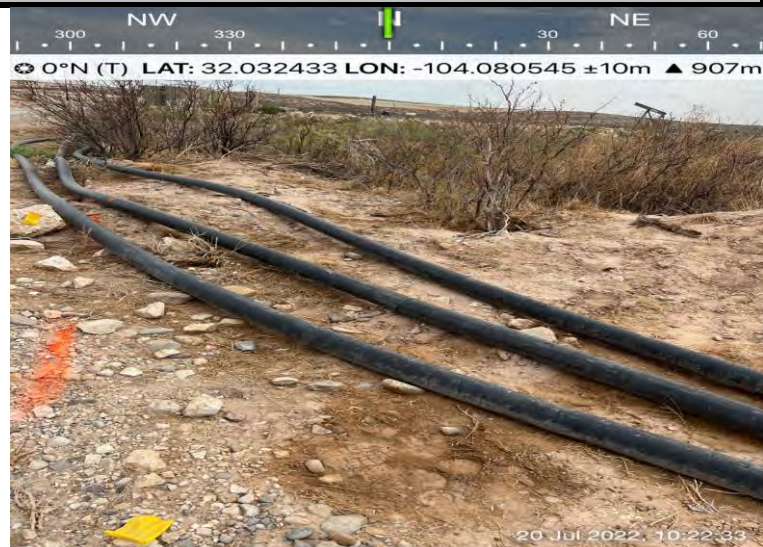
## Photograph No. 2

**Facility:** Diamondback 22 State Com 002H  
(07.09.22)

**County:** Eddy County, New Mexico

**Description:**

View North, area of sample point (2).



## APPENDIX C

CARMONA RESOURCES



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

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

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

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

## Release Notification

### Responsible Party

|                         |                              |
|-------------------------|------------------------------|
| Responsible Party       | OGRID                        |
| Contact Name            | Contact Telephone            |
| Contact email           | Incident # (assigned by OCD) |
| Contact mailing address |                              |

### Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                      |
|-------------------------|----------------------|
| Site Name               | Site Type            |
| Date Release Discovered | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
|             |         |          |       |        |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

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

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

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

### Initial Response

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <input type="checkbox"/> The source of the release has been stopped.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| <input type="checkbox"/> The impacted area has been secured to protect human health and the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
| <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |
| <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| If all the actions described above have <u>not</u> been undertaken, explain why:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                         |
| Printed Name _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Title: _____            |
| Signature: <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date: _____             |
| email: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Telephone: _____        |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| Received by: <u>Jocelyn Harimon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date: <u>07/21/2022</u> |

NAPP2220251441

| L48 Spill Volume Estimate Form                           |              |                  |             |                               |                                      |                                        |                                                 |                                              |                                                                |
|----------------------------------------------------------|--------------|------------------|-------------|-------------------------------|--------------------------------------|----------------------------------------|-------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| Facility Name & Number:                                  |              | Diamondback 22-2 |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Asset Area:                                              |              | DBWN             |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Release Discovery Date & Time:                           |              | 7.9.22           |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Release Type:                                            |              | Produced Water   |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Provide any known details about the event:               |              | Poly line leak   |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Spill Calculation - Subsurface Spill - Rectangle         |              |                  |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Was the release on pad or off-pad?                       |              |                  |             | See reference table below     |                                      |                                        |                                                 |                                              |                                                                |
| Has it rained at least a half inch in the last 24 hours? |              |                  |             | See reference table below     |                                      |                                        |                                                 |                                              |                                                                |
| Convert Irregular shape into a series of rectangles      | Length (ft.) | Width (ft.)      | Depth (in.) | Soil Spilled-Fluid Saturation | Estimated volume of each area (bbl.) | Total Estimated Volume of Spill (bbl.) | Percentage of Oil if Spilled Fluid is a Mixture | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
| Rectangle A                                              | 20.0         | 40.0             | 2.00        | 13.63%                        | 23.733                               | 3.235                                  |                                                 |                                              |                                                                |
| Rectangle B                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle C                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle D                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle E                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle F                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle G                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle H                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle I                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle J                                              |              |                  |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Total Volume Release:                                    |              |                  |             |                               |                                      | 3.235                                  |                                                 |                                              |                                                                |

**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 127878

CONDITIONS

|                                                                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137                                          |
|                                                                           | Action Number:<br>127878                                  |
|                                                                           | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon   | None      | 7/21/2022      |

|                |  |
|----------------|--|
| Incident ID    |  |
| 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?                                                                                                           | _____ (ft bgs)                                           |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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

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

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

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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

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

Signature: Jacqueline Harimon Date: 9.8.22

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**Received by: Jocelyn Harimon Date: 09/12/2022

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

## Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

Signature: Jacqueline Harimon Date: 9.8.22

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**Received by: Jocelyn Harimon Date: 09/12/2022☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Jennifer Nobui Date: \_\_\_\_\_

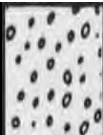
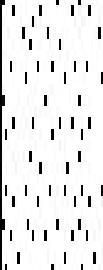
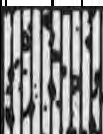
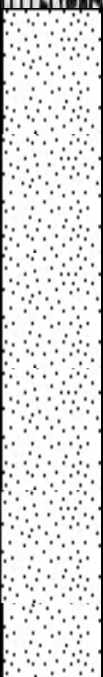
## APPENDIX D

CARMONA RESOURCES



|  |  |
|--|--|
|  |  |
|--|--|

|                |                                            |           |                             |
|----------------|--------------------------------------------|-----------|-----------------------------|
| Project Name : | <u>Diamondback 22 State 2H(08.30.2021)</u> | Date :    | <u>November 16, 2021</u>    |
| Project No. :  | <u>214634</u>                              | Sampler : | <u>Clint Merritt</u>        |
| Location :     | <u>Eddy Co, New Mexico</u>                 | Driller : | <u>Scarborough Drilling</u> |
| Coordinates :  | <u>32.03314°, -104.08201°</u>              | Method :  | <u>Air Rotary</u>           |
| Elevation :    | <u>2,991'</u>                              |           |                             |

| Depth (ft.) | WL | Soil Description                                                                                     | Lithology                                                                           | Depth (ft.) | WL | Soil Description                                                   | Lithology                                                                           |
|-------------|----|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|----|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 0           |    | (0') - Yellowish Orange/White well graded gravel with <50% coarse sand and caliche (GW). Dry         |    | 50          |    | (50') - Light brown soft clay with <50% fine loose sand (CL). Dry  |  |
| 5           |    | (5') - Light reddish brown loose, medium sand with <50% fine well cemented gravel (SW). Dry          |    | 55          |    |                                                                    |                                                                                     |
| 10          |    | (10') - Light reddish brown/ white loose fine sand with <25% fine well cemented gravel (SW). Dry     |   | 60          |    | (59') - Light brown soft clay with 50% fine loose sand (CL). Moist |                                                                                     |
| 15          |    |                                                                                                      |                                                                                     | 65          |    |                                                                    |                                                                                     |
| 20          |    | (20') - Light brown loose fine sand with <25% fine poorly cemented gravel and trace gypsum (SM). Dry |  | 70          |    |                                                                    |                                                                                     |
| 25          |    | (25') - White fine very loose sand with 100% gypsum (ML). Dry                                        |  | 75          |    |                                                                    |                                                                                     |
| 30          |    |                                                                                                      |                                                                                     | 80          |    |                                                                    |                                                                                     |
| 35          |    |                                                                                                      |                                                                                     | 85          |    |                                                                    |                                                                                     |
| 40          |    |                                                                                                      |                                                                                     | 90          |    |                                                                    |                                                                                     |
| 45          |    |                                                                                                      |                                                                                     | 95          |    |                                                                    |                                                                                     |
| 50          |    |                                                                                                      |                                                                                     | 100         |    |                                                                    |                                                                                     |

Comments : Total Depth 59' bgs  
Drilling Terminated @ 14:00 CT No groundwater present

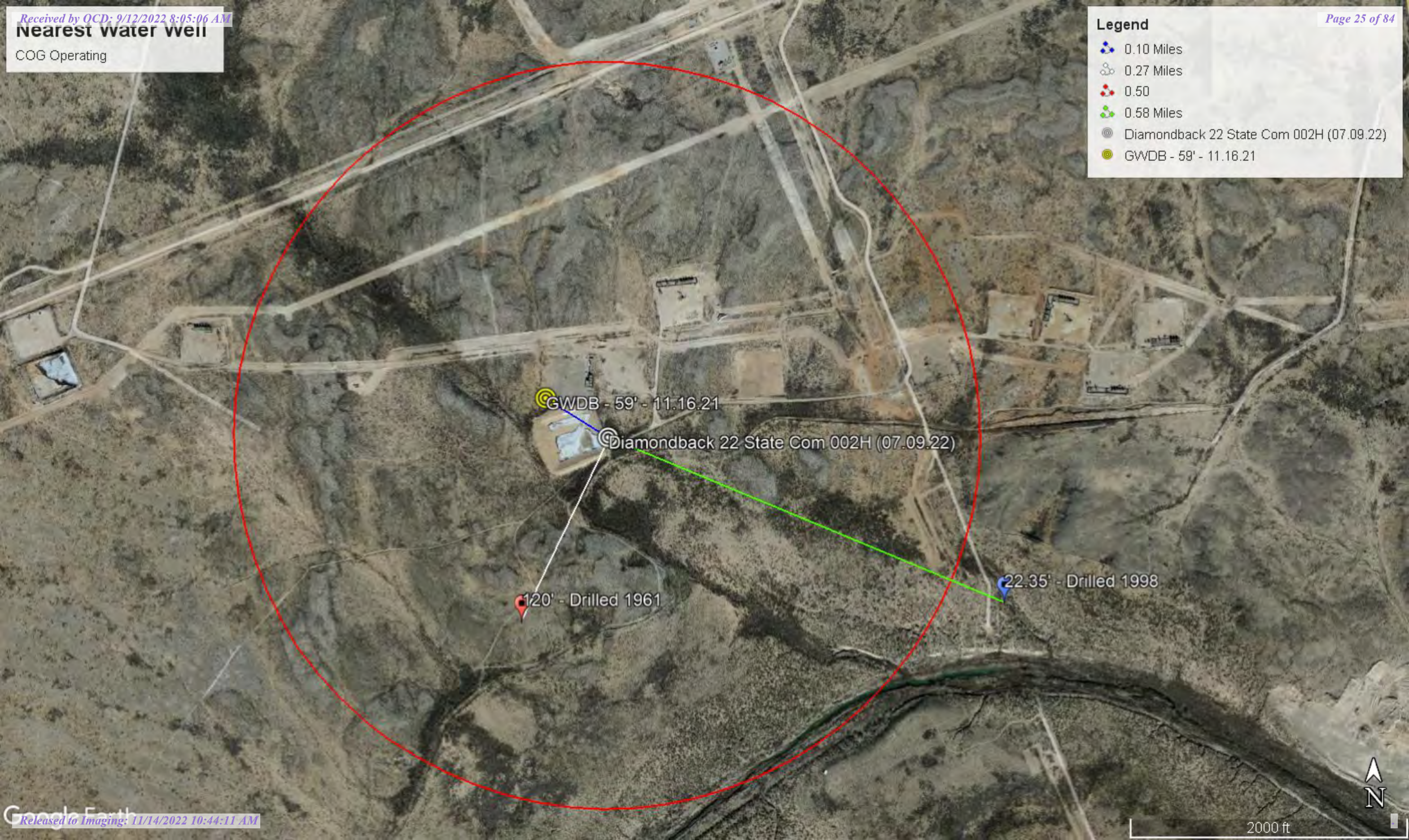
On 11/19/2021 No groundwater present

Nearest water well

COG Operating

**Legend**

- 0.10 Miles
- 0.27 Miles
- 0.50
- 0.58 Miles
- Diamondback 22 State Com 002H (07.09.22)
- GWDB - 59' - 11.16.21

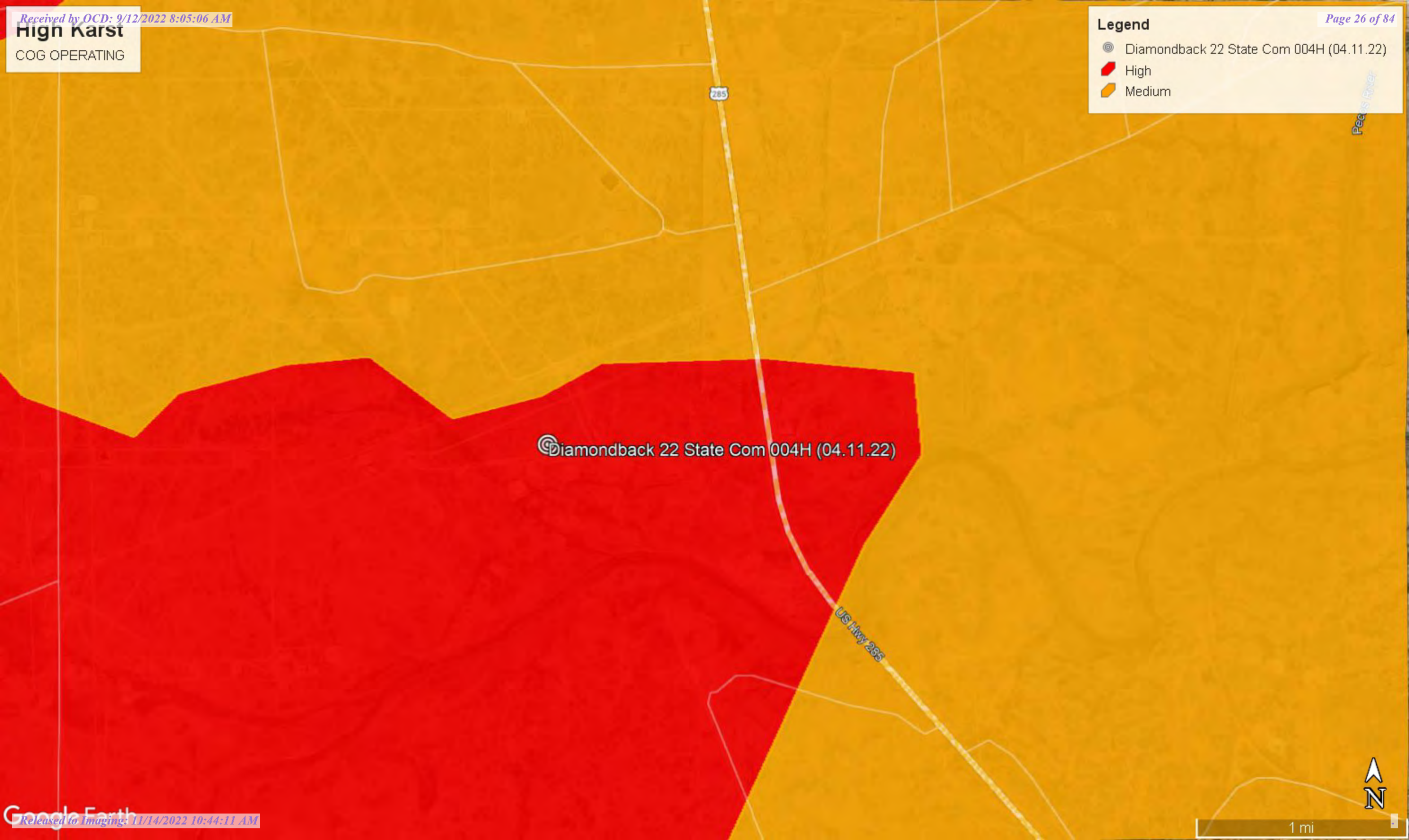


High Karst

COG OPERATING

Legend

-  Diamondback 22 State Com 004H (04.11.22)
-  High
-  Medium





# 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                   | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|------------|-------------|--------------|
| <a href="#">C 01668</a>      | CUB          | ED    |        | 3    | 3    | 12  | 26S | 28E |     | 589957 | 3546554* | 250        | 100         | 150          |
| <a href="#">C 02160</a>      | CUB          | ED    |        | 4    | 1    | 2   | 14  | 26S | 28E | 589243 | 3546044* | 300        | 120         | 180          |
| <a href="#">C 02160 S</a>    | CUB          | ED    |        | 1    | 1    | 2   | 14  | 26S | 28E | 589043 | 3546244* | 300        | 120         | 180          |
| <a href="#">C 02160 S2</a>   | CUB          | ED    |        | 1    | 1    | 2   | 14  | 26S | 28E | 589043 | 3546244* | 300        | 120         | 180          |
| <a href="#">C 02160 S3</a>   | CUB          | ED    |        | 2    | 2    | 1   | 14  | 26S | 28E | 588834 | 3546241* | 300        | 120         | 180          |
| <a href="#">C 02160 S4</a>   | CUB          | ED    |        | 2    | 2    | 1   | 14  | 26S | 28E | 588834 | 3546241* | 300        | 120         | 180          |
| <a href="#">C 02160 S5</a>   | CUB          | ED    |        | 1    | 1    | 1   | 14  | 26S | 28E | 588225 | 3546237* | 300        | 120         | 180          |
| <a href="#">C 02160 S6</a>   | CUB          | ED    |        | 3    | 3    | 1   | 14  | 26S | 28E | 588232 | 3545635* | 300        | 120         | 180          |
| <a href="#">C 02160 S7</a>   | CUB          | ED    |        | 3    | 3    | 1   | 22  | 26S | 28E | 586638 | 3543998* | 300        | 120         | 180          |
| <a href="#">C 02160 S8</a>   | CUB          | ED    |        | 2    | 3    | 3   | 12  | 26S | 28E | 590056 | 3546653* | 200        | 120         | 80           |
| <a href="#">C 02160 S9</a>   | CUB          | ED    |        | 3    | 3    | 2   | 02  | 26S | 28E | 589020 | 3548868* | 300        | 120         | 180          |
| <a href="#">C 02477</a>      | CUB          | ED    |        | 1    | 1    | 03  | 26S | 28E |     | 586687 | 3549347* | 150        |             |              |
| <a href="#">C 02478</a>      | CUB          | ED    |        | 2    | 1    | 05  | 26S | 28E |     | 583848 | 3549325* | 100        |             |              |
| <a href="#">C 02479</a>      | CUB          | ED    |        | 4    | 4    | 10  | 26S | 28E |     | 587909 | 3546534* | 200        |             |              |
| <a href="#">C 02480</a>      | CUB          | ED    |        | 4    | 4    | 10  | 26S | 28E |     | 587909 | 3546534* | 150        |             |              |
| <a href="#">C 02481</a>      | CUB          | ED    |        | 1    | 1    | 14  | 26S | 28E |     | 588326 | 3546138* | 200        |             |              |
| <a href="#">C 02894</a>      | C            | ED    |        | 2    | 2    | 3   | 12  | 26S | 28E | 590458 | 3547061* | 240        |             |              |
| <a href="#">C 02924</a>      | C            | ED    |        | 1    | 3    | 2   | 11  | 26S | 28E | 589032 | 3547451* |            |             |              |
| <a href="#">C 04022 POD1</a> | CUB          | ED    |        | 4    | 4    | 2   | 15  | 26S | 28E | 588082 | 3545647  | 220        | 175         | 45           |
| <a href="#">C 04022 POD2</a> | CUB          | ED    |        | 2    | 2    | 2   | 27  | 26S | 28E | 588106 | 3543082  | 250        | 145         | 105          |
| <a href="#">C 04466 POD1</a> | CUB          | ED    |        | 3    | 3    | 2   | 29  | 26S | 28E | 584327 | 3542357  | 96         | 33          | 63           |

\*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.

5/8/22 5:50 PM

Page 1 of 2

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

Average Depth to Water: **118 feet**

Minimum Depth: **33 feet**

Maximum Depth: **175 feet**

---

**Record Count: 21**

**PLSS Search:**

**Township:** 26S

**Range:** 28E



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                   |            |                                    |     |            |     |                       |     |                       |                                                                                              |
|-------------------|------------|------------------------------------|-----|------------|-----|-----------------------|-----|-----------------------|----------------------------------------------------------------------------------------------|
|                   |            | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |            |     |                       |     | (NAD83 UTM in meters) |                                                                                              |
|                   |            | (quarters are smallest to largest) |     |            |     |                       |     |                       |                                                                                              |
| Well Tag          | POD Number | Q64                                | Q16 | Q4         | Sec | Tw                    | Rng | X                     | Y                                                                                            |
|                   | C 02160 S7 | 3                                  | 3   | 1          | 22  | 26S                   | 28E | 586638                | 3543998*  |
| <div>x</div>      |            |                                    |     |            |     |                       |     |                       |                                                                                              |
| Driller License:  |            | Driller Company:                   |     |            |     |                       |     |                       |                                                                                              |
| Driller Name:     |            | HEMLER                             |     |            |     |                       |     |                       |                                                                                              |
| Drill Start Date: |            | Drill Finish Date:                 |     | 01/01/1961 |     | Plug Date:            |     |                       |                                                                                              |
| Log File Date:    |            | PCW Rev Date:                      |     |            |     | Source: Shallow       |     |                       |                                                                                              |
| Pump Type:        |            | Pipe Discharge Size:               |     |            |     | Estimated Yield:      |     |                       |                                                                                              |
| Casing Size:      |            | Depth Well:                        |     | 300 feet   |     | Depth Water: 120 feet |     |                       |                                                                                              |

\*UTM location was derived from PLSS - see Help

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5/8/22 5:51 PM

POINT OF DIVERSION SUMMARY



USGS Home  
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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

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- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320145104041701

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320145104041701 26S.28E.22.234431

Eddy County, New Mexico  
Latitude 32°01'45", Longitude 104°04'17" NAD27  
Land-surface elevation 2,980 feet above NGVD29  
The depth of the well is 23.00 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement |
|------------|------|-------------------------------------------|------------------------|-----------------------------------------------------|-------------------------------------------------------------------|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|
| 1987-12-12 |      |                                           | D                      | 62610                                               | 2958.98                                                           | NGVD29                          | 1           |                               | S                        |                               |
| 1987-12-12 |      |                                           | D                      | 62611                                               | 2960.55                                                           | NAVD88                          | 1           |                               | S                        |                               |
| 1987-12-12 |      |                                           | D                      | 72019                                               | 21.02                                                             |                                 | 1           |                               | S                        |                               |
| 1998-01-22 |      |                                           | D                      | 62610                                               | 2957.65                                                           | NGVD29                          | 1           |                               | S                        |                               |
| 1998-01-22 |      |                                           | D                      | 62611                                               | 2959.22                                                           | NAVD88                          | 1           |                               | S                        |                               |
| 1998-01-22 |      |                                           | D                      | 72019                                               | 22.35                                                             |                                 | 1           |                               | S                        |                               |

Explanation

| Section                        | Code   | Description                                   |
|--------------------------------|--------|-----------------------------------------------|
| Water-level date-time accuracy | D      | Date is accurate to the Day                   |
| Parameter code                 | 62610  | Groundwater level above NGVD 1929, feet       |
| Parameter code                 | 62611  | Groundwater level above NAVD 1988, feet       |
| Parameter code                 | 72019  | Depth to water level, feet below land surface |
| Referenced vertical datum      | NAVD88 | North American Vertical Datum of 1988         |
| Referenced vertical datum      | NGVD29 | National Geodetic Vertical Datum of 1929      |
| Status                         | 1      | Static                                        |

| Section                     | Code | Description                                                  |
|-----------------------------|------|--------------------------------------------------------------|
| Method of measurement       | S    | Steel-tape measurement.                                      |
| Measuring agency            |      | Not determined                                               |
| Source of measurement       |      | Not determined                                               |
| Water-level approval status | A    | Approved for publication -- Processing and review completed. |

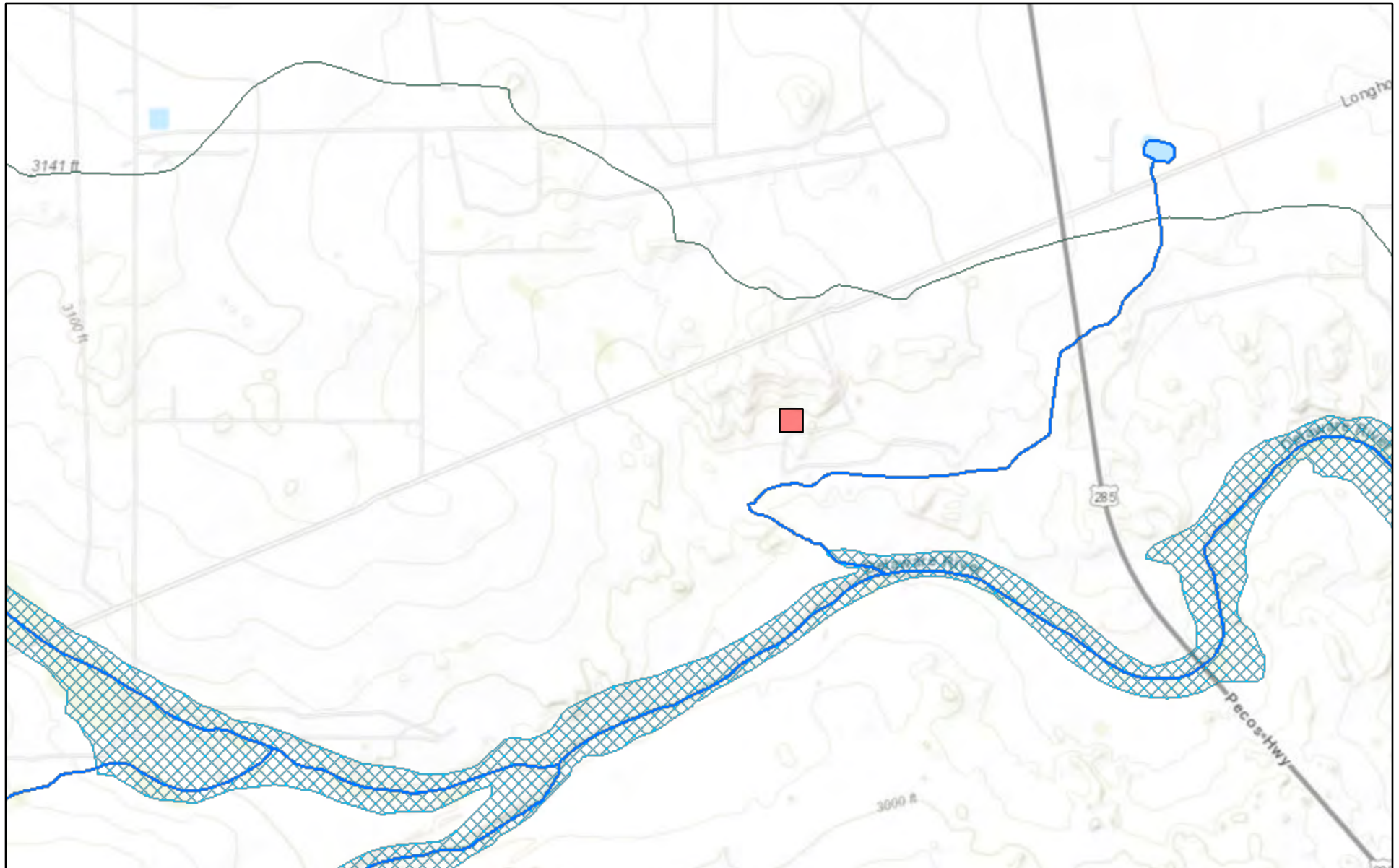
[Questions about sites/data?](#)  
[Feedback on this web site](#)  
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Accessibility    FOIA    Privacy    Policies and Notices  
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

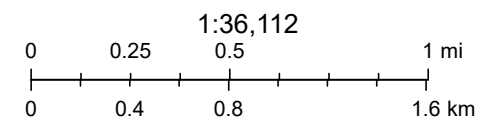


Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2022-05-08 19:52:11 EDT  
0.27   0.24 nadww02

# New Mexico NFHL Data



May 8, 2022



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

## APPENDIX E

CARMONA RESOURCES





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-17262-1

Laboratory Sample Delivery Group: Eddy Co, NM  
Client Project/Site: Diamondback

**For:**

Carmona Resources  
310 W Wall St  
Ste 415  
Midland, Texas 79701

Attn: Conner Moehring

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/27/2022 1:48:03 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources  
Project/Site: Diamondback

Laboratory Job ID: 880-17262-1  
SDG: Eddy Co, NM

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## Definitions/Glossary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1-       | Surrogate recovery exceeds control limits, low biased.   |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                      |
|-----------|------------------------------------------------------------|
| *+        | LCS and/or LCSD is outside acceptance limits, high biased. |
| F1        | MS and/or MSD recovery exceeds control limits.             |
| F2        | MS/MSD RPD exceeds control limits                          |
| S1-       | Surrogate recovery exceeds control limits, low biased.     |
| S1+       | Surrogate recovery exceeds control limits, high biased.    |
| U         | Indicates the analyte was analyzed for but not detected.   |

## HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |

Eurofins Midland

Definitions/Glossary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|-----------------------------------------------------------------------------|
| TEQ          | Toxicity Equivalent Quotient (Dioxin)                                       |
| TNTC         | Too Numerous To Count                                                       |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Case Narrative

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

**Job ID: 880-17262-1**

**Laboratory: Eurofins Midland**

## Narrative

**Job Narrative**  
**880-17262-1**

**Receipt**

The samples were received on 7/22/2022 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-17262-1), S-1 (1.5') (880-17262-2), S-1 (2.0') (880-17262-3), S-1 (2.5') (880-17262-4), S-1 (3.0') (880-17262-5), S-1 (3.5') (880-17262-6) and S-2 (0-1') (880-17262-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30426 and analytical batch 880-30473 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30562 and analytical batch 880-30657 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (1.5') (880-17262-2), S-1 (2.0') (880-17262-3), S-1 (2.5') (880-17262-4), S-1 (3.0') (880-17262-5) and S-1 (3.5') (880-17262-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30709 and analytical batch 880-30747 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-30506 and analytical batch 880-30514 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-17259-A-1-K MS) and (880-17259-A-1-L MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-17262-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-1 (3.0') (880-17262-5) and S-1 (3.5') (880-17262-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-17262-A-11-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30505 and analytical batch 880-30512 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Case Narrative

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

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**Job ID: 880-17262-1 (Continued)**

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**Laboratory: Eurofins Midland (Continued)****HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30401 and analytical batch 880-30488 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30402 and analytical batch 880-30489 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-1')

Lab Sample ID: 880-17262-1

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 2.18   |           | 0.0998 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:00 | 50      |
| Toluene             | 16.0   |           | 0.0998 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:00 | 50      |
| Ethylbenzene        | 5.95   |           | 0.0998 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:00 | 50      |
| m-Xylene & p-Xylene | 28.7   |           | 0.200  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:00 | 50      |
| o-Xylene            | 7.35   |           | 0.0998 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:00 | 50      |
| Xylenes, Total      | 36.1   |           | 0.200  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:00 | 50      |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 254       | S1+       | 70 - 130 | 07/22/22 15:06 | 07/23/22 21:00 | 50      |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 07/22/22 15:06 | 07/23/22 21:00 | 50      |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL    | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|-------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 60.2   |           | 0.200 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 6090   |           | 49.9 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 2120   |           | 49.9 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 16:48 | 1       |
| Diesel Range Organics (Over C10-C28) | 3580   |           | 49.9 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 16:48 | 1       |
| Oil Range Organics (Over C28-C36)    | 385    |           | 49.9 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 16:48 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 131       | S1+       | 70 - 130 | 07/25/22 08:46 | 07/25/22 16:48 | 1       |
| o-Terphenyl    | 97        |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 16:48 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 684    |           | 5.00 |     | mg/Kg |   |          | 07/25/22 06:58 | 1       |

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17262-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 9.27   |           | 0.100 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:20 | 50      |
| Toluene             | 72.9   |           | 0.503 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 18:32 | 250     |
| Ethylbenzene        | 11.6   |           | 0.100 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:20 | 50      |
| m-Xylene & p-Xylene | 85.4   |           | 1.01  |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 18:32 | 250     |
| o-Xylene            | 17.0   |           | 0.100 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:20 | 50      |
| Xylenes, Total      | 110    |           | 1.01  |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 18:32 | 250     |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 342       | S1+       | 70 - 130 | 07/22/22 15:06 | 07/23/22 21:20 | 50      |
| 1,4-Difluorobenzene (Surr)  | 123       |           | 70 - 130 | 07/22/22 15:06 | 07/23/22 21:20 | 50      |

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17262-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 196    |           | 1.01 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 3810   |           | 49.9 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 1490      |           | 49.9     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:09 | 1       |
| Diesel Range Organics (Over C10-C28) | 2120      |           | 49.9     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:09 | 1       |
| Oil Range Organics (Over C28-C36)    | 201       |           | 49.9     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:09 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 110       |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 17:09 | 1       |
| o-Terphenyl                          | 92        |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 17:09 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 756    |           | 4.95 |     | mg/Kg |   |          | 07/25/22 07:06 | 1       |

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-17262-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | 11.3      |           | 0.100    |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:41 | 50      |
| Toluene                     | 64.8      |           | 0.504    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 18:53 | 250     |
| Ethylbenzene                | 13.1      |           | 0.100    |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:41 | 50      |
| m-Xylene & p-Xylene         | 81.7      |           | 1.01     |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 18:53 | 250     |
| o-Xylene                    | 18.2      |           | 0.100    |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 21:41 | 50      |
| Xylenes, Total              | 106       |           | 1.01     |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 18:53 | 250     |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 340       | S1+       | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 21:41 | 50      |
| 1,4-Difluorobenzene (Surr)  | 134       | S1+       | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 21:41 | 50      |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 189    |           | 1.01 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 3230   |           | 50.0 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 1230   |           | 50.0 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:31 | 1       |

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-17262-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | 1820      |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:31 | 1       |
| Oil Range Organics (Over C28-C36)    | 179       |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:31 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 109       |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 17:31 | 1       |
| o-Terphenyl                          | 91        |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 17:31 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 14300  | F1        | 99.2 |     | mg/Kg |   |          | 07/25/22 07:51 | 20      |

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-17262-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | 14.9      |           | 0.499    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:14 | 250     |
| Toluene                     | 107       |           | 1.99     |     | mg/Kg |   | 07/27/22 10:00 | 07/27/22 13:40 | 1000    |
| Ethylbenzene                | 24.7      |           | 0.499    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:14 | 250     |
| m-Xylene & p-Xylene         | 121       |           | 0.998    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:14 | 250     |
| o-Xylene                    | 37.2      |           | 0.499    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:14 | 250     |
| Xylenes, Total              | 158       |           | 0.998    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:14 | 250     |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 469       | S1+       | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 22:01 | 50      |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 22:01 | 50      |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL    | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|-------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 305    |           | 0.998 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 4430   |           | 50.0 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 1800      |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:52 | 1       |
| Diesel Range Organics (Over C10-C28) | 2370      |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:52 | 1       |
| Oil Range Organics (Over C28-C36)    | 255       |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 17:52 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 108       |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 17:52 | 1       |
| o-Terphenyl                          | 87        |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 17:52 | 1       |

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-17262-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 14700  |           | 100 |     | mg/Kg |   |          | 07/25/22 08:19 | 20      |

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-17262-5

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 17.7   |           | 0.101 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 22:22 | 50      |
| Toluene             | 106    |           | 2.00  |     | mg/Kg |   | 07/27/22 10:00 | 07/27/22 14:00 | 1000    |
| Ethylbenzene        | 19.8   |           | 0.101 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 22:22 | 50      |
| m-Xylene & p-Xylene | 125    |           | 0.996 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:34 | 250     |
| o-Xylene            | 37.1   |           | 0.498 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:34 | 250     |
| Xylenes, Total      | 162    |           | 0.996 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:34 | 250     |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 386       | S1+       | 70 - 130 | 07/22/22 15:06 | 07/23/22 22:22 | 50      |
| 1,4-Difluorobenzene (Surr)  | 116       |           | 70 - 130 | 07/22/22 15:06 | 07/23/22 22:22 | 50      |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL    | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|-------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 306    |           | 0.996 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 6300   |           | 49.9 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 2600   |           | 49.9 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:14 | 1       |
| Diesel Range Organics (Over C10-C28) | 3370   |           | 49.9 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:14 | 1       |
| Oil Range Organics (Over C28-C36)    | 331    |           | 49.9 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:14 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 142       | S1+       | 70 - 130 | 07/25/22 08:46 | 07/25/22 18:14 | 1       |
| o-Terphenyl    | 83        |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 18:14 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 14400  |           | 100 |     | mg/Kg |   |          | 07/25/22 08:28 | 20      |

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte      | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Benzene      | 32.4   |           | 0.495 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:55 | 250     |
| Toluene      | 129    |           | 1.99  |     | mg/Kg |   | 07/27/22 10:00 | 07/27/22 14:21 | 1000    |
| Ethylbenzene | 29.8   |           | 0.495 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:55 | 250     |

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| m-Xylene & p-Xylene         | 131       |           | 0.990    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:55 | 250     |
| o-Xylene                    | 38.1      |           | 0.495    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:55 | 250     |
| Xylenes, Total              | 169       |           | 0.990    |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 19:55 | 250     |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 463       | S1+       | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 22:42 | 50      |
| 1,4-Difluorobenzene (Surr)  | 62        | S1-       | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 22:42 | 50      |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL    | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|-------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 360    |           | 0.990 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 8240   |           | 50.0 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 3370      |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:36 | 1       |
| Diesel Range Organics (Over C10-C28) | 4400      |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:36 | 1       |
| Oil Range Organics (Over C28-C36)    | 471       |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:36 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 186       | S1+       | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 18:36 | 1       |
| o-Terphenyl                          | 99        |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 18:36 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 13500  |           | 99.4 |     | mg/Kg |   |          | 07/25/22 08:37 | 20      |

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-17262-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |
| Toluene                     | 0.00206   |           | 0.00202  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |
| Ethylbenzene                | 0.0101    |           | 0.00202  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |
| m-Xylene & p-Xylene         | 0.132     |           | 0.00404  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |
| o-Xylene                    | 0.0763    |           | 0.00202  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |
| Xylenes, Total              | 0.208     |           | 0.00404  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 142       | S1+       | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 19:58 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 0.220  |           | 0.00404 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-17262-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 3870   |           | 49.9 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 321       |           | 49.9     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:57 | 1       |
| Diesel Range Organics (Over C10-C28) | 3230      |           | 49.9     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:57 | 1       |
| Oil Range Organics (Over C28-C36)    | 321       |           | 49.9     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 18:57 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 106       |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 18:57 | 1       |
| o-Terphenyl                          | 84        |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 18:57 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 5460   |           | 99.4 |     | mg/Kg |   |          | 07/25/22 08:47 | 20      |

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17262-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |
| m-Xylene & p-Xylene         | 0.0105    |           | 0.00399  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |
| o-Xylene                    | 0.0123    |           | 0.00200  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |
| Xylenes, Total              | 0.0228    |           | 0.00399  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 119       |           | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 76        |           | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 20:19 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 0.0228 |           | 0.00399 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 658    |           | 49.8 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 19:19 | 1       |
| Diesel Range Organics (Over C10-C28) | 598    |           | 49.8 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 19:19 | 1       |
| Oil Range Organics (Over C28-C36)    | 60.1   |           | 49.8 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 19:19 | 1       |

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17262-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81        |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 19:19 | 1       |
| o-Terphenyl    | 83        |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 19:19 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 654    |           | 25.2 |     | mg/Kg |   |          | 07/25/22 09:14 | 5       |

## Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-17262-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |
| m-Xylene & p-Xylene         | 0.0216    |           | 0.00396  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |
| o-Xylene                    | 0.0140    |           | 0.00198  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |
| Xylenes, Total              | 0.0356    |           | 0.00396  |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 |     |       |   | 07/22/22 15:06 | 07/23/22 20:39 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | 0.0356 |           | 0.00396 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 734    |           | 50.0 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 55.2      |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 19:41 | 1       |
| Diesel Range Organics (Over C10-C28) | 628       |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 19:41 | 1       |
| Oil Range Organics (Over C28-C36)    | 50.8      |           | 50.0     |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 19:41 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 19:41 | 1       |
| o-Terphenyl                          | 86        |           | 70 - 130 |     |       |   | 07/25/22 08:46 | 07/25/22 19:41 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1420   |           | 25.1 |     | mg/Kg |   |          | 07/25/22 09:24 | 5       |

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-2 (2.5')

Lab Sample ID: 880-17262-10

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:20 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:20 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:20 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:20 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:20 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:20 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 07/23/22 18:30 | 07/24/22 19:20 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 | 07/23/22 18:30 | 07/24/22 19:20 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 75.1   |           | 49.8 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 20:03 | 1       |
| Diesel Range Organics (Over C10-C28) | 75.1   |           | 49.8 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 20:03 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 20:03 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 71        |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 20:03 | 1       |
| o-Terphenyl    | 74        |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 20:03 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 120    |           | 4.98 |     | mg/Kg |   |          | 07/25/22 09:33 | 1       |

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-17262-11

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:41 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:41 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:41 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:41 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:41 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 19:41 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 07/23/22 18:30 | 07/24/22 19:41 | 1       |
| 1,4-Difluorobenzene (Surr)  | 78        |           | 70 - 130 | 07/23/22 18:30 | 07/24/22 19:41 | 1       |

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-17262-11

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 21:51 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 21:51 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 21:51 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 85        |           | 70 - 130 |     |       |   | 07/25/22 12:08 | 07/25/22 21:51 | 1       |
| o-Terphenyl                          | 89        |           | 70 - 130 |     |       |   | 07/25/22 12:08 | 07/25/22 21:51 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 13.2   |           | 5.00 |     | mg/Kg |   |          | 07/25/22 09:42 | 1       |

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-17262-12

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 |     |       |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 82        |           | 70 - 130 |     |       |   | 07/23/22 18:30 | 07/24/22 20:01 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 22:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 22:56 | 1       |

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-17262-12

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.9     | U         | 49.9     |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 22:56 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 84        |           | 70 - 130 |     |       |   | 07/25/22 12:08 | 07/25/22 22:56 | 1       |
| o-Terphenyl                       | 83        |           | 70 - 130 |     |       |   | 07/25/22 12:08 | 07/25/22 22:56 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 11.8   |           | 5.05 |     | mg/Kg |   |          | 07/25/22 09:51 | 1       |

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-17262-13

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 |     |       |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |
| 1,4-Difluorobenzene (Surr)  | 81        |           | 70 - 130 |     |       |   | 07/23/22 18:30 | 07/24/22 20:22 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 15:25 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U **      | 49.9     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 15:25 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 15:25 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 85        |           | 70 - 130 |     |       |   | 07/25/22 08:52 | 07/25/22 15:25 | 1       |
| o-Terphenyl                          | 92        |           | 70 - 130 |     |       |   | 07/25/22 08:52 | 07/25/22 15:25 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 11.5   | F1        | 5.05 |     | mg/Kg |   |          | 07/25/22 10:00 | 1       |

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-17262-14

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 |     |       |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |
| 1,4-Difluorobenzene (Surr)  | 81        |           | 70 - 130 |     |       |   | 07/23/22 18:30 | 07/24/22 20:42 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 07/25/22 10:43 | 1       |

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 07/25/22 16:54 | 1       |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 15:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U *       | 50.0     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 15:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 15:46 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |     |       |   | 07/25/22 08:52 | 07/25/22 15:46 | 1       |
| o-Terphenyl                          | 100       |           | 70 - 130 |     |       |   | 07/25/22 08:52 | 07/25/22 15:46 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 18.0   |           | 4.99 |     | mg/Kg |   |          | 07/25/22 10:28 | 1       |

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## Surrogate Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

|                      |                        | Percent Surrogate Recovery (Acceptance Limits) |          |
|----------------------|------------------------|------------------------------------------------|----------|
| Lab Sample ID        | Client Sample ID       | BFB1                                           | DFBZ1    |
|                      |                        | (70-130)                                       | (70-130) |
| 880-17132-A-4-F MS   | Matrix Spike           | 103                                            | 95       |
| 880-17132-A-4-G MSD  | Matrix Spike Duplicate | 110                                            | 96       |
| 880-17262-1          | S-1 (0-1')             | 254 S1+                                        | 99       |
| 880-17262-2          | S-1 (1.5')             | 342 S1+                                        | 123      |
| 880-17262-3          | S-1 (2.0')             | 340 S1+                                        | 134 S1+  |
| 880-17262-4          | S-1 (2.5')             | 469 S1+                                        | 92       |
| 880-17262-5          | S-1 (3.0')             | 386 S1+                                        | 116      |
| 880-17262-6          | S-1 (3.5')             | 463 S1+                                        | 62 S1-   |
| 880-17262-7          | S-2 (0-1')             | 142 S1+                                        | 96       |
| 880-17262-8          | S-2 (1.5')             | 119                                            | 76       |
| 880-17262-9          | S-2 (2.0')             | 109                                            | 83       |
| 880-17262-10         | S-2 (2.5')             | 96                                             | 83       |
| 880-17262-11         | H-1 (0-0.5')           | 110                                            | 78       |
| 880-17262-12         | H-2 (0-0.5')           | 101                                            | 82       |
| 880-17262-13         | H-3 (0-0.5')           | 108                                            | 81       |
| 880-17262-14         | H-4 (0-0.5')           | 111                                            | 81       |
| 880-17263-A-16-E MS  | Matrix Spike           | 114                                            | 86       |
| 880-17263-A-16-F MSD | Matrix Spike Duplicate | 115                                            | 94       |
| 880-17264-A-22-C MS  | Matrix Spike           | 100                                            | 88       |
| 880-17264-A-22-D MSD | Matrix Spike Duplicate | 101                                            | 96       |
| 880-17284-A-1-A MS   | Matrix Spike           | 117                                            | 92       |
| 880-17284-A-1-B MSD  | Matrix Spike Duplicate | 121                                            | 93       |
| 890-2603-A-1-D MS    | Matrix Spike           | 103                                            | 85       |
| 890-2603-A-1-E MSD   | Matrix Spike Duplicate | 107                                            | 92       |
| LCS 880-30426/1-A    | Lab Control Sample     | 106                                            | 100      |
| LCS 880-30478/1-A    | Lab Control Sample     | 106                                            | 98       |
| LCS 880-30562/1-A    | Lab Control Sample     | 106                                            | 94       |
| LCS 880-30664/1-A    | Lab Control Sample     | 105                                            | 95       |
| LCS 880-30709/1-A    | Lab Control Sample     | 110                                            | 99       |
| LCSD 880-30426/2-A   | Lab Control Sample Dup | 101                                            | 99       |
| LCSD 880-30478/2-A   | Lab Control Sample Dup | 105                                            | 97       |
| LCSD 880-30562/2-A   | Lab Control Sample Dup | 104                                            | 94       |
| LCSD 880-30664/2-A   | Lab Control Sample Dup | 108                                            | 98       |
| LCSD 880-30709/2-A   | Lab Control Sample Dup | 104                                            | 95       |
| MB 880-30426/5-A     | Method Blank           | 94                                             | 86       |
| MB 880-30478/5-A     | Method Blank           | 98                                             | 86       |
| MB 880-30562/5-A     | Method Blank           | 90                                             | 84       |
| MB 880-30664/5-A     | Method Blank           | 100                                            | 87       |
| MB 880-30709/5-A     | Method Blank           | 101                                            | 84       |

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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## Surrogate Summary

Client: Carmona Resources

Job ID: 880-17262-1

Project/Site: Diamondback

SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

|                     |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID       | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-17258-A-1-C MS  | Matrix Spike           | 85                                             | 82                |
| 880-17258-A-1-D MSD | Matrix Spike Duplicate | 85                                             | 83                |
| 880-17259-A-1-K MS  | Matrix Spike           | 74                                             | 66 S1-            |
| 880-17259-A-1-L MSD | Matrix Spike Duplicate | 54 S1-                                         | 48 S1-            |
| 880-17262-1         | S-1 (0-1')             | 131 S1+                                        | 97                |
| 880-17262-2         | S-1 (1.5')             | 110                                            | 92                |
| 880-17262-3         | S-1 (2.0')             | 109                                            | 91                |
| 880-17262-4         | S-1 (2.5')             | 108                                            | 87                |
| 880-17262-5         | S-1 (3.0')             | 142 S1+                                        | 83                |
| 880-17262-6         | S-1 (3.5')             | 186 S1+                                        | 99                |
| 880-17262-7         | S-2 (0-1')             | 106                                            | 84                |
| 880-17262-8         | S-2 (1.5')             | 81                                             | 83                |
| 880-17262-9         | S-2 (2.0')             | 92                                             | 86                |
| 880-17262-10        | S-2 (2.5')             | 71                                             | 74                |
| 880-17262-11        | H-1 (0-0.5')           | 85                                             | 89                |
| 880-17262-11 MS     | H-1 (0-0.5')           | 69 S1-                                         | 64 S1-            |
| 880-17262-11 MSD    | H-1 (0-0.5')           | 81                                             | 75                |
| 880-17262-12        | H-2 (0-0.5')           | 84                                             | 83                |
| 880-17262-13        | H-3 (0-0.5')           | 85                                             | 92                |
| 880-17262-14        | H-4 (0-0.5')           | 92                                             | 100               |
| LCS 880-30505/2-A   | Lab Control Sample     | 92                                             | 89                |
| LCS 880-30506/2-A   | Lab Control Sample     | 110                                            | 111               |
| LCS 880-30590/2-A   | Lab Control Sample     | 98                                             | 95                |
| LCSD 880-30505/3-A  | Lab Control Sample Dup | 87                                             | 87                |
| LCSD 880-30506/3-A  | Lab Control Sample Dup | 122                                            | 126               |
| LCSD 880-30590/3-A  | Lab Control Sample Dup | 95                                             | 95                |
| MB 880-30505/1-A    | Method Blank           | 111                                            | 125               |
| MB 880-30506/1-A    | Method Blank           | 94                                             | 111               |
| MB 880-30590/1-A    | Method Blank           | 99                                             | 113               |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30426/5-A

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30426

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 14:49 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 14:49 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 14:49 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 14:49 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 14:49 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 07/22/22 15:06 | 07/23/22 14:49 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94           |              | 70 - 130 | 07/22/22 15:06 | 07/23/22 14:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86           |              | 70 - 130 | 07/22/22 15:06 | 07/23/22 14:49 | 1       |

Lab Sample ID: LCS 880-30426/1-A

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30426

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09901    |               | mg/Kg |   | 99   | 70 - 130    |
| Toluene             | 0.100       | 0.09612    |               | mg/Kg |   | 96   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1002     |               | mg/Kg |   | 100  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2000     |               | mg/Kg |   | 100  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1089     |               | mg/Kg |   | 109  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 106           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-30426/2-A

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30426

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09549     |                | mg/Kg |   | 95   | 70 - 130    | 4   | 35        |
| Toluene             | 0.100       | 0.09719     |                | mg/Kg |   | 97   | 70 - 130    | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.09922     |                | mg/Kg |   | 99   | 70 - 130    | 1   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1970      |                | mg/Kg |   | 99   | 70 - 130    | 1   | 35        |
| o-Xylene            | 0.100       | 0.1079      |                | mg/Kg |   | 108  | 70 - 130    | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 101            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99             |                | 70 - 130 |

Lab Sample ID: 880-17284-A-1-A MS

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30426

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00202      | U                | 0.0998      | 0.09670   |              | mg/Kg |   | 97   | 70 - 130    |
| Toluene | <0.00202      | U                | 0.0998      | 0.1062    |              | mg/Kg |   | 106  | 70 - 130    |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17284-A-1-A MS

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30426

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00202      | U                | 0.0998      | 0.1152    |              | mg/Kg |   | 115  | 70 - 130    |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.200       | 0.2364    |              | mg/Kg |   | 118  | 70 - 130    |
| o-Xylene            | <0.00202      | U F1             | 0.0998      | 0.1311    | F1           | mg/Kg |   | 131  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 117          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 92           |              | 70 - 130 |

Lab Sample ID: 880-17284-A-1-B MSD

Matrix: Solid

Analysis Batch: 30473

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30426

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.1000     |               | mg/Kg |   | 100  | 70 - 130    | 3   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.1059     |               | mg/Kg |   | 105  | 70 - 130    | 0   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.1187     |               | mg/Kg |   | 118  | 70 - 130    | 3   | 35        |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.201       | 0.2431     |               | mg/Kg |   | 121  | 70 - 130    | 3   | 35        |
| o-Xylene            | <0.00202      | U F1             | 0.100       | 0.1333     | F1            | mg/Kg |   | 133  | 70 - 130    | 2   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 121           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

Lab Sample ID: MB 880-30478/5-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30478

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 14:29 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 14:29 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 14:29 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 14:29 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 14:29 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 07/23/22 18:30 | 07/24/22 14:29 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 07/23/22 18:30 | 07/24/22 14:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86           |              | 70 - 130 | 07/23/22 18:30 | 07/24/22 14:29 | 1       |

Lab Sample ID: LCS 880-30478/1-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30478

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1098     |               | mg/Kg |   | 110  | 70 - 130    |
| Toluene             | 0.100       | 0.1086     |               | mg/Kg |   | 109  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1126     |               | mg/Kg |   | 113  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2291     |               | mg/Kg |   | 115  | 70 - 130    |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-30478/1-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30478

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| o-Xylene | 0.100       | 0.1252     |               | mg/Kg |   | 125  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 106           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 98            |               | 70 - 130 |

Lab Sample ID: LCSD 880-30478/2-A

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30478

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1024      |                | mg/Kg |   | 102  | 70 - 130    | 7   | 35        |
| Toluene             | 0.100       | 0.1005      |                | mg/Kg |   | 101  | 70 - 130    | 8   | 35        |
| Ethylbenzene        | 0.100       | 0.1036      |                | mg/Kg |   | 104  | 70 - 130    | 8   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2101      |                | mg/Kg |   | 105  | 70 - 130    | 9   | 35        |
| o-Xylene            | 0.100       | 0.1148      |                | mg/Kg |   | 115  | 70 - 130    | 9   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 105            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97             |                | 70 - 130 |

Lab Sample ID: 880-17264-A-22-C MS

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30478

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00200      | U                | 0.100       | 0.07613   |              | mg/Kg |   | 76   | 70 - 130    |
| Toluene             | <0.00200      | U                | 0.100       | 0.08980   |              | mg/Kg |   | 89   | 70 - 130    |
| Ethylbenzene        | <0.00200      | U                | 0.100       | 0.09841   |              | mg/Kg |   | 98   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00399      | U                | 0.201       | 0.1966    |              | mg/Kg |   | 98   | 70 - 130    |
| o-Xylene            | <0.00200      | U                | 0.100       | 0.1051    |              | mg/Kg |   | 105  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 88           |              | 70 - 130 |

Lab Sample ID: 880-17264-A-22-D MSD

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30478

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.0998      | 0.09261    |               | mg/Kg |   | 93   | 70 - 130    | 20  | 35        |
| Toluene             | <0.00200      | U                | 0.0998      | 0.09185    |               | mg/Kg |   | 92   | 70 - 130    | 2   | 35        |
| Ethylbenzene        | <0.00200      | U                | 0.0998      | 0.09454    |               | mg/Kg |   | 95   | 70 - 130    | 4   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U                | 0.200       | 0.1915     |               | mg/Kg |   | 96   | 70 - 130    | 3   | 35        |
| o-Xylene            | <0.00200      | U                | 0.0998      | 0.1034     |               | mg/Kg |   | 104  | 70 - 130    | 2   | 35        |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17264-A-22-D MSD

Matrix: Solid

Analysis Batch: 30484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30478

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |

Lab Sample ID: MB 880-30562/5-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30562

|                     | MB       | MB        |         |     |       |   |                |                |     |     |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|-----|-----|
| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil | Fac |
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |

|                             | MB        | MB        |          |  |  |  |                |                |     |     |
|-----------------------------|-----------|-----------|----------|--|--|--|----------------|----------------|-----|-----|
| Surrogate                   | %Recovery | Qualifier | Limits   |  |  |  | Prepared       | Analyzed       | Dil | Fac |
| 4-Bromofluorobenzene (Surr) | 90        |           | 70 - 130 |  |  |  | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 |  |  |  | 07/25/22 10:57 | 07/26/22 22:37 | 1   |     |

Lab Sample ID: LCS 880-30562/1-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30562

|                     | Spike | LCS     | LCS       |       |   |      |          | %Rec |  |  |
|---------------------|-------|---------|-----------|-------|---|------|----------|------|--|--|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |      |  |  |
| Benzene             | 0.100 | 0.09490 |           | mg/Kg |   | 95   | 70 - 130 |      |  |  |
| Toluene             | 0.100 | 0.09745 |           | mg/Kg |   | 97   | 70 - 130 |      |  |  |
| Ethylbenzene        | 0.100 | 0.1000  |           | mg/Kg |   | 100  | 70 - 130 |      |  |  |
| m-Xylene & p-Xylene | 0.200 | 0.2002  |           | mg/Kg |   | 100  | 70 - 130 |      |  |  |
| o-Xylene            | 0.100 | 0.1107  |           | mg/Kg |   | 111  | 70 - 130 |      |  |  |

|                             | LCS       | LCS       |          |  |  |  |  |  |  |  |
|-----------------------------|-----------|-----------|----------|--|--|--|--|--|--|--|
| Surrogate                   | %Recovery | Qualifier | Limits   |  |  |  |  |  |  |  |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |  |  |  |  |  |  |  |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 |  |  |  |  |  |  |  |

Lab Sample ID: LCSD 880-30562/2-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30562

|                     | Spike | LCSD   | LCSD      |       |   |      |          | %Rec |       | RPD |  |
|---------------------|-------|--------|-----------|-------|---|------|----------|------|-------|-----|--|
| Analyte             | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD  | Limit |     |  |
| Benzene             | 0.100 | 0.1003 |           | mg/Kg |   | 100  | 70 - 130 | 6    | 35    |     |  |
| Toluene             | 0.100 | 0.1020 |           | mg/Kg |   | 102  | 70 - 130 | 5    | 35    |     |  |
| Ethylbenzene        | 0.100 | 0.1039 |           | mg/Kg |   | 104  | 70 - 130 | 4    | 35    |     |  |
| m-Xylene & p-Xylene | 0.200 | 0.2077 |           | mg/Kg |   | 104  | 70 - 130 | 4    | 35    |     |  |
| o-Xylene            | 0.100 | 0.1145 |           | mg/Kg |   | 114  | 70 - 130 | 3    | 35    |     |  |

|                             | LCSD      | LCSD      |          |  |  |  |  |  |  |  |  |
|-----------------------------|-----------|-----------|----------|--|--|--|--|--|--|--|--|
| Surrogate                   | %Recovery | Qualifier | Limits   |  |  |  |  |  |  |  |  |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 |  |  |  |  |  |  |  |  |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-30562/2-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30562

|                            | LCSD      | LCSD      |          |
|----------------------------|-----------|-----------|----------|
| Surrogate                  | %Recovery | Qualifier | Limits   |
| 1,4-Difluorobenzene (Surr) | 94        |           | 70 - 130 |

Lab Sample ID: 890-2603-A-1-D MS

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30562

|                     | Sample   | Sample    | Spike | MS      | MS        |       |   |      | %Rec     |  |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte             | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | <0.00201 | U F1 F2   | 0.101 | 0.03049 | F1        | mg/Kg |   | 30   | 70 - 130 |  |
| Toluene             | <0.00201 | U F1 F2   | 0.101 | 0.03834 | F1        | mg/Kg |   | 37   | 70 - 130 |  |
| Ethylbenzene        | <0.00201 | U F1 F2   | 0.101 | 0.01617 | F1        | mg/Kg |   | 16   | 70 - 130 |  |
| m-Xylene & p-Xylene | <0.00402 | U F1 F2   | 0.202 | 0.08284 | F1        | mg/Kg |   | 40   | 70 - 130 |  |
| o-Xylene            | <0.00201 | U F1 F2   | 0.101 | 0.04972 | F1        | mg/Kg |   | 49   | 70 - 130 |  |

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 85        |           | 70 - 130 |

Lab Sample ID: 890-2603-A-1-E MSD

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30562

|                     | Sample   | Sample    | Spike | MSD     | MSD       |       |   |      | %Rec     |     | RPD   |  |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte             | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |  |
| Benzene             | <0.00201 | U F1 F2   | 0.100 | 0.07677 | F2        | mg/Kg |   | 77   | 70 - 130 | 86  | 35    |  |
| Toluene             | <0.00201 | U F1 F2   | 0.100 | 0.08242 | F2        | mg/Kg |   | 81   | 70 - 130 | 73  | 35    |  |
| Ethylbenzene        | <0.00201 | U F1 F2   | 0.100 | 0.08472 | F2        | mg/Kg |   | 85   | 70 - 130 | 136 | 35    |  |
| m-Xylene & p-Xylene | <0.00402 | U F1 F2   | 0.200 | 0.1719  | F2        | mg/Kg |   | 85   | 70 - 130 | 70  | 35    |  |
| o-Xylene            | <0.00201 | U F1 F2   | 0.100 | 0.09434 | F2        | mg/Kg |   | 94   | 70 - 130 | 62  | 35    |  |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |

Lab Sample ID: MB 880-30664/5-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30664

|                     | MB       | MB        |         |     |       |   |                |                |         |  |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|--|
| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |  |
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |

|                             | MB        | MB        |          |                |                |         |  |  |  |  |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|--|--|--|--|
| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |  |  |  |  |
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |  |  |  |
| 1,4-Difluorobenzene (Surr)  | 87        |           | 70 - 130 | 07/26/22 09:25 | 07/26/22 12:01 | 1       |  |  |  |  |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-30664/1-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30664

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09358    |               | mg/Kg |   | 94   | 70 - 130    |
| Toluene             | 0.100       | 0.09382    |               | mg/Kg |   | 94   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09803    |               | mg/Kg |   | 98   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1983     |               | mg/Kg |   | 99   | 70 - 130    |
| o-Xylene            | 0.100       | 0.1073     |               | mg/Kg |   | 107  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-30664/2-A

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30664

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09765     |                | mg/Kg |   | 98   | 70 - 130    | 4   | 35        |
| Toluene             | 0.100       | 0.09676     |                | mg/Kg |   | 97   | 70 - 130    | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.1016      |                | mg/Kg |   | 102  | 70 - 130    | 4   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2052      |                | mg/Kg |   | 103  | 70 - 130    | 3   | 35        |
| o-Xylene            | 0.100       | 0.1117      |                | mg/Kg |   | 112  | 70 - 130    | 4   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 108            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 98             |                | 70 - 130 |

Lab Sample ID: 880-17132-A-4-F MS

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30664

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00201      | U                | 0.100       | 0.08215   |              | mg/Kg |   | 82   | 70 - 130    |
| Toluene             | <0.00201      | U                | 0.100       | 0.07761   |              | mg/Kg |   | 77   | 70 - 130    |
| Ethylbenzene        | <0.00201      | U                | 0.100       | 0.07428   |              | mg/Kg |   | 74   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.200       | 0.1476    |              | mg/Kg |   | 74   | 70 - 130    |
| o-Xylene            | <0.00201      | U                | 0.100       | 0.08083   |              | mg/Kg |   | 81   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 103          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95           |              | 70 - 130 |

Lab Sample ID: 880-17132-A-4-G MSD

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30664

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene      | <0.00201      | U                | 0.0998      | 0.08953    |               | mg/Kg |   | 90   | 70 - 130    | 9   | 35        |
| Toluene      | <0.00201      | U                | 0.0998      | 0.08606    |               | mg/Kg |   | 85   | 70 - 130    | 10  | 35        |
| Ethylbenzene | <0.00201      | U                | 0.0998      | 0.08275    |               | mg/Kg |   | 83   | 70 - 130    | 11  | 35        |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17132-A-4-G MSD

Matrix: Solid

Analysis Batch: 30657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30664

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| m-Xylene & p-Xylene | <0.00402      | U                | 0.200       | 0.1653     |               | mg/Kg |   | 83   | 70 - 130    | 11  | 35        |
| o-Xylene            | <0.00201      | U                | 0.0998      | 0.09102    |               | mg/Kg |   | 91   | 70 - 130    | 12  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 110           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

Lab Sample ID: MB 880-30709/5-A

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30709

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/27/22 08:00 | 07/27/22 10:54 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/27/22 08:00 | 07/27/22 10:54 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/27/22 08:00 | 07/27/22 10:54 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 07/27/22 08:00 | 07/27/22 10:54 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 07/27/22 08:00 | 07/27/22 10:54 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 07/27/22 08:00 | 07/27/22 10:54 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 07/27/22 08:00 | 07/27/22 10:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84           |              | 70 - 130 | 07/27/22 08:00 | 07/27/22 10:54 | 1       |

Lab Sample ID: LCS 880-30709/1-A

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30709

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09414    |               | mg/Kg |   | 94   | 70 - 130    |
| Toluene             | 0.100       | 0.09289    |               | mg/Kg |   | 93   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09941    |               | mg/Kg |   | 99   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1985     |               | mg/Kg |   | 99   | 70 - 130    |
| o-Xylene            | 0.100       | 0.1087     |               | mg/Kg |   | 109  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 110           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99            |               | 70 - 130 |

Lab Sample ID: LCSD 880-30709/2-A

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30709

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09253     |                | mg/Kg |   | 93   | 70 - 130    | 2   | 35        |
| Toluene             | 0.100       | 0.09148     |                | mg/Kg |   | 91   | 70 - 130    | 2   | 35        |
| Ethylbenzene        | 0.100       | 0.09626     |                | mg/Kg |   | 96   | 70 - 130    | 3   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1928      |                | mg/Kg |   | 96   | 70 - 130    | 3   | 35        |
| o-Xylene            | 0.100       | 0.1052      |                | mg/Kg |   | 105  | 70 - 130    | 3   | 35        |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

|                             | LCSD      | LCSD      |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 |

Lab Sample ID: 880-17263-A-16-E MS

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30709

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U F1             | 0.0998      | 0.03151   | F1           | mg/Kg |   | 32   | 70 - 130    |
| Toluene             | <0.00199      | U F1             | 0.0998      | 0.03037   | F1           | mg/Kg |   | 30   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F1             | 0.0998      | 0.02646   | F1           | mg/Kg |   | 27   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.200       | 0.03952   | F1           | mg/Kg |   | 20   | 70 - 130    |
| o-Xylene            | <0.00199      | U F1             | 0.0998      | 0.02829   | F1           | mg/Kg |   | 28   | 70 - 130    |

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 |

Lab Sample ID: 880-17263-A-16-F MSD

Matrix: Solid

Analysis Batch: 30747

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30709

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00199      | U F1             | 0.0994      | 0.03891    | F1            | mg/Kg |   | 39   | 70 - 130    | 21  | 35    |
| Toluene             | <0.00199      | U F1             | 0.0994      | 0.03672    | F1            | mg/Kg |   | 37   | 70 - 130    | 19  | 35    |
| Ethylbenzene        | <0.00199      | U F1             | 0.0994      | 0.03381    | F1            | mg/Kg |   | 34   | 70 - 130    | 24  | 35    |
| m-Xylene & p-Xylene | <0.00398      | U F1 F2          | 0.199       | 0.06725    | F1 F2         | mg/Kg |   | 34   | 70 - 130    | 52  | 35    |
| o-Xylene            | <0.00199      | U F1             | 0.0994      | 0.03668    | F1            | mg/Kg |   | 37   | 70 - 130    | 26  | 35    |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-30505/1-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30505

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 11:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 11:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 07/25/22 08:46 | 07/25/22 11:04 | 1       |

|                | MB        | MB        |          |                |                |         |  |  |  |
|----------------|-----------|-----------|----------|----------------|----------------|---------|--|--|--|
| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |  |  |  |
| 1-Chlorooctane | 111       |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 11:04 | 1       |  |  |  |
| o-Terphenyl    | 125       |           | 70 - 130 | 07/25/22 08:46 | 07/25/22 11:04 | 1       |  |  |  |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-30505/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30505

| Analyte                              |           |           | Spike    | LCS    | LCS       | Unit  | D | %Rec |          |  |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|
|                                      |           |           | Added    | Result | Qualifier |       |   | %Rec |          |  |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 946.1  |           | mg/Kg |   | 95   | 70 - 130 |  |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 1149   |           | mg/Kg |   | 115  | 70 - 130 |  |
|                                      |           | LCS       | LCS      |        |           |       |   |      |          |  |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |        |           |       |   |      |          |  |
| o-Terphenyl                          | 89        |           | 70 - 130 |        |           |       |   |      |          |  |

Lab Sample ID: LCSD 880-30505/3-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30505

| Analyte                              |           |           | Spike    | LCSD   | LCSD      | Unit  | D | %Rec   | %Rec     | RPD | RPD |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|--------|----------|-----|-----|
|                                      |           |           | Added    | Result | Qualifier |       |   | Limits | Limit    |     |     |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 907.5  |           | mg/Kg |   | 91     | 70 - 130 | 4   | 20  |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 1081   |           | mg/Kg |   | 108    | 70 - 130 | 6   | 20  |
| Surrogate                            | LCSD      |           | Limits   |        |           |       |   |        |          |     |     |
|                                      | %Recovery | Qualifier |          |        |           |       |   |        |          |     |     |
| 1-Chlorooctane                       | 87        |           | 70 - 130 |        |           |       |   |        |          |     |     |
| o-Terphenyl                          | 87        |           | 70 - 130 |        |           |       |   |        |          |     |     |

Lab Sample ID: 880-17259-A-1-K MS

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30505

| Analyte                              | Sample       | Sample       | Spike    | MS     | MS        | Unit  | D | %Rec   | %Rec     |  |  |
|--------------------------------------|--------------|--------------|----------|--------|-----------|-------|---|--------|----------|--|--|
|                                      | Result       | Qualifier    | Added    | Result | Qualifier |       |   | Limits |          |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0        | U F1         | 1000     | 713.3  | F1        | mg/Kg |   | 67     | 70 - 130 |  |  |
| Diesel Range Organics (Over C10-C28) | 56.0         | F2 F1        | 1000     | 728.6  | F1        | mg/Kg |   | 67     | 70 - 130 |  |  |
| Surrogate                            | MS %Recovery | MS Qualifier | Limits   |        |           |       |   |        |          |  |  |
| 1-Chlorooctane                       | 74           |              | 70 - 130 |        |           |       |   |        |          |  |  |
| o-Terphenyl                          | 66           | S1-          | 70 - 130 |        |           |       |   |        |          |  |  |

Lab Sample ID: 880-17259-A-1-L MSD

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30505

|                                      | Sample    | Sample    | Spike    | MSD    | MSD       |       |   | %Rec |          | RPD |       |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result    | Qualifier | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U F1      | 999      | 693.1  | F1        | mg/Kg |   | 65   | 70 - 130 | 3   | 20    |
| Diesel Range Organics (Over C10-C28) | 56.0      | F2 F1     | 999      | 533.6  | F1 F2     | mg/Kg |   | 48   | 70 - 130 | 31  | 20    |
|                                      | MSD       | MSD       |          |        |           |       |   |      |          |     |       |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 54        | S1-       | 70 - 130 |        |           |       |   |      |          |     |       |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17259-A-1-L MSD

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30505

|                     | MSD       | MSD       |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| <i>o</i> -Terphenyl | 48        | S1-       | 70 - 130 |

Lab Sample ID: MB 880-30506/1-A

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30506

|                                      | MB        | MB        |          |     |       |   |                |                |     |     |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|-----|-----|
| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil | Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 11:08 | 1   |     |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 11:08 | 1   |     |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 08:52 | 07/25/22 11:08 | 1   |     |
|                                      | MB        | MB        |          |     |       |   |                |                |     |     |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil | Fac |
| 1-Chlorooctane                       | 94        |           | 70 - 130 |     |       |   | 07/25/22 08:52 | 07/25/22 11:08 | 1   |     |
| <i>o</i> -Terphenyl                  | 111       |           | 70 - 130 |     |       |   | 07/25/22 08:52 | 07/25/22 11:08 | 1   |     |

Lab Sample ID: LCS 880-30506/2-A

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30506

|                                      |           | Spike     | LCS      | LCS       |       |   |      | %Rec     |  |  |
|--------------------------------------|-----------|-----------|----------|-----------|-------|---|------|----------|--|--|
| Analyte                              |           | Added     | Result   | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Gasoline Range Organics (GRO)-C6-C10 |           | 1000      | 1023     |           | mg/Kg |   | 102  | 70 - 130 |  |  |
| Diesel Range Organics (Over C10-C28) |           | 1000      | 1154     |           | mg/Kg |   | 115  | 70 - 130 |  |  |
|                                      | LCS       | LCS       |          |           |       |   |      |          |  |  |
| Surrogate                            | %Recovery | Qualifier | Limits   |           |       |   |      |          |  |  |
| 1-Chlorooctane                       | 110       |           | 70 - 130 |           |       |   |      |          |  |  |
| <i>o</i> -Terphenyl                  | 111       |           | 70 - 130 |           |       |   |      |          |  |  |

Lab Sample ID: LCSD 880-30506/3-A

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30506

|                                      |           |           | Spike    | LCSD   | LCSD      |       |   |      | %Rec     | RPD |       |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 1152   |           | mg/Kg |   | 115  | 70 - 130 | 12  | 20    |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 1374   | *+        | mg/Kg |   | 137  | 70 - 130 | 17  | 20    |
|                                      |           |           | LCSD     | LCSD   |           |       |   |      |          |     |       |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 122       |           | 70 - 130 |        |           |       |   |      |          |     |       |
| o-Terphenyl                          | 126       |           | 70 - 130 |        |           |       |   |      |          |     |       |

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17258-A-1-C MS

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 30506

|                                      | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec     |  |  |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|--|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 1000  | 1040   |           | mg/Kg |   | 102  | 70 - 130 |  |  |
| Diesel Range Organics (Over C10-C28) | <50.0  | U *+      | 1000  | 867.9  |           | mg/Kg |   | 85   | 70 - 130 |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |
|                                      |        |           |       |        |           |       |   |      |          |  |  |

Lab Sample ID: 880-17258-A-1-D MSD

Matrix: Solid

Analysis Batch: 30514

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 30506

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 999         | 1053       |               | mg/Kg |   | 103  | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U *              | 999         | 880.0      |               | mg/Kg |   | 86   | 70 - 130    | 1   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 85            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 83            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

Lab Sample ID: MB 880-30590/1-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30590

| Analyte                              | MB        | MB        | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
|                                      | Result    | Qualifier |          |     |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 20:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 20:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/25/22 12:08 | 07/25/22 20:46 | 1       |
| Surrogate                            | MB        | MB        | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
|                                      | %Recovery | Qualifier |          |     |       |   |                |                |         |
| 1-Chlorooctane                       | 99        |           | 70 - 130 |     |       |   | 07/25/22 12:08 | 07/25/22 20:46 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |     |       |   | 07/25/22 12:08 | 07/25/22 20:46 | 1       |

Lab Sample ID: LCS 880-30590/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30590

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1137       |               | mg/Kg |   | 114  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1051       |               | mg/Kg |   | 105  | 70 - 130    |

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-30590/2-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30590

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 98        |           | 70 - 130 |
| o-Terphenyl    | 95        |           | 70 - 130 |

Lab Sample ID: LCSD 880-30590/3-A

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30590

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1165        |                | mg/Kg |   | 116  | 70 - 130    | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1008        |                | mg/Kg |   | 101  | 70 - 130    | 4   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 95        |           | 70 - 130 |

Lab Sample ID: 880-17262-11 MS

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 30590

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 1000        | 957.8     |              | mg/Kg |   | 93   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 1000        | 765.6     |              | mg/Kg |   | 74   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 69        | S1-       | 70 - 130 |
| o-Terphenyl    | 64        | S1-       | 70 - 130 |

Lab Sample ID: 880-17262-11 MSD

Matrix: Solid

Analysis Batch: 30512

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 30590

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 999         | 892.4      |               | mg/Kg |   | 87   | 70 - 130    | 7   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 999         | 920.8      |               | mg/Kg |   | 90   | 70 - 130    | 18  | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 81        |           | 70 - 130 |
| o-Terphenyl    | 75        |           | 70 - 130 |

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30401/1-A

Matrix: Solid

Analysis Batch: 30488

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 07/25/22 03:11 | 1       |

Lab Sample ID: LCS 880-30401/2-A

Matrix: Solid

Analysis Batch: 30488

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 264.9         |                  | mg/Kg |   | 106  | 90 - 110       |

Lab Sample ID: LCSD 880-30401/3-A

Matrix: Solid

Analysis Batch: 30488

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 269.8          |                   | mg/Kg |   | 108  | 90 - 110       | 2   | 20           |

Lab Sample ID: 880-17260-A-11-F MS

Matrix: Solid

Analysis Batch: 30488

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 897              | F1                  | 250            | 1110         | F1              | mg/Kg |   | 85   | 90 - 110       |

Lab Sample ID: 880-17260-A-11-G MSD

Matrix: Solid

Analysis Batch: 30488

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 897              | F1                  | 250            | 1109          | F1               | mg/Kg |   | 85   | 90 - 110       | 0   | 20           |

Lab Sample ID: MB 880-30402/1-A

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 07/25/22 07:24 | 1       |

Lab Sample ID: LCS 880-30402/2-A

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 270.4         |                  | mg/Kg |   | 108  | 90 - 110       |

Lab Sample ID: LCSD 880-30402/3-A

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 264.5          |                   | mg/Kg |   | 106  | 90 - 110       | 2   | 20           |

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-17262-3 MS

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: S-1 (2.0')

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |  |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|--|
| Chloride | 14300            | F1                  | 4960           | 21420        | F1              | mg/Kg |   | 144  | 90 - 110       |  |  |

Lab Sample ID: 880-17262-3 MSD

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: S-1 (2.0')

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 14300            | F1                  | 4960           | 21470         | F1               | mg/Kg |   | 145  | 90 - 110       | 0   | 20           |

Lab Sample ID: 880-17262-13 MS

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: H-3 (0-0.5')

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |  |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|--|
| Chloride | 11.5             | F1                  | 253            | 317.6        | F1              | mg/Kg |   | 121  | 90 - 110       |  |  |

Lab Sample ID: 880-17262-13 MSD

Matrix: Solid

Analysis Batch: 30489

Client Sample ID: H-3 (0-0.5')

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 11.5             | F1                  | 253            | 316.5         | F1               | mg/Kg |   | 121  | 90 - 110       | 0   | 20           |

## QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## GC VOA

## Prep Batch: 30426

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-1         | S-1 (0-1')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-2         | S-1 (1.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-3         | S-1 (2.0')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-4         | S-1 (2.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-5         | S-1 (3.0')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-6         | S-1 (3.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-7         | S-2 (0-1')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-8         | S-2 (1.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-9         | S-2 (2.0')             | Total/NA  | Solid  | 5035   |            |
| MB 880-30426/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-30426/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-30426/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-17284-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-17284-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 30473

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-1         | S-1 (0-1')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-2         | S-1 (1.5')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-3         | S-1 (2.0')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-4         | S-1 (2.5')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-5         | S-1 (3.0')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-6         | S-1 (3.5')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-7         | S-2 (0-1')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-8         | S-2 (1.5')             | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17262-9         | S-2 (2.0')             | Total/NA  | Solid  | 8021B  | 30426      |
| MB 880-30426/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 30426      |
| LCS 880-30426/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 30426      |
| LCSD 880-30426/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17284-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 30426      |
| 880-17284-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 30426      |

## Prep Batch: 30478

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-10         | S-2 (2.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-11         | H-1 (0-0.5')           | Total/NA  | Solid  | 5035   |            |
| 880-17262-12         | H-2 (0-0.5')           | Total/NA  | Solid  | 5035   |            |
| 880-17262-13         | H-3 (0-0.5')           | Total/NA  | Solid  | 5035   |            |
| 880-17262-14         | H-4 (0-0.5')           | Total/NA  | Solid  | 5035   |            |
| MB 880-30478/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-30478/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-30478/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-17264-A-22-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-17264-A-22-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 30484

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 880-17262-10  | S-2 (2.5')       | Total/NA  | Solid  | 8021B  | 30478      |
| 880-17262-11  | H-1 (0-0.5')     | Total/NA  | Solid  | 8021B  | 30478      |
| 880-17262-12  | H-2 (0-0.5')     | Total/NA  | Solid  | 8021B  | 30478      |
| 880-17262-13  | H-3 (0-0.5')     | Total/NA  | Solid  | 8021B  | 30478      |

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## GC VOA (Continued)

## Analysis Batch: 30484 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-14         | H-4 (0-0.5')           | Total/NA  | Solid  | 8021B  | 30478      |
| MB 880-30478/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 30478      |
| LCS 880-30478/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 30478      |
| LCSD 880-30478/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 30478      |
| 880-17264-A-22-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 30478      |
| 880-17264-A-22-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 30478      |

## Analysis Batch: 30550

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-17262-1   | S-1 (0-1')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-2   | S-1 (1.5')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-3   | S-1 (2.0')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-4   | S-1 (2.5')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-5   | S-1 (3.0')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-6   | S-1 (3.5')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-7   | S-2 (0-1')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-8   | S-2 (1.5')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-9   | S-2 (2.0')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-10  | S-2 (2.5')       | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-11  | H-1 (0-0.5')     | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-12  | H-2 (0-0.5')     | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-13  | H-3 (0-0.5')     | Total/NA  | Solid  | Total BTEX |            |
| 880-17262-14  | H-4 (0-0.5')     | Total/NA  | Solid  | Total BTEX |            |

## Prep Batch: 30562

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 880-30562/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-30562/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-30562/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2603-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2603-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 30657

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-2         | S-1 (1.5')             | Total/NA  | Solid  | 8021B  | 30664      |
| 880-17262-3         | S-1 (2.0')             | Total/NA  | Solid  | 8021B  | 30664      |
| 880-17262-4         | S-1 (2.5')             | Total/NA  | Solid  | 8021B  | 30664      |
| 880-17262-5         | S-1 (3.0')             | Total/NA  | Solid  | 8021B  | 30664      |
| 880-17262-6         | S-1 (3.5')             | Total/NA  | Solid  | 8021B  | 30664      |
| MB 880-30562/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 30562      |
| MB 880-30664/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 30664      |
| LCS 880-30562/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 30562      |
| LCS 880-30664/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 30664      |
| LCSD 880-30562/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 30562      |
| LCSD 880-30664/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 30664      |
| 880-17132-A-4-F MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 30664      |
| 880-17132-A-4-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 30664      |
| 890-2603-A-1-D MS   | Matrix Spike           | Total/NA  | Solid  | 8021B  | 30562      |
| 890-2603-A-1-E MSD  | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 30562      |

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## GC VOA

## Prep Batch: 30664

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-2         | S-1 (1.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-3         | S-1 (2.0')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-4         | S-1 (2.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-5         | S-1 (3.0')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-6         | S-1 (3.5')             | Total/NA  | Solid  | 5035   |            |
| MB 880-30664/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-30664/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-30664/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-17132-A-4-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-17132-A-4-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 30709

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-4          | S-1 (2.5')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-5          | S-1 (3.0')             | Total/NA  | Solid  | 5035   |            |
| 880-17262-6          | S-1 (3.5')             | Total/NA  | Solid  | 5035   |            |
| MB 880-30709/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-30709/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-30709/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-17263-A-16-E MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-17263-A-16-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 30747

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-4          | S-1 (2.5')             | Total/NA  | Solid  | 8021B  | 30709      |
| 880-17262-5          | S-1 (3.0')             | Total/NA  | Solid  | 8021B  | 30709      |
| 880-17262-6          | S-1 (3.5')             | Total/NA  | Solid  | 8021B  | 30709      |
| MB 880-30709/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 30709      |
| LCS 880-30709/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 30709      |
| LCSD 880-30709/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 30709      |
| 880-17263-A-16-E MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 30709      |
| 880-17263-A-16-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 30709      |

## GC Semi VOA

## Prep Batch: 30505

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-17262-1        | S-1 (0-1')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-2        | S-1 (1.5')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-3        | S-1 (2.0')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-4        | S-1 (2.5')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-5        | S-1 (3.0')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-6        | S-1 (3.5')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-7        | S-2 (0-1')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-8        | S-2 (1.5')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-9        | S-2 (2.0')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-10       | S-2 (2.5')             | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-30505/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-30505/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-30505/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17259-A-1-K MS | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Prep Batch: 30505 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-17259-A-1-L MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Prep Batch: 30506

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-17262-13        | H-3 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-14        | H-4 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-30506/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-30506/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-30506/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17258-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17258-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 30512

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-17262-1         | S-1 (0-1')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-2         | S-1 (1.5')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-3         | S-1 (2.0')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-4         | S-1 (2.5')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-5         | S-1 (3.0')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-6         | S-1 (3.5')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-7         | S-2 (0-1')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-8         | S-2 (1.5')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-9         | S-2 (2.0')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-10        | S-2 (2.5')             | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-11        | H-1 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 30590      |
| 880-17262-12        | H-2 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 30590      |
| MB 880-30505/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 30505      |
| MB 880-30590/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 30590      |
| LCS 880-30505/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 30505      |
| LCS 880-30590/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 30590      |
| LCSD 880-30505/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 30505      |
| LCSD 880-30590/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 30590      |
| 880-17259-A-1-K MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17259-A-1-L MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 30505      |
| 880-17262-11 MS     | H-1 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 30590      |
| 880-17262-11 MSD    | H-1 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 30590      |

## Analysis Batch: 30514

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-17262-13        | H-3 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 30506      |
| 880-17262-14        | H-4 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 30506      |
| MB 880-30506/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 30506      |
| LCS 880-30506/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 30506      |
| LCSD 880-30506/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 30506      |
| 880-17258-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 30506      |
| 880-17258-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 30506      |

## Prep Batch: 30590

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 880-17262-11  | H-1 (0-0.5')     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-12  | H-2 (0-0.5')     | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Prep Batch: 30590 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| MB 880-30590/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-30590/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-30590/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-11 MS    | H-1 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-17262-11 MSD   | H-1 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 30638

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-17262-1   | S-1 (0-1')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-2   | S-1 (1.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-3   | S-1 (2.0')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-4   | S-1 (2.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-5   | S-1 (3.0')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-6   | S-1 (3.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-7   | S-2 (0-1')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-8   | S-2 (1.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-9   | S-2 (2.0')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-10  | S-2 (2.5')       | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-11  | H-1 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-12  | H-2 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-13  | H-3 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |
| 880-17262-14  | H-4 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 30401

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-17262-1          | S-1 (0-1')             | Soluble   | Solid  | DI Leach |            |
| 880-17262-2          | S-1 (1.5')             | Soluble   | Solid  | DI Leach |            |
| MB 880-30401/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-30401/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-30401/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-17260-A-11-F MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-17260-A-11-G MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 30402

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 880-17262-3       | S-1 (2.0')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-4       | S-1 (2.5')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-5       | S-1 (3.0')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-6       | S-1 (3.5')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-7       | S-2 (0-1')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-8       | S-2 (1.5')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-9       | S-2 (2.0')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-10      | S-2 (2.5')         | Soluble   | Solid  | DI Leach |            |
| 880-17262-11      | H-1 (0-0.5')       | Soluble   | Solid  | DI Leach |            |
| 880-17262-12      | H-2 (0-0.5')       | Soluble   | Solid  | DI Leach |            |
| 880-17262-13      | H-3 (0-0.5')       | Soluble   | Solid  | DI Leach |            |
| 880-17262-14      | H-4 (0-0.5')       | Soluble   | Solid  | DI Leach |            |
| MB 880-30402/1-A  | Method Blank       | Soluble   | Solid  | DI Leach |            |
| LCS 880-30402/2-A | Lab Control Sample | Soluble   | Solid  | DI Leach |            |

Eurofins Midland

## QC Association Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## HPLC/IC (Continued)

## Leach Batch: 30402 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-30402/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-17262-3 MS     | S-1 (2.0')             | Soluble   | Solid  | DI Leach |            |
| 880-17262-3 MSD    | S-1 (2.0')             | Soluble   | Solid  | DI Leach |            |
| 880-17262-13 MS    | H-3 (0-0.5')           | Soluble   | Solid  | DI Leach |            |
| 880-17262-13 MSD   | H-3 (0-0.5')           | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 30488

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-1          | S-1 (0-1')             | Soluble   | Solid  | 300.0  | 30401      |
| 880-17262-2          | S-1 (1.5')             | Soluble   | Solid  | 300.0  | 30401      |
| MB 880-30401/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 30401      |
| LCS 880-30401/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 30401      |
| LCSD 880-30401/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 30401      |
| 880-17260-A-11-F MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 30401      |
| 880-17260-A-11-G MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 30401      |

## Analysis Batch: 30489

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-17262-3        | S-1 (2.0')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-4        | S-1 (2.5')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-5        | S-1 (3.0')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-6        | S-1 (3.5')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-7        | S-2 (0-1')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-8        | S-2 (1.5')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-9        | S-2 (2.0')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-10       | S-2 (2.5')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-11       | H-1 (0-0.5')           | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-12       | H-2 (0-0.5')           | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-13       | H-3 (0-0.5')           | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-14       | H-4 (0-0.5')           | Soluble   | Solid  | 300.0  | 30402      |
| MB 880-30402/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 30402      |
| LCS 880-30402/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 30402      |
| LCSD 880-30402/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-3 MS     | S-1 (2.0')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-3 MSD    | S-1 (2.0')             | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-13 MS    | H-3 (0-0.5')           | Soluble   | Solid  | 300.0  | 30402      |
| 880-17262-13 MSD   | H-3 (0-0.5')           | Soluble   | Solid  | 300.0  | 30402      |

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (0-1')

Lab Sample ID: 880-17262-1

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 50         | 5 mL           | 5 mL         | 30473        | 07/23/22 21:00       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 16:48       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 30401        | 07/22/22 12:00       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 30488        | 07/25/22 06:58       | CH      | XEN MID |

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-17262-2

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 50         | 5 mL           | 5 mL         | 30473        | 07/23/22 21:20       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 30664        | 07/26/22 09:25       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 250        | 5 mL           | 5 mL         | 30657        | 07/26/22 18:32       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 17:09       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 30401        | 07/22/22 12:00       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 30488        | 07/25/22 07:06       | CH      | XEN MID |

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-17262-3

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 50         | 5 mL           | 5 mL         | 30473        | 07/23/22 21:41       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 30664        | 07/26/22 09:25       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 250        | 5 mL           | 5 mL         | 30657        | 07/26/22 18:53       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 17:31       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 30489        | 07/25/22 07:51       | CH      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-17262-4

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 50         | 5 mL           | 5 mL         | 30473        | 07/23/22 22:01       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 30664        | 07/26/22 09:25       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 250        | 5 mL           | 5 mL         | 30657        | 07/26/22 19:14       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 30709        | 07/27/22 10:00       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1000       | 5 mL           | 5 mL         | 30747        | 07/27/22 13:40       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 17:52       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 30489        | 07/25/22 08:19       | CH      | XEN MID |

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-17262-5

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 50         | 5 mL           | 5 mL         | 30473        | 07/23/22 22:22       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 30664        | 07/26/22 09:25       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 250        | 5 mL           | 5 mL         | 30657        | 07/26/22 19:34       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 30709        | 07/27/22 10:00       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1000       | 5 mL           | 5 mL         | 30747        | 07/27/22 14:00       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 18:14       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 30489        | 07/25/22 08:28       | CH      | XEN MID |

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 50         | 5 mL           | 5 mL         | 30473        | 07/23/22 22:42       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 30664        | 07/26/22 09:25       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 250        | 5 mL           | 5 mL         | 30657        | 07/26/22 19:55       | MR      | XEN MID |
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 30709        | 07/27/22 10:00       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1000       | 5 mL           | 5 mL         | 30747        | 07/27/22 14:21       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-17262-6

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 18:36       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 30489        | 07/25/22 08:37       | CH      | XEN MID |

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-17262-7

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30473        | 07/23/22 19:58       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 18:57       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20         |                |              | 30489        | 07/25/22 08:47       | CH      | XEN MID |

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-17262-8

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30473        | 07/23/22 20:19       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 19:19       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 30489        | 07/25/22 09:14       | CH      | XEN MID |

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-17262-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 30426        | 07/22/22 15:06       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30473        | 07/23/22 20:39       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 19:41       | AJ      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Client Sample ID: S-2 (2.0')

## Lab Sample ID: 880-17262-9

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 30489        | 07/25/22 09:24       | CH      | XEN MID |

## Client Sample ID: S-2 (2.5')

## Lab Sample ID: 880-17262-10

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.978 g        | 5 mL         | 30478        | 07/23/22 18:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30484        | 07/24/22 19:20       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 30505        | 07/25/22 08:46       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 20:03       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 30489        | 07/25/22 09:33       | CH      | XEN MID |

## Client Sample ID: H-1 (0-0.5')

## Lab Sample ID: 880-17262-11

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 30478        | 07/23/22 18:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30484        | 07/24/22 19:41       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 30590        | 07/25/22 12:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 21:51       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 30489        | 07/25/22 09:42       | CH      | XEN MID |

## Client Sample ID: H-2 (0-0.5')

## Lab Sample ID: 880-17262-12

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 30478        | 07/23/22 18:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30484        | 07/24/22 20:01       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 30590        | 07/25/22 12:08       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30512        | 07/25/22 22:56       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 30489        | 07/25/22 09:51       | CH      | XEN MID |

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-17262-13

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 30478        | 07/23/22 18:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30484        | 07/24/22 20:22       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 30506        | 07/25/22 08:52       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30514        | 07/25/22 15:25       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 30489        | 07/25/22 10:00       | CH      | XEN MID |

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-17262-14

Date Collected: 07/21/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 30478        | 07/23/22 18:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 30484        | 07/24/22 20:42       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 30550        | 07/25/22 10:43       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 30638        | 07/25/22 16:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 30506        | 07/25/22 08:52       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 30514        | 07/25/22 15:46       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 30402        | 07/22/22 12:03       | SMC     | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 30489        | 07/25/22 10:28       | CH      | XEN MID |

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-24      | 06-30-23        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte                              |
|-----------------|-------------|--------|--------------------------------------|
| 300.0           |             | Solid  | Chloride                             |
| 8015 NM         |             | Solid  | Total TPH                            |
| 8015B NM        | 8015NM Prep | Solid  | Diesel Range Organics (Over C10-C28) |
| 8015B NM        | 8015NM Prep | Solid  | Gasoline Range Organics (GRO)-C6-C10 |
| 8015B NM        | 8015NM Prep | Solid  | Oil Range Organics (Over C28-C36)    |
| 8021B           | 5035        | Solid  | Benzene                              |
| 8021B           | 5035        | Solid  | Ethylbenzene                         |
| 8021B           | 5035        | Solid  | m-Xylene & p-Xylene                  |
| 8021B           | 5035        | Solid  | o-Xylene                             |
| 8021B           | 5035        | Solid  | Toluene                              |
| 8021B           | 5035        | Solid  | Xylenes, Total                       |
| Total BTEX      |             | Solid  | Total BTEX                           |

## Method Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

## Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Carmona Resources  
Project/Site: Diamondback

Job ID: 880-17262-1  
SDG: Eddy Co, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 880-17262-1   | S-1 (0-1')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-2   | S-1 (1.5')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-3   | S-1 (2.0')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-4   | S-1 (2.5')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-5   | S-1 (3.0')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-6   | S-1 (3.5')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-7   | S-2 (0-1')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-8   | S-2 (1.5')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-9   | S-2 (2.0')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-10  | S-2 (2.5')       | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-11  | H-1 (0-0.5')     | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-12  | H-2 (0-0.5')     | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-13  | H-3 (0-0.5')     | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |
| 880-17262-14  | H-4 (0-0.5')     | Solid  | 07/21/22 00:00 | 07/22/22 10:05 |

- 1
- 2
- 3
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- 11
- 12
- 13
- 14

Work Order No: 17262

Page 1 of 2

|                 |                       |                        |                                  |
|-----------------|-----------------------|------------------------|----------------------------------|
| Project Manager | Conner Mohering       | Bill to (if different) | Jacqui Harris                    |
| Company Name    | Carmona Resources     | Company Name           | COG                              |
| Address         | 310 W Wall St Ste 415 | Address                | 15 W London Rd                   |
| City, State ZIP | Midland, TX 79701     | City, State ZIP        | Loving, NM 88256                 |
| Phone           | 432-813-9044          | Email                  | jacqui.harris@conocophillips.com |

|                     |                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Work Order Comments |                                                                                                                                     |
| Program: UST/PST    | <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> JRC <input type="checkbox"/> Superfund   |
| State of Project.   |                                                                                                                                     |
| Reporting Level II  | <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV |
| Deliverables        | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other                                                                   |

|                       |                  |                                                              |                                                                           |             |                  |           |   |   |   |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
|-----------------------|------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|-------------|------------------|-----------|---|---|---|--|--|--|--|--|-----------------------------------------------------------------|----------------------------|-----------------|--|--|--|--|
| Project Name          | Diamondback      | Turn Around                                                  | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush | Press. Code | ANALYSIS REQUEST |           |   |   |   |  |  |  |  |  | Preservative Codes                                              |                            |                 |  |  |  |  |
| Project Number        | 1100             |                                                              |                                                                           |             |                  |           |   |   |   |  |  |  |  |  | None NO                                                         | DI Water- H <sub>2</sub> O |                 |  |  |  |  |
| Project Location      | Eddy Co, NM      | Due Date                                                     | 72 Hr                                                                     |             |                  |           |   |   |   |  |  |  |  |  | Cool Cool                                                       | MeOH Me                    |                 |  |  |  |  |
| Sampler's Name        | CM               | TAT starts the day received by the lab if received by 4:30pm |                                                                           |             |                  |           |   |   |   |  |  |  |  |  | HCL HC                                                          | HNO <sub>3</sub> HN        |                 |  |  |  |  |
| PO #                  |                  |                                                              |                                                                           |             |                  |           |   |   |   |  |  |  |  |  | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>                   | NaOH Na                    |                 |  |  |  |  |
| SAMPLE RECEIPT        | Temp Mark Yes No | Yes No                                                       | Well Ice Yes No                                                           |             |                  |           |   |   |   |  |  |  |  |  | H <sub>3</sub> PO <sub>4</sub> HP                               |                            |                 |  |  |  |  |
| Received Intact       | Yes No           | Thermometer ID                                               |                                                                           |             |                  |           |   |   |   |  |  |  |  |  | NaHSO <sub>4</sub> NABIS                                        |                            |                 |  |  |  |  |
| Cooler Custody Seals  | Yes No           | Correction Factor                                            |                                                                           |             |                  |           |   |   |   |  |  |  |  |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> |                            |                 |  |  |  |  |
| Sample Custody Seals  | Yes No           | Temperature Reading                                          |                                                                           |             |                  |           |   |   |   |  |  |  |  |  | Zn Acetate-NaOH Zn                                              |                            |                 |  |  |  |  |
| Total Containers      |                  | Corrected Temperature                                        |                                                                           |             |                  |           |   |   |   |  |  |  |  |  | NaOH+Ascorbic Acid SAPC                                         |                            |                 |  |  |  |  |
| Sample Identification | Date             | Time                                                         | Soil                                                                      | Water       | Grab/ Comp       | # of Cont |   |   |   |  |  |  |  |  |                                                                 |                            | Sample Comments |  |  |  |  |
| S-1 (0-1')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-1 (1.5')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-1 (2.0')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-1 (2.5')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-1 (3.0')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-1 (3.5')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-2 (0-1')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-2 (1.5')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-2 (2.0')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |
| S-2 (2.5')            | 7/21/2022        | -                                                            | X                                                                         |             | Grab/            | 1         | X | X | X |  |  |  |  |  |                                                                 |                            |                 |  |  |  |  |

Comments:



880-17262 Chain of Custody

|                             |           |                         |           |
|-----------------------------|-----------|-------------------------|-----------|
| Relinquished by (Signature) | Date/Time | Received by (Signature) | Date/Time |
|                             | 6/29/2022 |                         | 7/22/22   |
|                             | 10:05     |                         |           |

| Work Order Comments                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Program, UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund      |  |
| State of Project:                                                                                                                                      |  |
| Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV |  |
| Deliverables, EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other                                                                        |  |

**Comments:**

| Date/Time | Received by (Signature)                                                             | Date/Time |
|-----------|-------------------------------------------------------------------------------------|-----------|
| 6/20/2022 |  |           |
| 7/22/22   |                                                                                     |           |
| 10:05     |                                                                                     |           |

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-17262-1

SDG Number: Eddy Co, NM

Login Number: 17262

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |

**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 142234

**CONDITIONS**

|                                                                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137                                          |
|                                                                           | Action Number:<br>142234                                  |
|                                                                           | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Condition Date |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| jnobui     | Remediation Plan Approved with Conditions. This release does not meet criteria for DTW 51-100'. This release occurs in a high karst region and must follow the most stringent criteria for DTW <50' (600 mg/kg chloride, 100 mg/kg TPH etc). OCD requires that contamination be removed from the release per 19.15.29.12 NMAC criteria. If impact cannot be addressed during excavation activities, as this location is off pad and a deferral cannot be granted, please contact OCD immediately to discuss options. | 11/14/2022     |