

### SITE INFORMATION

Closure Report Lusk Deep Unit 028H (10.24.2023) Incident #: nAPP2333132247 Lea County, New Mexico Unit K Sec 18 T19S R32E 32.6572°, -103.8091°

Produced Water Release Point of Release: Two pinhole leaks from a possible gunshot Release Date: 10.24.2023 Volume Released: 6.7368 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 500 Midland, Texas 79701

> 310 West Wall Street, Suite 500 Midland TX, 79701 432.813.1992



#### TABLE OF CONTENTS

**1.0 SITE INFORMATION AND BACKGROUND** 

2.0 SITE CHARACTERIZATION AND GROUNDWATER

**3.0 NMAC REGULATORY CRITERIA** 

4.0 SITE ASSESSMENT ACTIVITIES

**5.0 REMEDIATION ACTIVITIES** 

6.0 RECLAMATION ACTIVITIES

7.0 CONCLUSIONS

### **FIGURES**

| FIGURE 1   | OVERVIEW                | FIGURE 2      | TOPOGRAPHIC |
|------------|-------------------------|---------------|-------------|
| FIGURE 3   | SAMPLE LOCATION         | FIGURE 4      | EXCAVATION  |
| FIGURE 5   | RECLAMATION             |               |             |
|            | APPE                    | <u>NDICES</u> |             |
| APPENDIX A | TABLES                  |               |             |
| APPENDIX B | PHOTOS                  |               |             |
| APPENDIX C | INITIAL AND FINAL C-141 | /NMOCD CORR   | ESPONDENCE  |
| APPENDIX D | SITE CHARACTERIZATIO    | ON AND GROUNI | OWATER      |
| APPENDIX E | LABORATORY REPORTS      |               |             |
| APPENDIX F | SOIL SURVEY AND MAP     |               |             |



December 27, 2023

New Mexico Oil Conservation Division 1220 South St, Francis Drive Santa Fe, NM 87505

Re: Closure Report Lusk Deep Unit 028H (10.24.2023) Concho Operating, LLC Site Location: Unit K, S18, T19S, R32E (Lat 32.6572°, Long -103.8091°) Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Lusk Deep Unit 028H. The site is located at 32.6572, -103.8091 within Unit K, S18, T19S, R32E, in Lea 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 October 24, 2023, from a pinhole leak caused by a possible gunshot. It resulted in approximately six point seven three six eight (6.7368) barrels of produced water being released and zero (0) barrels of produced water being The impacted area occurred in the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

#### 2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 0.71 miles Southeast of the site in S19, T19S, R32E and was drilled in 1982. The well has a reported depth to groundwater of 102 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

### 3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, thefollowing 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: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

#### **4.0 Site Assessment Activities**

### Initial Assessment

On November 20, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) sample point (S-1) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 4' bgs inside and surrounding the release area. See Figure 3 for the 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

Vertical delineation was not achieved due to dense geological formation at 4' bgs. 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 Remediation/Reclamation Activities**

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on November 28, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 5.0'. A total of five (5) confirmation floor samples were collected (CS-1 through CS-5), and six (6) sidewall samples (SW-1 through SW-6) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Approximately 220 cubic yards of material were excavated and transported offsite for proper disposal.

### **6.0 Reclamation Activities**

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The backfilled areas were seeded On December 8, 2023. The appropriate pounds of pure live seed per acre were used. The seeds were applied via hand broadcasting method due to the area being less than <sup>1</sup>/<sub>4</sub> acres. The surrounding topsoil was raked onto the seed to aid the vegetation process. The seed mixture used was BLM Seed Mix #2 (See attachments in Appendix F).

#### 7.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and COG formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely, Carmona Resources, LLC

Mike Carmona Environmental Manager

Conner Moehring Sr. Project Manager

310 West Wall Street, Suite 500 Midland TX, 79701 432.813.1992















# **APPENDIX** A



### Table 1 **Conoco Phillips** Lusk Deep Unit 028H (10.24.23) Lea County, New Mexico

|            | 5.4                     |            |       | TPH   | (mg/kg) |           | Benzene  | Toluene  | Ethlybenzene | Xylene   | Total BTEX | Chloride  |
|------------|-------------------------|------------|-------|-------|---------|-----------|----------|----------|--------------|----------|------------|-----------|
| Sample ID  | Date                    | Depth (ft) | GRO   | DRO   | MRO     | Total     | (mg/kg)  | (mg/kg)  | (mg/kg)      | (mg/kg)  | (mg/kg)    | (mg/kg)   |
|            | 11/20/2023              | 0-1        | <49.9 | <49.9 | <49.9   | <49.9     | <0.00199 | <0.00199 | <0.00199     | <0.00398 | <0.00398   | 1,730     |
|            | "                       | 1.5        | <50.1 | <50.1 | <50.1   | <50.1     | <0.00198 | <0.00198 | <0.00198     | <0.00396 | <0.00396   | 4,750     |
| S-1        | "                       | 2.0        | <50.3 | <50.3 | <50.3   | <50.3     | <0.00202 | <0.00202 | <0.00202     | <0.00403 | <0.00403   | 6,220     |
|            | "                       | 3.0        | <50.5 | <50.5 | <50.5   | <50.5     | <0.00200 | <0.00200 | <0.00200     | <0.00401 | <0.00401   | 6,810     |
|            | "                       | 4.0        | <49.9 | <49.9 | <49.9   | <49.9     | <0.00200 | <0.00200 | <0.00200     | <0.00399 | <0.00399   | 10,100    |
| H-1        | 11/20/2023              | 0-0.5      | <49.9 | <49.9 | <49.9   | <49.9     | <0.00198 | <0.00198 | <0.00198     | <0.00396 | <0.00396   | 374       |
| H-2        | 11/20/2023              | 0-0.5      | <49.7 | <49.7 | <49.7   | <49.7     | <0.00198 | <0.00198 | <0.00198     | <0.00396 | <0.00396   | 134       |
| H-3        | 11/20/2023              | 0-0.5      | <49.6 | <49.6 | <49.6   | <49.6     | <0.00201 | <0.00201 | <0.00201     | <0.00402 | <0.00402   | 204       |
| H-4        | 11/20/2023              | 0-0.5      | <50.0 | <50.0 | <50.0   | <50.0     | <0.00200 | <0.00200 | <0.00200     | <0.00401 | <0.00401   | 44.4      |
| Regulatory | y Criteria <sup>A</sup> |            |       |       |         | 100 mg/kg | 10 mg/kg |          |              |          | 50 mg/kg   | 600 mg/kg |

(-) 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 Sample

Removed

.

### Table 2 **Conoco Phillips** Lusk Deep Unit 028H (10.24.23) Lea County, New Mexico

|           |                          |            |       | TPH   | l (mg/kg) |           | Benzene  | Toluene  | Ethlybenzene | Xylene   | Total BTEX | Chloride  |
|-----------|--------------------------|------------|-------|-------|-----------|-----------|----------|----------|--------------|----------|------------|-----------|
| Sample ID | Date                     | Depth (ft) | GRO   | DRO   | MRO       | Total     | (mg/kg)  | (mg/kg)  | (mg/kg)      | (mg/kg)  | (mg/kg)    | (mg/kg)   |
| CS-1      | 12/1/2023                | 5'         | <50.5 | <50.5 | <50.5     | <50.5     | <0.00200 | <0.00200 | <0.00200     | <0.00400 | <0.00400   | 15.4      |
| CS-2      | 12/1/2023                | 5'         | <49.7 | <49.7 | <49.7     | <49.7     | <0.00199 | <0.00199 | <0.00199     | <0.00398 | <0.00398   | 219       |
| CS-3      | 12/1/2023                | 5'         | <49.7 | <49.7 | <49.7     | <49.7     | <0.00199 | <0.00199 | <0.00199     | <0.00398 | <0.00398   | 18.5      |
| CS-4      | 12/1/2023                | 5'         | <49.9 | <49.9 | <49.9     | <49.9     | <0.00200 | <0.00200 | <0.00200     | <0.00399 | <0.00399   | 89.8      |
| CS-5      | 12/1/2023                | 5'         | <50.0 | <50.0 | <50.0     | <50.0     | <0.00200 | <0.00200 | <0.00200     | <0.00401 | <0.00401   | 147       |
| SW-1      | 12/1/2023                | 5'         | <50.1 | <50.1 | <50.1     | <50.1     | <0.00199 | <0.00199 | <0.00199     | <0.00398 | <0.00398   | 27.2      |
| SW-2      | 12/1/2023                | 5'         | <50.1 | <50.1 | <50.1     | <50.1     | <0.00198 | <0.00198 | <0.00198     | <0.00396 | <0.00396   | <4.95     |
| SW-3      | 12/1/2023                | 5'         | <50.4 | <50.4 | <50.4     | <50.4     | <0.00199 | <0.00199 | <0.00199     | <0.00398 | <0.00398   | <4.96     |
| SW-4      | 12/1/2023                | 5'         | <50.2 | <50.2 | <50.2     | <50.2     | <0.00200 | <0.00200 | <0.00200     | <0.00399 | <0.00399   | 35.3      |
| SW-5      | 12/1/2023                | 5'         | <49.9 | <49.9 | <49.9     | <49.9     | <0.00201 | <0.00201 | <0.00201     | <0.00402 | <0.00402   | 51.8      |
| SW-6      | 12/1/2023                | 5'         | <49.7 | <49.7 | <49.7     | <49.7     | <0.00198 | <0.00198 | <0.00198     | <0.00396 | <0.00396   | 25.2      |
|           | ry Criteria <sup>A</sup> |            |       |       |           | 100 mg/kg | 10 mg/kg |          |              |          | 50 mg/kg   | 600 mg/kg |

(-) Not Analyzed

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

mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Floor Sample

(SW) Confirmation Sidewall Sample

# **APPENDIX B**



### PHOTOGRAPHIC LOG

### **Concho Operating, LLC**



### PHOTOGRAPHIC LOG

### **Concho Operating, LLC**

W

| Ph | otog | ırar | h I | No  | Δ |
|----|------|------|-----|-----|---|
| ГШ | υιυυ | ոսե  |     | NO. | 4 |

Facility:Lusk Deep Unit 028H (10.24.2023)

County: Lea County, New Mexico

#### **Description:**

View Southeast, area of CS-3 through CS-5.



NW

### Photograph No. 5

- Facility: Lusk Deep Unit 028H (10.24.2023)
- County: Lea County, New Mexico

#### **Description:**

View North, area of backfilled area.



N

NE

### Photograph No. 6

- Facility:Lusk Deep Unit 028H (10.24.2023)
- County: Lea County, New Mexico

### **Description:**

View of the seed mixture that was used to reseed the excavation area.



# **APPENDIX C**



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

)

Page 18 of 133

| 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**

Longitude

| Latitude |  |  |
|----------|--|--|
|          |  |  |

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

(NAD 83 in decimal degrees to 5 decimal places)

| 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)

| Volume Released (bbls)   | Volume Recovered (bbls)  |
|--|--|
| Volume Released (bbls)   | Volume Recovered (bbls)  |
| Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No   |
| Volume Released (bbls)   | Volume Recovered (bbls)  |
| Volume Released (Mcf)  | Volume Recovered (Mcf)   |
| Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)  |
|  |  |
|  | Volume Released (bbls)         Is the concentration of dissolved chloride in the produced water >10,000 mg/l?         Volume Released (bbls)         Volume Released (Mcf) |

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

| Was this a major<br>release as defined by<br>19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release?  |
|--|---|
| 🗌 Yes 🗌 No   |   |
|  |   |
|  |   |
| If YES, was immediate n  | otice 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

The impacted area has been secured to protect human health and the environment.

The source of the release has been stopped.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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:   | Date:      |
| email:       | Telephone: |
|              |            |
| OCD Only     |            |
| Received by: | Date:      |

Page 2

|                         |  |         |            | Spil                      | I Calculation - Subsurface | Spill - Cylinder | Remediation             | n Recommendation            |
|-------------------------|--|---------|------------|---------------------------|----------------------------|------------------|-------------------------|-----------------------------|
| Received by OCD: 1/2    | 5/2024 9:54:33 A                         | M       |            |                           |                            |                  | Total Estimated         | Page 20 of 133              |
| Convert Irregular shape | Diameter                                 | Average | On/Off     | Soil Spilled-Fluid        | Estimated volume of each   | Total Estimated  | Contaminated            | Current Rule of Thumb       |
| into a series of        | 20.000 X X X X X X X X X X X X X X X X X | Depth   | Pad        | Saturation                | area                       | Volume of Spill  | Soil,                   | RMR Handover                |
| rectangles              | (ft.)                                    | (in.)   | (dropdown) | (%.)                      | (bbl.)                     | (bbl.)           | uncompacted,            | Volume, (yd <sup>3</sup> .) |
|                         |  |         |            |                           |                            | UNIVE 12 12 19 2 | 25% (yd <sup>3</sup> .) |                             |
| Rectangle A             | 12.0                                     | 24.0    | Off-Pad ∽  | 13.69%                    | 40.26                      | 5.51             | 10.47                   |                             |
| Rectangle B             | 8.0                                      | 12.0    | Off-Pad ∽  | 13.69%                    | 8.95                       | 1.22             | 2.33                    |                             |
| Rectangle C             |  |         | ~          |                           | 0.00                       |                  | 0.00                    |                             |
| Rectangle D             |  |         | ~          |                           | 0.00                       |                  | 0.00                    | ]                           |
| Rectangle E             |  |         | ~          |                           | 0.00                       |                  | 0.00                    | 750                         |
| Rectangle F             |  | d.      | ~          |                           | 0.00                       |                  | 0.00                    | 750                         |
| Rectangle G             |  |         | ~          |                           | 0.00                       |                  | 0.00                    |                             |
| Rectangle H             |  | 0       | ~          |                           | 0.00                       |                  | 0.00                    |                             |
| Rectangle I             |  |         | ~          |                           | 0.00                       |                  | 0.00                    |                             |
| , Rectangle J           | 4/1/2024 7-45-25                         | 434     | ~          | 1<br>19450 (11) - 20 (24) | 0.00                       |                  | 0.00                    |                             |
| Released to Imaging: 4  | H/1/2024 /:43:23                         | AM      | A9 00      | Total S                   | Subsurface Volume Release: | 6.7368           | 12.79                   | BU .                        |

**Received by OCD: 1/25/2024 9:54:33 AM** Form C-141 State of New Mexico

Oil Conservation Division

|                | Page 21 of 133 |
|----------------|----------------|
| 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?   | 🗌 Yes 🗌 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | 🗌 Yes 🗌 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)?  | 🗌 Yes 🗌 No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | 🗌 Yes 🗌 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? | 🗌 Yes 🗌 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | 🗌 Yes 🗌 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | 🗌 Yes 🗌 No |
| Are the lateral extents of the release within 300 feet of a wetland?  | 🗌 Yes 🗌 No |
| Are the lateral extents of the release overlying a subsurface mine?   | 🗌 Yes 🗌 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | 🗌 Yes 🗌 No |
| Are the lateral extents of the release within a 100-year floodplain?  | 🗌 Yes 🗌 No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | 🗌 Yes 🗌 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.

| Received by OCD:   | • 1/25/2024 9:54:33 AM<br>State of New Mexico | Page 22 of 13   |   |  |  |  |
|--|---|---|---|--|--|--|
|  |   | Incident ID   |   |  |  |  |
| Page 4   | Oil Conservation Division                     | District RP   |   |  |  |  |
|  |   | Facility ID   |   |  |  |  |
|  |   | Application ID  |   |  |  |  |
| regulations all ope<br>public health or th<br>failed to adequatel<br>addition, OCD acc<br>and/or regulations.<br>Printed Name:<br>Signature: |   | prrective actions for rele<br>operator of liability sho<br>ce water, human health<br>iance with any other feo | eases which may endanger<br>ould their operations have<br>or the environment. In<br>deral, state, or local laws |  |  |  |
| email:   | Telephone:                                    | Telephone:  |   |  |  |  |
| OCD Only<br>Received by:   | Date:   |   |   |  |  |  |

Page 6

Oil Conservation Division

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

## Closure

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

| <b><u>Closure Report Attachment Checklist</u>:</b> Each of the following   | items must be included in the closure report.  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| A scaled site and sampling diagram as described in 19.15.29.11 NMAC  |  |  |  |  |  |  |  |  |
| Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)  |  |  |  |  |  |  |  |  |
| Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)  |  |  |  |  |  |  |  |  |
| Description of remediation activities  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| and regulations all operators are required to report and/or file certaid<br>may endanger public health or the environment. The acceptance of<br>should their operations have failed to adequately investigate and re-<br>human health or the environment. In addition, OCD acceptance of | ations. The responsible party acknowledges they must substantially<br>onditions that existed prior to the release or their final land use in<br>OCD when reclamation and re-vegetation are complete. |  |  |  |  |  |  |  |
| Signature: Jacqui Harris   |  |  |  |  |  |  |  |  |
| email:   | Telephone:   |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| OCD Only   |  |  |  |  |  |  |  |  |
| Received by:   | Date:  |  |  |  |  |  |  |  |
|  | r of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.                       |  |  |  |  |  |  |  |
| Closure Approved by:   | Date:  |  |  |  |  |  |  |  |
| Printed Name:  | Title:   |  |  |  |  |  |  |  |
| _  |  |  |  |  |  |  |  |  |

### **Conner Moehring**

| From:    | Wells, Shelly, EMNRD <shelly.wells@emnrd.nm.gov></shelly.wells@emnrd.nm.gov>                    |
|----------|---|
| Sent:    | Tuesday, November 28, 2023 4:28 PM  |
| То:      | Conner Moehring   |
| Cc:      | Mike Carmona; Devin Dominguez; Clint Merritt; Velez, Nelson, EMNRD; Bratcher,<br>Michael, EMNRD |
| Subject: | RE: [EXTERNAL] COG - Lusk Deep Unit 028H (10.24.23) - Sampling Notification                     |

Good afternoon Conner,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520<u>|Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Tuesday, November 28, 2023 2:49 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>;
Clint Merritt <MerrittC@carmonaresources.com>
Subject: [EXTERNAL] COG - Lusk Deep Unit 028H (10.24.23) - Sampling Notification

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

All,

This email serves as a notification for confirmation sampling on the COG – Lusk Deep Unit 028H (10.24.23). Sampling is scheduled to begin on Thursday, November 30, 2023, around 3:00 p.m. Mountain Time and continue through the week. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident Number: nAPP2333132247

Conner R. Moehring 310 West Wall Street, Suite 500 Midland TX, 79701 M: 432-813-6823 cmoehring@carmonaresources.com

# **APPENDIX D**



Lusk Deep Unit 028H (10.24.2023)

2

102' - Drilled 1982

345' - Drilled 1982 🔵

Released to Imaging: 4/1/2024 7:45:25 AM





2 ......



Received by OCD: 1/25/2024 9:54:33 AM

COG Operating

Lusk Deep Unit 028H (10.24.2023) •

CReleased to Imaging: 4/1/2024 7:45:25 AM



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

| (A CLW##### in the<br>POD suffix indicates the<br>POD has been replaced<br>& no longer serves a<br>water right file.) | (R=POD has<br>been replaced<br>O=orphaned,<br>C=the file is<br>closed) |       |                    |         |   |     |     | 2=NE 3 | s=SW 4=SE<br>gest) (NA | )<br>AD83 UTM in me | eters)      | (1     | n feet) |                 |
|---|--|-------|--------------------|---------|---|-----|-----|--------|------------------------|---------------------|-------------|--------|---------|-----------------|
| POD Number  | POD<br>Sub-<br>Code basin (  | Count |                    | Q<br>16 |   | Soc | Twe | Png    | Х                      | Y                   | Distance    | -      | -       | Water<br>Column |
| CP 00563 POD1   | COUE DASIN C<br>CP   | LE    | . <b>y 04</b><br>1 |         |   |     | 19S | -      | 612118                 | 3613376* 🌍          | 691         | 300    | Water   | Column          |
| CP 00640 POD1   | СР   | LE    |                    | 2       | 2 | 19  | 19S | 32E    | 612621                 | 3613280* 🌍          | 1132        | 260    | 102     | 158             |
| CP 00639 POD1   | CP   | LE    |                    | 3       | 1 | 20  | 19S | 32E    | 613029                 | 3612880* 😜          | 1697        | 350    | 345     | Ę               |
| CP 01656 POD2   | CP   | LE    | 3                  | 4       | 3 | 17  | 19S | 32E    | 613364                 | 3613648 🌍           | 1703        | 70     |         |                 |
| CP 01656 POD1   | CP   | LE    | 3                  | 4       | 3 | 17  | 19S | 32E    | 613368                 | 3613646 🌍           | 1708        | 70     |         |                 |
| CP 01656 POD3   | CP   | LE    | 3                  | 4       | 3 | 17  | 19S | 32E    | 613374                 | 3613633 🌍           | 1716        | 30     |         |                 |
| CP 00642 POD1   | CP   | ED    |                    | 2       | 2 | 25  | 19S | 31E    | 611025                 | 3611657* 🌍          | 2347        | 250    |         |                 |
| L 15415   | L  | LE    | 3                  | 3       | 3 | 05  | 19S | 32E    | 612912                 | 3616830 🌍           | 3168        | 55     |         |                 |
| CP 01939 POD1   | CP   | ED    | 2                  | 4       | 2 | 26  | 19S | 31E    | 609488                 | 3611347 🌍           | 3372        |        |         |                 |
|   |  |       |                    |         |   |     |     |        |                        | Avera               | ge Depth to | Water: | 223     | feet            |
|   |  |       |                    |         |   |     |     |        |                        |                     | Minimum     | Depth: | 102     | feet            |
|   |  |       |                    |         |   |     |     |        |                        |                     | Maximum     | Depth: | 345     | feet            |

**Record Count:** 9

UTMNAD83 Radius Search (in meters):

Easting (X): 611680

Northing (Y): 3613911

Radius: 4000

\*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.

11/14/23 2:11 PM

Page 28 of 133



# New Mexico Office of the State Engineer Point of Diversion Summary

|                              |                | (quarters ar<br>(quarters a |      |       |     |         | (NAD83   | (NAD83 UTM in meters) |          |  |
|------------------------------|----------------|-----------------------------|------|-------|-----|---------|----------|-----------------------|----------|--|
| Well Tag PC                  | DD Number      | Q64 Q16                     | 5 Q4 | Sec   | Tws | Rng     | Х        | X Y                   |          |  |
| CF                           | 00640 POD1     | 2                           | 2    | 19    | 19S | 32E     | 61262    | 3613280* 🧲            |          |  |
| <sup>x</sup> Driller License | : 882          | Driller Co                  | mpai | ıy:   | LA  | RRY'S   | DRILLING | G & PUMP CO.          |          |  |
| Driller Name:                | FELKINS, LARRY |                             |      |       |     |         |          |                       |          |  |
| Drill Start Date             | e: 02/08/1982  | Drill Finis                 | h Da | te:   | 0   | 2/09/19 | 82 I     | lug Date:             |          |  |
| Log File Date:               | 03/04/1982     | PCW Rev                     | Date | :     |     |         | S        | ource:                | Shallow  |  |
| Pump Type:                   |                | Pipe Disch                  | arge | Size: |     |         | I        | Estimated Yield       | :        |  |
| Casing Size:                 |                | Depth Wel                   | l:   |       | 2   | 60 feet | I        | Depth Water:          | 102 feet |  |

\*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.

11/14/23 2:12 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

|                           | 1                     |            | ELL NUMBER)             |  |                    |                 | OSE FILE NU                            | MBER(S)                               |                                      |                  |  |  |  |  |  |
|---------------------------|-----------------------|------------|-------------------------|--|--------------------|-----------------|--|---------------------------------------|--------------------------------------|------------------|--|--|--|--|--|
| ION                       | 1                     |            | EP UNIT A #19 SB-       | 2  |                    |                 | CP-1656                                |                                       |                                      |                  |  |  |  |  |  |
| CAT                       | TETRA TE              |            | S)                      |  |                    |                 | PHONE (OPTI                            | ONAL)                                 |                                      |                  |  |  |  |  |  |
| Š                         |                       |            | NG ADDRESS              |  |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
| GENERAL AND WELL LOCATION |                       |            | NG ST, STE 401          |  |                    | Midland         |  | state<br>Tx 797                       | 705                                  |                  |  |  |  |  |  |
| QN                        | WELL                  |            | DEGREES                 |  | SECOND             | s               | [                                      |                                       |                                      |                  |  |  |  |  |  |
| AL/                       | LOCATIO               |            | ATITUDE 32              | 39   | 16.7               |                 |  |                                       |                                      |                  |  |  |  |  |  |
| VER                       | (FROM G               | PS)        | <sub>ongitude</sub> 103 | 47   | 28.1               | W               | * DATUM REQUIRED: WGS 84               |                                       |                                      |                  |  |  |  |  |  |
| GE                        | DESCRIPTIO            | N RELATING | WELL LOCATION TO STREE  | TADDRESS AND COMMON LAN                                  | DMARKS - PLS       | S (SECTION, T   | OWNSHJIP, RANG                         | E) WHERE AVAILABLE                    |                                      |                  |  |  |  |  |  |
| <b>~</b>                  | NE 1/4 O              | F SW 1/-   | 4 OF SE 1/4 OF SW       | 1/4 OF SECTION 17, 1                                     | FOWNSHIF           | P 19S, RA       | NGE 32E                                |                                       |                                      |                  |  |  |  |  |  |
|                           | LICENSE NU            | JMBER      | NAME OF LICENSED        |  |                    |                 |  | NAME OF WELL DRI                      |                                      |                  |  |  |  |  |  |
| }                         | WD1711                |            | EDWARD BRYA             |  |                    |                 |  | STRAUB CORPO                          |                                      | :                |  |  |  |  |  |
|                           | DRILLING S<br>3-28-17 | TARTED     |                         | DEPTH OF COMPLETED WE                                    | LL (FT)            | BORE HOI<br>70' | E DEPTH (FT)                           | DEPTH WATER FIRS                      | ST ENCOUNTERED (F                    | r)               |  |  |  |  |  |
| 7                         | COMPLETE              | D WELL IS: | C ARTESIAN              | DRY HOLE     SHA   | ALLOW (UNC         | ONFINED)        |  | STATIC WATER LEV                      | EL IN COMPLETED W                    | VELL (FT)        |  |  |  |  |  |
| TIO                       | DRILLING F            |            | € <sub>AIR</sub>        | C MUD ADI  | DITIVES - SPE      | CIFY:           | <u> </u>                               | <u>}</u>                              |                                      |                  |  |  |  |  |  |
| RMA                       | DRILLING N            | IETHOD:    | F ROTARY                | C HAMMER C CAR   | BLE TOOL           | C OTHE          | R - SPECIFY:                           |                                       | <u> </u>                             |                  |  |  |  |  |  |
| NFO                       | DEPTH                 | (feet bgl) | BORE HOLE               | CASING MATERIAL  | RIAL AND/OR CASING |                 |  | CASING                                | - SLOT                               |                  |  |  |  |  |  |
| CASING INFORMATION        | FROM                  | ТО         | DIAM<br>(inches)        | GRADE<br>(include each casing st<br>note sections of scr |                    | CONN            | VPE (inches)                           |                                       | CASING WALL<br>THICKNESS<br>(inches) | SIZE<br>(inches) |  |  |  |  |  |
| & CA                      | 0                     | 70'        | 6"                      | N/A  |                    | N/A_            |  | N/A                                   | N/A :                                | N/A              |  |  |  |  |  |
| DRILLING &                | ļ                     |            |                         |  |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
| ILL                       |                       |            |                         |  |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
| DR.                       |                       |            |                         | <br>   |                    | <br>            |  |                                       | <br>                                 |                  |  |  |  |  |  |
| 2.                        |                       |            |                         | · · · · · · · · · · · · · · · · · · ·                    |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
|                           |                       |            |                         |  |                    | <u> </u>        |  |                                       |                                      |                  |  |  |  |  |  |
|                           |                       |            |                         |  |                    |                 |  | ļ                                     |                                      |                  |  |  |  |  |  |
| i<br>İ                    |                       |            |                         | · · · · · · · · · · · · · · · · · · ·                    |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
|                           |                       |            |                         |  |                    |                 | ······································ |                                       |                                      |                  |  |  |  |  |  |
|                           | DEPTH                 | (feet bgl) | BORE HOLE               | LIST ANNULA  | R SEAL MA          | TERIAL A        | ND                                     | AMOUNT                                | METH                                 | OD OF            |  |  |  |  |  |
| IAL                       | FROM                  | TO         | DIAM. (inches)          | GRAVEL PACK S  | IZE-RANGI          | E BY INTE       | RVAL                                   | (cubic feet)                          | PLACE                                | MENT             |  |  |  |  |  |
| ſER                       | 0                     | 2          | 6"                      | .5 CEMENT  |                    |                 |  | · · · · · · · · · · · · · · · · · · · | TOPLOAD                              |                  |  |  |  |  |  |
| MA                        | 2                     | 70'        | 6"                      | 21 BAGS OF 3/8 HO  | LEPLUG             |                 |  |                                       | TOPLOAD                              |                  |  |  |  |  |  |
| AR.                       |                       |            |                         |  |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
| ANNULAR MATERIAL          |                       | • <u> </u> |                         |  |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
|                           |                       |            |                         |  |                    |                 |  | ·                                     |                                      |                  |  |  |  |  |  |
| 3.                        |                       |            |                         |  |                    | <del></del>     |  |                                       |                                      |                  |  |  |  |  |  |
|                           | OSE INTER             |            |                         | <b></b>  |                    |                 |  |                                       |                                      |                  |  |  |  |  |  |
|                           | USE INTER             | 7 D        | -1656                   | POL  | NUMBER             | <u> </u>        |  | WELL RECORD &                         | LOG (Version 06/                     | 08/2012)         |  |  |  |  |  |
|                           | ATION                 |            | Nevy                    | 195.32E  |                    | 45              |  |                                       | PAGI                                 | E 1 OF 2         |  |  |  |  |  |
|                           |                       |            |                         | 14J. Jack  | ·/ ·· /            | // )            |  | 1 Sec                                 | 1                                    |                  |  |  |  |  |  |

•

|                              | DEPTH (feet bgl)  |          | THICKNESS                                    | COLOR AN                              | ND TYPE OF MATER                              | TERED -                | WATER YIELD F                    |   |                     |  |  |
|------------------------------|---|----------|--|---------------------------------------|---|------------------------|----------------------------------|---|---------------------|--|--|
| į.                           | FROM TO (feet)  |          |  |                                       | ER-BEARING CAVIT<br>pplemental sheets to t    | BEARING?<br>(YES / NO) | WATER-<br>BEARING<br>ZONES (gpm) |   |                     |  |  |
| F                            | 0   | 1'       | 1'   | TAN FINE SAND                         |   | CY (N                  | N/A                              |   |                     |  |  |
| f                            | 1'  | 8'       | 7'   | RED FINE SAND - SANDSTONE             |   |                        |                                  | CY ( N  | N/A                 |  |  |
| f                            | 8'  | 22'      | 14'  | TAN FINE SAND - SANDSTONE CEMENT      |   |                        |                                  | CY ( N  | N/A                 |  |  |
| ŀ                            | 22'   | 23'      | 1'   | RED VERY FINE SAND - SANDSTONE CEMENT |   |                        |                                  | CYGN  | N/A                 |  |  |
| ľ                            | 23'   | 41'      | 18'  | RED VERY FINE SAND - SANDSTONE CEMENT |   |                        |                                  | CY ON   | N/A                 |  |  |
|                              | 41'   | 48'      | 7'   | RED SANDY CLAY                        | /   | CY (N                  | N/A                              |   |                     |  |  |
| VEL                          | 48'   | 63'      | 15'  | RED VERY FINE SA                      | AND - SANDSTON                                | CY ( N                 | N/A                              |   |                     |  |  |
| 4. HYDROGEOLOGIC LOG OF WELL | 63'   | 70'      | 7'   | RED SILTY CLAY                        |   | CY ON                  | N/A                              |   |                     |  |  |
|                              | TD  | 70'      |  |                                       | <u> </u>                                      | CYC <sup>N</sup>       |                                  |   |                     |  |  |
| 2                            | ···   |          |  |                                       | - <u></u>                                     |                        |                                  | CYCN  |                     |  |  |
| DO 1                         |   |          |  |                                       |   |                        |                                  | CYCN  |                     |  |  |
| EO                           |   |          |  | · · · · ·                             | <u>,                                     </u> | <u> </u>               |                                  | CYCN  |                     |  |  |
| 000                          |   | +        |  |                                       |   |                        | ······                           | CY CN   |                     |  |  |
| Ĩ                            |   |          | <u>}</u>                                     | <u> </u>                              |   |                        |                                  |   | 11                  |  |  |
| 4                            |   |          | +  |                                       | <u></u>                                       |                        |                                  | CYCN  |                     |  |  |
| F                            |   | <u> </u> |  |                                       |   |                        |                                  | CYCN  |                     |  |  |
| Ì                            |   |          |  | 1                                     |   |                        |                                  | CYCN  |                     |  |  |
| F                            |   | <u>+</u> |  | · · · · · · · · · · · · · · · · · · · | . <u></u>                                     |                        |                                  | CYC <sup>N</sup>  |                     |  |  |
| F                            |   |          |  |                                       | <del>.</del>                                  |                        |                                  |   |                     |  |  |
| ł                            |   |          |  |                                       |   |                        |                                  | CYCN  |                     |  |  |
| F                            |   | 1        |  |                                       |   |                        |                                  |   |                     |  |  |
| F                            | METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: C PUMP TOT   |          |  |                                       |   |                        |                                  |   | TAL ESTIMATED       |  |  |
| }                            | CAIRLIFT C BAILER C OTHER - SPECIFY:  |          |  |                                       |   |                        |                                  |   |                     |  |  |
|                              | WELL TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,<br>START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |          |  |                                       |   |                        |                                  |   |                     |  |  |
|                              | MISCELLANEOUS INFORMATION:  |          |  |                                       |   |                        |                                  |   |                     |  |  |
| ERV                          | SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.   |          |  |                                       |   |                        |                                  |   |                     |  |  |
| TEST; RIG SUPERVISION        | LEA COUNTY, NM  |          |  |                                       |   |                        |                                  |   |                     |  |  |
| R                            |   |          |  |                                       |   |                        |                                  |   |                     |  |  |
| EST                          | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:   |          |  |                                       |   |                        |                                  |   |                     |  |  |
| ۍ ۲                          |   |          |  |                                       |   |                        |                                  |   |                     |  |  |
|                              | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND  |          |  |                                       |   |                        |                                  |   |                     |  |  |
| JRE                          | CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER<br>AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:       |          |  |                                       |   |                        |                                  |   |                     |  |  |
| 6. SIGNATURE                 |   |          |  |                                       |   |                        |                                  |   |                     |  |  |
| IGN                          | 2 Bayon Edward Brind 19 19-13-129.17  |          |  |                                       |   |                        |                                  |   |                     |  |  |
| 6. S                         | SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE   |          |  |                                       |   |                        |                                  |   |                     |  |  |
|                              | OSE INTER   |          |  |                                       |   |                        | WR-20 WEL                        | LOG (V  | /ersion 06/08/2012) |  |  |
|                              | E NUMBER  | UNL USE  | <u>.                                    </u> |                                       | POD NUMBER                                    |                        | TRN NUMBE                        | the second se |                     |  |  |
|                              | CATION  | ,·       |  |                                       | I   | And All All and        |                                  |   | PAGE 2 OF 2         |  |  |



# New Mexico Office of the State Engineer Point of Diversion Summary

|                               |      |                | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |      |     |            |       |         | (NAD83     | (NAD83 UTM in meters) |               |          |  |
|-------------------------------|------|----------------|--|------|-----|------------|-------|---------|------------|-----------------------|---------------|----------|--|
| Well Tag                      | POD  | Q64            | Q16 Q4   |      | Sec | Tws        | Rng   | 2       | K          | Y                     |               |          |  |
|                               | CP ( | 00639 POD1     |  | 3    | 1   | 20         | 19S   | 32E     | 61302      | 9                     | 3612880* 🌍    |          |  |
| <sup>x</sup> Driller License: |      | 882            | Driller Company:   |      |     | LA         | RRY'S | DRILLIN | G 8        | & PUMP CO.            |               |          |  |
| Driller Nan                   | ne:  | FELKINS, LARRY |  |      |     |            |       |         |            |                       |               |          |  |
| Drill Start Date:             |      | 02/09/1982     | Drill Finish Date:   |      |     | 02/10/1982 |       | 982 1   | Plug Date: |                       |               |          |  |
| Log File Date:                |      | 03/23/1982     | PCW Rcv Date:  |      |     |            |       |         |            |                       | irce:         | Shallow  |  |
| Pump Type:                    |      |                | Pipe Discharge Size:   |      |     |            |       |         |            |                       | imated Yield: |          |  |
| Casing Size                   | e:   |                | Depth  | Well | :   |            | 3     | 50 feet | 1          | Dep                   | oth Water:    | 345 feet |  |

\*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.

11/14/23 2:13 PM

POINT OF DIVERSION SUMMARY

## New Mexico NFHL Data



November 14, 2023



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

nmflood.org is made possible through a collaboration with NMDHSEM,

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

# **APPENDIX E**





**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Conner Moehring Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 11/28/2023 9:05:56 AM

## JOB DESCRIPTION

Lusk Deep Unit 028H (10.24.23) Lea County, New Mexico

## **JOB NUMBER**

880-36054-1

nona Re 310 W nd, Texa 1/28/2023 S S**CRIF** 028H (10 nty, New

Eurofins Midland 1211 W. Florida Ave Midland TX 79701



Page 35 of 133



## **Eurofins Midland**

### Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

### Authorization

AMER

Generated 11/28/2023 9:05:56 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies
Page 37 of 133

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     | 3  |
| Definitions/Glossary  | 4  |
|                       | 5  |
|                       | 6  |
|                       | 10 |
| QC Sample Results     | 11 |
|                       | 15 |
| Lab Chronicle         | 17 |
| Certification Summary | 19 |
| -                     | 20 |
| -                     | 21 |
|                       | 22 |
|                       | 23 |
| •                     |    |

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1 SDG: Lea County, New Mexico

### Qualifiers

| Qualifiers   |  | 3   |
|--------------|--|-----|
| GC VOA       |  |     |
| Qualifier    | Qualifier Description  |     |
| S1+          | Surrogate recovery exceeds control limits, high biased.                                    |     |
| U            | Indicates the analyte was analyzed for but not detected.                                   | 5   |
| GC Semi VO   | Α  |     |
| 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, high biased.                                    |     |
| U            | Indicates the analyte was analyzed for but not detected.                                   | 8   |
| HPLC/IC      |  |     |
| Qualifier    | Qualifier Description  | 9   |
| 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  | 4.9 |
| CNF          | Contains No Free Liquid  | 13  |
| DER          | Duplicate Error Ratio (normalized absolute difference)                                     |     |
|              |  |     |

| ¤              | 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)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36054-1 SDG: Lea County, New Mexico

### Job ID: 880-36054-1

### Laboratory: Eurofins Midland

### Narrative

Job Narrative 880-36054-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 11/21/2023 10:01 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 -6.1°C

### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1.0') (880-36054-1), S-1 (1.5') (880-36054-2), S-1 (2.0') (880-36054-3), S-1 (3.0') (880-36054-4) and S-1 (4.0') (880-36054-5).

### GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67438 and analytical batch 880-67556 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67580 and analytical batch 880-67556 was outside the upper control 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 surrogate recovery for the blank associated with preparation batch 880-67569 and analytical batch 880-67601 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-1.0') (880-36054-1), S-1 (1.5') (880-36054-2), S-1 (2.0') (880-36054-3), S-1 (3.0') (880-36054-4), S-1 (4.0') (880-36054-5), (820-10978-A-16-D), (820-10978-A-16-E MS) and (820-10978-A-16-F MSD). 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 880-67569 and analytical batch 880-67601 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.

### HPLC/IC

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: Lusk Deep Unit 028H (10.24.23)

### Client Sample ID: S-1 (0-1.0') Date Collected: 11/20/23 00:00

Date Received: 11/21/23 10:01

| Analyte  | Result                         | Qualifier                               | RL                       | MDL | Unit          | D        | Prepared       | Analyzed                                    | Dil Fac                |
|--|--------------------------------|---|--------------------------|-----|---------------|----------|----------------|---|------------------------|
| Benzene  | <0.00199                       | U                                       | 0.00199                  |     | mg/Kg         |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| Toluene  | <0.00199                       | U                                       | 0.00199                  |     | mg/Kg         |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| Ethylbenzene   | <0.00199                       | U                                       | 0.00199                  |     | mg/Kg         |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| m-Xylene & p-Xylene  | <0.00398                       | U                                       | 0.00398                  |     | mg/Kg         |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| o-Xylene   | <0.00199                       | U                                       | 0.00199                  |     | mg/Kg         |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| Xylenes, Total   | <0.00398                       | U                                       | 0.00398                  |     | mg/Kg         |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| Surrogate  | %Recovery                      | Qualifier                               | Limits                   |     |               |          | Prepared       | Analyzed                                    | Dil Fac                |
| 4-Bromofluorobenzene (Surr)  | 88                             |   | 70 - 130                 |     |               |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| 1,4-Difluorobenzene (Surr)   | 105                            |   | 70 - 130                 |     |               |          | 11/21/23 14:52 | 11/22/23 09:12                              | 1                      |
| Method: TAL SOP Total BTEX - To  | otal BTEX Calo                 | culation                                |                          |     |               |          |                |   |                        |
| Analyte  | Result                         | Qualifier                               | RL                       | MDL | Unit          | D        | Prepared       | Analyzed                                    | Dil Fac                |
| Total BTEX   | <0.00398                       | U                                       | 0.00398                  |     | mg/Kg         |          |                | 11/22/23 09:12                              | 1                      |
| Method: SW846 8015 NM - Diese  | I Panga Organ                  |   | 60)                      |     |               |          |                |   |                        |
| Analyte  | • •                            | Qualifier                               | RL                       | MDL | Unit          | D        | Prepared       | Analyzed                                    | Dil Fac                |
| Fotal TPH  | <49.9                          | U                                       | 49.9                     |     | mg/Kg         |          |                | 11/22/23 16:30                              | 1                      |
| nalyte   |                                | Qualifier                               |                          | MDL |               | D        | Prepared       | Analyzed                                    | Dil Fac                |
| Method: SW846 8015B NM - Dies  |                                |   | · · ·                    | MDI | Unit          | D        | Bronarad       | Applyzod                                    |                        |
| Gasoline Range Organics  | <49.9                          | U                                       | 49.9                     |     | mg/Kg         |          | 11/21/23 14:44 | 11/22/23 16:30                              | 1                      |
| GRO)-C6-C10  | -10.0                          |   | 40.0                     |     |               |          | 44/04/00 44.44 | 44/00/00 40:00                              |                        |
| Diesel Range Organics (Over<br>C10-C28)  | <49.9                          | 0                                       | 49.9                     |     | mg/Kg         |          | 11/21/23 14:44 | 11/22/23 16:30                              | 1                      |
| Oll Range Organics (Over C28-C36)  | <49.9                          | U                                       | 49.9                     |     | mg/Kg         |          | 11/21/23 14:44 | 11/22/23 16:30                              | 1                      |
| Surrogate  | %Recovery                      | Qualifier                               | Limits                   |     |               |          | Prepared       | Analyzed                                    | Dil Fac                |
|  | 146                            | S1+                                     | 70 - 130                 |     |               |          | 11/21/23 14:44 | 11/22/23 16:30                              | 1                      |
| 1-Uniorooctane   |                                |   |                          |     |               |          | 11/21/23 14:44 | 11/22/23 16:30                              |                        |
| 1-Chlorooctane<br>o-Terphenyl  | 123                            |   | 70 - 130                 |     |               |          | 11/21/25 14.44 | 11/22/23 10.30                              | 1                      |
| o-Terphenyl  |                                | ohy - Solubl                            | 70 - 130                 |     |               |          | 11/21/25 14.44 | 11/22/23 10.30                              | 1                      |
| o- <i>Terphenyl</i><br>Method: EPA 300.0 - Anions, Ion   | Chromatograp                   | o <mark>hy - Solubl</mark><br>Qualifier | 70 - 130                 | MDL | Unit          | D        | Prepared       | Analyzed                                    | Dil Fac                |
| o- <i>Terphenyl</i><br>Method: EPA 300.0 - Anions, Ion<br>Analyte  | Chromatograp                   | -                                       | 70 <sub>-</sub> 130<br>e | MDL | Unit<br>mg/Kg | <u>D</u> |                |   |                        |
| o- <i>Terphenyl</i><br>Method: EPA 300.0 - Anions, Ion<br>Analyte<br>Chloride  | Chromatograp<br>Result         | -                                       | 70 - 130<br>e<br>RL      | MDL |               | <u>D</u> | Prepared       | Analyzed                                    | Dil Fac                |
| o- <i>Terphenyl</i><br>Method: EPA 300.0 - Anions, Ion<br>Analyte<br>Chloride<br>lient Sample ID: S-1 (1.5')   | Chromatograp<br>Result         | -                                       | 70 - 130<br>e<br>RL      | MDL |               | <u>D</u> | Prepared       | Analyzed<br>11/27/23 14:35<br>ple ID: 880-3 | Dil Fac                |
| De-Terphenyl<br>Method: EPA 300.0 - Anions, Ion<br>Analyte<br>Chloride<br>lient Sample ID: S-1 (1.5')<br>ate Collected: 11/20/23 00:00   | Chromatograp<br>Result         | -                                       | 70 - 130<br>e<br>RL      | MDL |               | <u>D</u> | Prepared       | Analyzed<br>11/27/23 14:35<br>ple ID: 880-3 | Dil Fac<br>5<br>6054-2 |
| o-Terphenyl<br>Method: EPA 300.0 - Anions, Ion<br>Analyte<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chloride<br>Chlor | Chromatograp<br>Result<br>1730 | Qualifier                               | 70 - 130<br>e<br>        | MDL |               | <u> </u> | Prepared       | Analyzed<br>11/27/23 14:35<br>ple ID: 880-3 | Dil Fac<br>5<br>6054-2 |
| o-Terphenyl<br>Method: EPA 300.0 - Anions, Ion<br>Analyte<br>Chloride<br>Client Sample ID: S-1 (1.5')<br>ate Collected: 11/20/23 00:00   | Chromatograp<br>Result<br>1730 | Qualifier                               | 70 - 130<br>e<br>        | MDL | mg/Kg         | D        | Prepared       | Analyzed<br>11/27/23 14:35<br>ple ID: 880-3 | Dil Fac<br>5<br>6054-2 |

| Page | <i>40</i> | of | 13  |
|------|-----------|----|-----|
|      |           |    | 1.1 |

3

5

Job ID: 880-36054-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-36054-1

Matrix: Solid

**Eurofins Midland** 

11/22/23 09:32

11/22/23 09:32

11/22/23 09:32

11/22/23 09:32

11/22/23 09:32

Analyzed

11/22/23 09:32

11/22/23 09:32

ob ID: 880-36054-1

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

0.00198

0.00198

0.00396

0.00198

0.00396

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

11/21/23 14:52

11/21/23 14:52

11/21/23 14:52

11/21/23 14:52

11/21/23 14:52

Prepared

11/21/23 14:52

11/21/23 14:52

<0.00198 U

<0.00198 U

<0.00396 U

<0.00198 U

<0.00396 U

%Recovery Qualifier

97

109

1

1

1

1

1

1

1

Dil Fac

Matrix: Solid

5

### **Client Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36054-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-36054-2

### Client Sample ID: S-1 (1.5') Date Collected: 11/20/23 00:00

Date Received: 11/21/23 10:01

| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00396      | U           | 0.00396  |     | mg/Kg |   |                | 11/22/23 09:32 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organ   | ics (DRO) ( | GC)      |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <50.1         | U           | 50.1     |     | mg/Kg |   |                | 11/22/23 16:52 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.1         | U           | 50.1     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 16:52 | 1       |
| (GRO)-C6-C10                      |               |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.1         | U           | 50.1     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 16:52 | 1       |
| C10-C28)                          |               |             |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.1         | U           | 50.1     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 16:52 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 161           | S1+         | 70 - 130 |     |       |   | 11/21/23 14:44 | 11/22/23 16:52 | 1       |
| o-Terphenyl                       | 138           | S1+         | 70 - 130 |     |       |   | 11/21/23 14:44 | 11/22/23 16:52 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | • •           | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 4750          |             | 50.5     |     | mg/Kg |   |                | 11/27/23 14:41 | 10      |

### Client Sample ID: S-1 (2.0')

Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

### Lab Sample ID: 880-36054-3 Matrix: Solid

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|---|----------------|----------------|---------|
| Benzene                     | < 0.00202 | U         | 0.00202  | mg/Kg    |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg    |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg    |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg    |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg    |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg    |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |          |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 93        |           | 70 - 130 |          |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 |          |   | 11/21/23 14:52 | 11/22/23 09:53 | 1       |

| Analyte<br>Total BTEX   | Result           <0.00403 | Qualifier<br>U | RL<br>0.00403 | MDL | Unit<br>mg/Kg | <u> </u> | Prepared       | Analyzed 11/22/23 09:53 | Dil Fac |
|-------------------------|---------------------------|----------------|---------------|-----|---------------|----------|----------------|-------------------------|---------|
|                         | esel Range Organ          | ics (DRO) (O   | GC)           |     |               |          |                |                         |         |
| Analyte                 | Result                    | Qualifier      | RL            | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
| Total TPH               | <50.3                     | U              | 50.3          |     | mg/Kg         |          |                | 11/22/23 17:15          | 1       |
|                         | iesel Range Orga          | nics (DRO)     | (GC)          |     |               |          |                |                         |         |
| Analyte                 | Result                    | Qualifier      | RL            | MDL | Unit          | D        | Prepared       | Analyzed                | Dil Fac |
| Gasoline Range Organics | <50.3                     | U              | 50.3          |     | mg/Kg         |          | 11/21/23 14:44 | 11/22/23 17:15          | 1       |

**Eurofins Midland** 

11/22/23 17:15

11/21/23 14:44

Diesel Range Organics (Over

C10-C28)

50.3

mg/Kg

<50.3 U

Project/Site: Lusk Deep Unit 028H (10.24.23)

Matrix: Solid

Job ID: 880-36054-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-36054-3

### Client Sample ID: S-1 (2.0') Date Collected: 11/20/23 00:00

Date Received: 11/21/23 10:01

Client: Carmona Resources

| Method: SW846 8015B NM - Dies<br>Analyte  |                | Qualifier   | RL                   | MDL | Unit           | D | Prepared                   | Analyzed                   | Dil Fac  |
|---|----------------|-------------|----------------------|-----|----------------|---|----------------------------|----------------------------|----------|
| Oll Range Organics (Over C28-C36)         | <50.3          |             | 50.3                 |     | mg/Kg          |   | 11/21/23 14:44             | 11/22/23 17:15             | 1        |
| Currente a                                | % Decewary     | Qualifiar   | Limite               |     |                |   | Dramawad                   | Analyzed                   | Dil Fac  |
| Surrogate<br>1-Chlorooctane               | %Recovery      | S1+         |                      |     |                |   | Prepared<br>11/21/23 14:44 | Analyzed<br>11/22/23 17:15 |          |
| o-Terphenyl                               |                | S1+         | 70 - 130<br>70 - 130 |     |                |   | 11/21/23 14:44             | 11/22/23 17:15             | 1        |
|   | 151            | 37+         | 70 - 730             |     |                |   | 11/21/23 14.44             | 11/22/23 11.15             |          |
| Method: EPA 300.0 - Anions, Ion           | Chromatograp   | hy - Solubl | e                    |     |                |   |                            |                            |          |
| Analyte                                   |                | Qualifier   | RL                   | MDL | Unit           | D | Prepared                   | Analyzed                   | Dil Fac  |
| Chloride                                  | 6220           |             | 49.5                 |     | mg/Kg          |   |                            | 11/27/23 14:46             | 10       |
| Client Sample ID: S-1 (3.0')              |                |             |                      |     |                |   | Lab Sam                    | ple ID: 880-3              | 6054-4   |
| ate Collected: 11/20/23 00:00             |                |             |                      |     |                |   |                            |                            | x: Solid |
| Date Received: 11/21/23 10:01             |                |             |                      |     |                |   |                            |                            |          |
| Mothodi SW/846 9024B Volatila             | Organia Comp   | oundo (CC)  |                      |     |                |   |                            |                            |          |
| Method: SW846 8021B - Volatile<br>Analyte |                | Qualifier   | )<br>RL              | MDL | Unit           | D | Prepared                   | Analyzed                   | Dil Fac  |
| Benzene                                   | <0.00200       |             | 0.00200              |     | mg/Kg          |   | 11/21/23 14:52             | 11/22/23 10:13             | 1        |
| Toluene                                   | < 0.00200      |             | 0.00200              |     | mg/Kg          |   | 11/21/23 14:52             | 11/22/23 10:13             | 1        |
| Ethylbenzene                              | <0.00200       |             | 0.00200              |     | mg/Kg<br>mg/Kg |   | 11/21/23 14:52             | 11/22/23 10:13             | 1        |
| m-Xylene & p-Xylene                       | <0.00200       |             | 0.00200              |     | mg/Kg          |   | 11/21/23 14:52             | 11/22/23 10:13             |          |
| o-Xylene                                  | < 0.00200      |             | 0.00200              |     | mg/Kg          |   | 11/21/23 14:52             | 11/22/23 10:13             | 1        |
| Xylenes, Total                            | <0.00200       |             | 0.00200              |     |                |   | 11/21/23 14:52             | 11/22/23 10:13             | 1        |
| Aylenes, rotai                            | <0.00401       | 0           | 0.00401              |     | mg/Kg          |   | 11/21/23 14.32             | 11/22/23 10.13             |          |
| Surrogate                                 | %Recovery      | Qualifier   | Limits               |     |                |   | Prepared                   | Analyzed                   | Dil Fac  |
| 4-Bromofluorobenzene (Surr)               | 92             |             | 70 - 130             |     |                |   | 11/21/23 14:52             | 11/22/23 10:13             | 1        |
| 1,4-Difluorobenzene (Surr)                | 115            |             | 70 - 130             |     |                |   | 11/21/23 14:52             | 11/22/23 10:13             | 1        |
| Method: TAL SOP Total BTEX - T            | otal BTEX Calo | culation    |                      |     |                |   |                            |                            |          |
| Analyte                                   | Result         | Qualifier   | RL                   | MDL | Unit           | D | Prepared                   | Analyzed                   | Dil Fac  |
| Total BTEX                                | <0.00401       | U           | 0.00401              |     | mg/Kg          |   |                            | 11/22/23 10:13             | 1        |
| -<br>Method: SW846 8015 NM - Diese        | l Range Organ  | ics (DRO) ( | 60)                  |     |                |   |                            |                            |          |
| Analyte                                   |                | Qualifier   | RL                   | MDL | Unit           | D | Prepared                   | Analyzed                   | Dil Fac  |
| Total TPH                                 | <50.5          | U           | 50.5                 |     | mg/Kg          |   |                            | 11/22/23 17:36             | 1        |
| -<br>Method: SW846 8015B NM - Dies        | ol Bango Orga  |             |                      |     |                |   |                            |                            |          |
|   |                | Qualifier   | (GC)<br>RL           | MDL | Unit           | Б | Propared                   | Analyzod                   | Dil Fac  |
| Analyte<br>Casolino Pango Organico        |                |             | 50.5                 | MDL | Unit<br>mg/Kg  |   | Prepared<br>11/21/23 14:44 | Analyzed<br>11/22/23 17:36 | 1        |
| Gasoline Range Organics<br>(GRO)-C6-C10   | -00.0          | 5           | 50.5                 |     | myrry          |   | 11/2 1/20 14.44            | 11/22/20 11:00             |          |
| Diesel Range Organics (Over               | <50.5          | U           | 50.5                 |     | mg/Kg          |   | 11/21/23 14:44             | 11/22/23 17:36             | 1        |
| C10-C28)                                  |                |             |                      |     |                |   |                            |                            |          |
| Oll Range Organics (Over C28-C36)         | <50.5          | U           | 50.5                 |     | mg/Kg          |   | 11/21/23 14:44             | 11/22/23 17:36             | 1        |
| Surrogate                                 | %Recovery      | Qualifier   | Limits               |     |                |   | Prepared                   | Analyzed                   | Dil Fac  |
| 1-Chlorooctane                            | 139            | S1+         | 70 - 130             |     |                |   | 11/21/23 14:44             | 11/22/23 17:36             | 1        |
| o-Terphenyl                               | 121            |             | 70 - 130             |     |                |   | 11/21/23 14:44             | 11/22/23 17:36             | 1        |
| Method: EPA 300.0 - Anions, Ion           | Chromatogram   | hy - Solubl | <u>م</u>             |     |                |   |                            |                            |          |
|   |                |             |                      |     |                | _ |                            |                            |          |
| Analyte                                   | Result         | Qualifier   | RL                   | MDL | Unit           | D | Prepared                   | Analyzed                   | Dil Fac  |

### **Client Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

### Client Sample ID: S-1 (4.0') Date Collected: 11/20/23 00:00

Date Received: 11/21/23 10:01

| Analyte  | Result   | Qualifier  | RL   | MDL | Unit   | D            | Prepared   | Analyzed   | Dil Fac   |
|--|--|--|--|-----|--|--------------|--|--|---|
| Benzene  | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| Toluene  | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| Ethylbenzene   | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| m-Xylene & p-Xylene  | <0.00399   | U  | 0.00399  |     | mg/Kg  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| o-Xylene   | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| Xylenes, Total   | <0.00399   | U  | 0.00399  |     | mg/Kg  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| Surrogate  | %Recovery  | Qualifier  | Limits   |     |  |              | Prepared   | Analyzed   | Dil Fac   |
| 4-Bromofluorobenzene (Surr)  | 94   |  | 70 - 130   |     |  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| 1,4-Difluorobenzene (Surr)   | 109  |  | 70 - 130   |     |  |              | 11/21/23 14:52   | 11/22/23 10:34   | 1   |
| Method: TAL SOP Total BTEX -   | Total BTEX Calo  | culation   |  |     |  |              |  |  |   |
| Analyte  | Result   | Qualifier  | RL   | MDL | Unit   | D            | Prepared   | Analyzed   | Dil Fac   |
|  | <0.00399   | 11   | 0.00399  |     | mg/Kg  |              |  | 11/22/23 10:34   | 1   |
|  |  |  |  |     | iiig/Kg  |              |  | 11/22/23 10.04   |   |
| Method: SW846 8015 NM - Dies<br>Analyte  | el Range Organ<br>Result   | ics (DRO) (<br>Qualifier   | GC)<br>RL  | MDL | Unit   | D            | Prepared   | Analyzed   | Dil Fac   |
| Method: SW846 8015 NM - Dies<br>Analyte  | el Range Organ   | ics (DRO) (<br>Qualifier   | GC)  | MDL |  | <u>D</u>     | Prepared   |  | ·   |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH   | el Range Organ<br>Result<br><49.9  | <mark>ics (DRO) (</mark><br>Qualifier<br>U   | GC)<br>  | MDL | Unit   | <u>D</u>     | Prepared   | Analyzed   | Dil Fac   |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die   | el Range Organ<br>Result<br><49.9<br>esel Range Orga   | <mark>ics (DRO) (</mark><br>Qualifier<br>U   | GC)<br>  | MDL | Unit<br>mg/Kg                                    | <u>D</u><br> | Prepared   | Analyzed   | Dil Fac   |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Gasoline Range Organics   | el Range Organ<br>Result<br><49.9<br>esel Range Orga   | ics (DRO) (<br>Qualifier<br>U<br>unics (DRO)<br>Qualifier                            | GC)<br>- <u>RL</u><br>49.9   |     | Unit<br>mg/Kg                                    |              |  | Analyzed<br>11/22/23 17:58   | Dil Fac   |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over  | eel Range Organ<br>Result<br><49.9<br>esel Range Orga<br>Result  | ics (DRO) (<br>Qualifier<br>U<br>mics (DRO)<br>Qualifier<br>U                        | GC)<br><u>RL</u><br>49.9<br>(GC)<br><u>RL</u>  |     | Unit<br>mg/Kg<br>Unit                            |              | Prepared   | Analyzed<br>11/22/23 17:58<br>Analyzed   | Dil Fac<br>1<br>Dil Fac   |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Fotal TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Basoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)   | eel Range Organ<br>Result<br><49.9<br>esel Range Orga<br>Result<br><49.9   | ics (DRO) (<br>Qualifier<br>U<br>mics (DRO)<br>Qualifier<br>U<br>U                   | GC)<br><u>RL</u><br>49.9<br>(GC)<br><u>RL</u><br>49.9  |     | Unit<br>mg/Kg<br>Unit<br>mg/Kg                   |              | Prepared<br>11/21/23 14:44   | Analyzed<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58   | Dil Fac<br>1<br>Dil Fac<br>1  |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)  | eel Range Organ<br>Result<br><49.9<br>esel Range Orga<br>Result<br><49.9<br><49.9  | ics (DRO) (<br>Qualifier<br>U<br>mics (DRO)<br>Qualifier<br>U<br>U<br>U              | GC)<br><u>RL</u><br>49.9<br>(GC)<br><u>RL</u><br>49.9<br>49.9  |     | Unit<br>mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg          |              | Prepared<br>11/21/23 14:44<br>11/21/23 14:44   | Analyzed<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58<br>11/22/23 17:58   | Dil Fac<br>1<br>Dil Fac<br>1  |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate   | eel Range Organ<br>Result<br><49.9<br>esel Range Orga<br>Result<br><49.9<br><49.9<br><49.9   | ics (DRO) (<br>Qualifier<br>U<br>mics (DRO)<br>Qualifier<br>U<br>U<br>U<br>Qualifier | GC)<br>RL<br>49.9<br>(GC)<br>RL<br>49.9<br>49.9<br>49.9<br>49.9  |     | Unit<br>mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg          |              | Prepared<br>11/21/23 14:44<br>11/21/23 14:44<br>11/21/23 14:44                               | Analyzed<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58<br>11/22/23 17:58<br>11/22/23 17:58                               | Dil Fac<br>1<br>Dil Fac<br>1<br>1   |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Basoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>Dil Range Organics (Over C28-C36)<br>Surrogate<br>I-Chlorooctane   | eel Range Organ<br>Result<br><49.9<br>esel Range Orga<br>Result<br><49.9<br><49.9<br><49.9<br><49.9  | ics (DRO) (<br>Qualifier<br>U<br>mics (DRO)<br>Qualifier<br>U<br>U<br>U<br>Qualifier | GC)<br>RL<br>49.9<br>(GC)<br>RL<br>49.9<br>49.9<br>49.9<br>49.9<br>Limits                                |     | Unit<br>mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg          |              | Prepared<br>11/21/23 14:44<br>11/21/23 14:44<br>11/21/23 14:44<br>Prepared                   | Analyzed<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58<br>11/22/23 17:58<br>11/22/23 17:58<br>Analyzed                   | Dil Fac<br>1<br>Dil Fac<br>1<br>1<br>1<br>Dil Fac   |
| Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl   | eel Range Organ<br>Result<br><49.9<br>esel Range Orga<br>Result<br><49.9<br><49.9<br><49.9<br><49.9<br><49.9<br><139<br>121                              | ics (DRO) (<br>Qualifier<br>U<br>Qualifier<br>U<br>U<br>U<br>U<br>Qualifier<br>S1+   | GC)<br>RL<br>49.9<br>(GC)<br>RL<br>49.9<br>49.9<br>49.9<br>49.9<br><u>Limits</u><br>70 - 130<br>70 - 130 |     | Unit<br>mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg          |              | Prepared<br>11/21/23 14:44<br>11/21/23 14:44<br>11/21/23 14:44<br>Prepared<br>11/21/23 14:44 | Analyzed<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58<br>11/22/23 17:58<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58 | Dil Fac           1           Dil Fac           1           1           1           Dil Fac           1           1           1           1           1           1           1           1 |
| Total BTEX<br>Method: SW846 8015 NM - Dies<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Die<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>OII Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl<br>Method: EPA 300.0 - Anions, Ion<br>Analyte | el Range Organ<br>Result<br><49.9<br>esel Range Orga<br>Result<br><49.9<br><49.9<br><49.9<br><49.9<br><49.9<br>%Recovery<br>139<br>121<br>n Chromatograp | ics (DRO) (<br>Qualifier<br>U<br>Qualifier<br>U<br>U<br>U<br>U<br>Qualifier<br>S1+   | GC)<br>RL<br>49.9<br>(GC)<br>RL<br>49.9<br>49.9<br>49.9<br>49.9<br><u>Limits</u><br>70 - 130<br>70 - 130 |     | Unit<br>mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg<br>mg/Kg |              | Prepared<br>11/21/23 14:44<br>11/21/23 14:44<br>11/21/23 14:44<br>Prepared<br>11/21/23 14:44 | Analyzed<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58<br>11/22/23 17:58<br>11/22/23 17:58<br>Analyzed<br>11/22/23 17:58 | Dil Fac           1           Dil Fac           1           1           1           Dil Fac           1           1           1           1           1           1           1           1 |

Page 43 of 133

Job ID: 880-36054-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-36054-5

Matrix: Solid

Eurofins Midland

0.20054.4

### **Surrogate Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

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

|                        |                        |          |          | Percent Surrogate Recovery (Acceptance Limits) |
|------------------------|------------------------|----------|----------|--|
|                        |                        | BFB1     | DFBZ1    |  |
| Lab Sample ID          | Client Sample ID       | (70-130) | (70-130) |  |
| 880-35979-A-31-F MS    | Matrix Spike           | 104      | 101      |  |
| 880-35979-A-31-G MSD   | Matrix Spike Duplicate | 99       | 107      |  |
| 880-36054-1            | S-1 (0-1.0')           | 88       | 105      |  |
| 880-36054-2            | S-1 (1.5')             | 97       | 109      |  |
| 880-36054-3            | S-1 (2.0')             | 93       | 107      |  |
| 880-36054-4            | S-1 (3.0')             | 92       | 115      |  |
| 380-36054-5            | S-1 (4.0')             | 94       | 109      |  |
| LCS 880-67580/1-A      | Lab Control Sample     | 89       | 100      |  |
| LCSD 880-67580/2-A     | Lab Control Sample Dup | 92       | 108      |  |
| MB 880-67438/5-A       | Method Blank           | 117      | 149 S1+  |  |
| MB 880-67580/5-A       | Method Blank           | 107      | 141 S1+  |  |
| Surrogate Legend       |                        |          |          |  |
| BFB = 4-Bromofluoroben | zene (Surr)            |          |          |  |

### DFBZ = 1,4-Difluorobenzene (Surr)

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

### Matrix: Solid

|                     |                        |          |          | Percent Surrogate Recovery (Accepta |
|---------------------|------------------------|----------|----------|-------------------------------------|
|                     |                        | 1CO1     | OTPH1    |                                     |
| Lab Sample ID       | Client Sample ID       | (70-130) | (70-130) |                                     |
| 320-10978-A-16-E MS | Matrix Spike           | 146 S1+  | 113      |                                     |
| 20-10978-A-16-F MSD | Matrix Spike Duplicate | 133 S1+  | 102      |                                     |
| 80-36054-1          | S-1 (0-1.0')           | 146 S1+  | 123      |                                     |
| 80-36054-2          | S-1 (1.5')             | 161 S1+  | 138 S1+  |                                     |
| 30-36054-3          | S-1 (2.0')             | 152 S1+  | 131 S1+  |                                     |
| 30-36054-4          | S-1 (3.0')             | 139 S1+  | 121      |                                     |
| 80-36054-5          | S-1 (4.0')             | 139 S1+  | 121      |                                     |
| CS 880-67569/2-A    | Lab Control Sample     | 88       | 94       |                                     |
| CSD 880-67569/3-A   | Lab Control Sample Dup | 104      | 108      |                                     |
| MB 880-67569/1-A    | Method Blank           | 154 S1+  | 141 S1+  |                                     |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Page 44 of 133

5 6

Prep Type: Total/NA

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

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

| Lab Sample ID: MB 880-67438/5                   | 5-A          |           |                      |          |     |        |        |     |       | Client Sa  | mple ID: Me             |        |         |
|---|--------------|-----------|----------------------|----------|-----|--------|--------|-----|-------|------------|-------------------------|--------|---------|
| Matrix: Solid                                   |              |           |                      |          |     |        |        |     |       |            | Prep Typ                |        |         |
| Analysis Batch: 67556                           |              |           |                      |          |     |        |        |     |       |            | Prep Ba                 | tch:   | 67438   |
|   |              | MB        |                      |          |     |        |        | _   | _     |            |                         |        |         |
| Analyte   |              | Qualifier | RL                   |          | MDL | Unit   |        | D   |       | repared    | Analyzed                |        | Dil Fac |
| Benzene   | <0.00200     |           | 0.00200              |          |     | mg/Kg  |        |     |       | 0/23 14:09 | 11/21/23 16:1           |        | 1       |
| Toluene   | <0.00200     |           | 0.00200              |          |     | mg/Kg  |        |     |       | 0/23 14:09 | 11/21/23 16:1           |        | 1       |
| Ethylbenzene                                    | <0.00200     |           | 0.00200              |          |     | mg/Kg  |        |     |       | 0/23 14:09 | 11/21/23 16:1           |        | 1       |
| m-Xylene & p-Xylene                             | <0.00400     |           | 0.00400              |          |     | mg/Kg  |        |     |       | 0/23 14:09 | 11/21/23 16:1           |        | 1       |
| o-Xylene  | <0.00200     | U         | 0.00200              |          |     | mg/Kg  |        |     | 11/2  | 0/23 14:09 | 11/21/23 16:1           | 0      | 1       |
| Xylenes, Total                                  | <0.00400     | U         | 0.00400              |          |     | mg/Kg  |        |     | 11/2  | 0/23 14:09 | 11/21/23 16:1           | 0      | 1       |
|   | МЕ           | MB        |                      |          |     |        |        |     |       |            |                         |        |         |
| Surrogate                                       | %Recovery    | Qualifier | Limits               |          |     |        |        |     | P     | repared    | Analyzed                |        | Dil Fac |
| 4-Bromofluorobenzene (Surr)                     | 117          | ,         | 70 - 130             |          |     |        |        |     | 11/2  | 0/23 14:09 | 11/21/23 16::           | 10     | 1       |
| 1,4-Difluorobenzene (Surr)                      | 149          | ) S1+     | 70 - 130             |          |     |        |        |     | 11/2  | 0/23 14:09 | 11/21/23 16:            | 10     | 1       |
| Lab Sample ID: MB 880-67580/5<br>Matrix: Solid  | 5-A          |           |                      |          |     |        |        |     |       | Client Sa  | mple ID: Me<br>Prep Typ | e: To  | tal/NA  |
| Analysis Batch: 67556                           | ME           | MB        |                      |          |     |        |        |     |       |            | Prep Ba                 | tch:   | 67580   |
| Analyte   | ME<br>Result | Qualifier | RL                   |          | MDL | Unit   |        | D   | Р     | repared    | Analyzed                |        | Dil Fac |
| Benzene   | <0.00200     |           | 0.00200              |          |     | mg/Kg  |        | _   |       | 1/23 14:52 | 11/22/23 03:4           |        | 1       |
| Toluene   | <0.00200     |           | 0.00200              |          |     | mg/Kg  |        |     |       | 1/23 14:52 | 11/22/23 03:4           |        | 1       |
| Ethylbenzene                                    | <0.00200     |           | 0.00200              |          |     | mg/Kg  |        |     |       | 1/23 14:52 | 11/22/23 03:4           |        | 1       |
| m-Xylene & p-Xylene                             | <0.00200     |           | 0.00200              |          |     | mg/Kg  |        |     |       | 1/23 14:52 | 11/22/23 03:4           |        | 1       |
| o-Xylene  |              |           | 0.00400              |          |     |        |        |     |       | 1/23 14:52 |                         |        | 1       |
| -   | <0.00200     |           |                      |          |     | mg/Kg  |        |     |       |            | 11/22/23 03:4           |        |         |
| Xylenes, Total                                  | <0.00400     | U         | 0.00400              |          |     | mg/Kg  |        |     | 11/2  | 1/23 14:52 | 11/22/23 03:4           | 9      | 1       |
|   | ME           | MB        |                      |          |     |        |        |     |       |            |                         |        |         |
| Surrogate                                       | %Recovery    | Qualifier | Limits               |          |     |        |        |     | P     | repared    | Analyzed                |        | Dil Fac |
| 4-Bromofluorobenzene (Surr)                     | 107          | ,         | 70 - 130             |          |     |        |        |     | 11/2  | 1/23 14:52 | 11/22/23 03:4           | 19     | 1       |
| 1,4-Difluorobenzene (Surr)                      | 141          | S1+       | 70 - 130             |          |     |        |        |     | 11/2  | 1/23 14:52 | 11/22/23 03:4           | 19     | 1       |
| _<br>Lab Sample ID: LCS 880-67580/              | ′1-A         |           |                      |          |     |        |        | С   | lient | Sample     | ID: Lab Cont            | rol Sa | ample   |
| Matrix: Solid                                   |              |           |                      |          |     |        |        |     |       |            | Prep Typ                |        |         |
| Analysis Batch: 67556                           |              |           |                      |          |     |        |        |     |       |            | Prep Ba                 |        |         |
| · ····, ··· · · · · · · · · · · · · · ·         |              |           | Spike                | LCS      | LCS | ;      |        |     |       |            | %Rec                    |        |         |
| Analyte   |              |           | Added                | Result   | Qua | lifier | Unit   |     | D     | %Rec       | Limits                  |        |         |
| Benzene   |              |           | 0.100                | 0.1041   |     |        | mg/Kg  |     |       | 104        | 70 - 130                |        |         |
| Toluene   |              |           | 0.100                | 0.09065  |     |        | mg/Kg  |     |       | 91         | 70 - 130                |        |         |
| Ethylbenzene                                    |              |           | 0.100                | 0.08656  |     |        | mg/Kg  |     |       | 87         | 70 - 130                |        |         |
| m-Xylene & p-Xylene                             |              |           | 0.200                | 0.1921   |     |        | mg/Kg  |     |       | 96         | 70 - 130                |        |         |
| o-Xylene  |              |           | 0.100                | 0.09395  |     |        | mg/Kg  |     |       | 94         | 70 - 130                |        |         |
| 0-Xylene  |              |           | 0.100                | 0.03030  |     |        | mg/itg |     |       | 54         | 70 - 100                |        |         |
| Surrogate                                       | LCS LC       |           | Limite               |          |     |        |        |     |       |            |                         |        |         |
| Surrogate           4-Bromofluorobenzene (Surr) | 89 WRecovery | alifier   | Limits<br>70 - 130   |          |     |        |        |     |       |            |                         |        |         |
| 1,4-Difluorobenzene (Surr)                      | 89<br>100    |           | 70 - 130<br>70 - 130 |          |     |        |        |     |       |            |                         |        |         |
|   |              |           |                      |          |     |        |        |     |       |            |                         |        |         |
| Lab Sample ID: LCSD 880-6758                    | 0/2-A        |           |                      |          |     |        | Cli    | ent | Sam   | ple ID: L  | ab Control S            |        |         |
| Matrix: Solid                                   |              |           |                      |          |     |        |        |     |       |            | Prep Typ                | e: To  | tal/NA  |
| Analysis Batch: 67556                           |              |           |                      |          |     |        |        |     |       |            | Prep Ba                 | tch:   | 67580   |
|   |              |           | Spike                | LCSD     | LCS | D      |        |     |       |            | %Rec                    |        | RPD     |
| Analyte   |              |           | Added                | Result   | Qua | lifier | Unit   |     | D     | %Rec       | Limits                  | RPD    | Limit   |
|   |              |           | 0.400                | <u> </u> |     |        |        |     |       |            | 70 100                  |        | ~ ~ ~   |

Job ID: 880-36054-1 SDG: Lea County, New Mexico

Eurofins Midland

13

Benzene

0.1186

mg/Kg

119

70 - 130

0.100

35

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36054-1 SDG: Lea County, New Mexico

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

|                             |            | -         | . , .    |         |           |       |          |          |              |          |        |
|-----------------------------|------------|-----------|----------|---------|-----------|-------|----------|----------|--------------|----------|--------|
| Lab Sample ID: LCSD 880-6   | 67580/2-A  |           |          |         |           | Clie  | nt San   | ple ID:  | Lab Contro   |          |        |
| Matrix: Solid               |            |           |          |         |           |       |          |          |              | Туре: То |        |
| Analysis Batch: 67556       |            |           |          |         |           |       |          |          |              | Batch:   |        |
|                             |            |           | Spike    | LCSD    | LCSD      |       |          |          | %Rec         |          | RPD    |
| Analyte                     |            |           | Added    | Result  | Qualifier | Unit  | D        | %Rec     | Limits       | RPD      | Limi   |
| Toluene                     |            |           | 0.100    | 0.09170 |           | mg/Kg |          | 92       | 70 - 130     | 1        | 3      |
| Ethylbenzene                |            |           | 0.100    | 0.08494 |           | mg/Kg |          | 85       | 70 - 130     | 2        | 3      |
| m-Xylene & p-Xylene         |            |           | 0.200    | 0.1824  |           | mg/Kg |          | 91       | 70 - 130     | 5        | 3      |
| o-Xylene                    |            |           | 0.100    | 0.08874 |           | mg/Kg |          | 89       | 70 - 130     | 6        | 3      |
|                             | LCSD       | LCSD      |          |         |           |       |          |          |              |          |        |
| Surrogate                   | %Recovery  | Qualifier | Limits   |         |           |       |          |          |              |          |        |
| 4-Bromofluorobenzene (Surr) |            |           | 70 - 130 |         |           |       |          |          |              |          |        |
| 1,4-Difluorobenzene (Surr)  | 108        |           | 70 - 130 |         |           |       |          |          |              |          |        |
|                             |            |           |          |         |           |       |          |          |              |          |        |
| Lab Sample ID: 880-35979-/  | A-31-F MS  |           |          |         |           |       |          | Client   | Sample ID    | : Matrix | Spike  |
| Matrix: Solid               |            |           |          |         |           |       |          |          | Prep T       | Type: To | tal/N/ |
| Analysis Batch: 67556       |            |           |          |         |           |       |          |          | Prep         | Batch:   | 6758   |
|                             | Sample     | Sample    | Spike    | MS      | MS        |       |          |          | %Rec         |          |        |
| Analyte                     | Result     | Qualifier | Added    | Result  | Qualifier | Unit  | D        | %Rec     | Limits       |          |        |
| Benzene                     | <0.00198   | U         | 0.0990   | 0.1069  |           | mg/Kg |          | 108      | 70 - 130     |          |        |
| Toluene                     | <0.00198   | U         | 0.0990   | 0.08980 |           | mg/Kg |          | 91       | 70 - 130     |          |        |
| Ethylbenzene                | <0.00198   | U         | 0.0990   | 0.09199 |           | mg/Kg |          | 93       | 70 - 130     |          |        |
| m-Xylene & p-Xylene         | <0.00396   | U         | 0.198    | 0.2092  |           | mg/Kg |          | 106      | 70 - 130     |          |        |
| o-Xylene                    | <0.00198   | U         | 0.0990   | 0.09337 |           | mg/Kg |          | 94       | 70 - 130     |          |        |
|                             | MS         | MS        |          |         |           |       |          |          |              |          |        |
| Surrogate                   | %Recovery  |           | Limits   |         |           |       |          |          |              |          |        |
| 4-Bromofluorobenzene (Surr) |            |           | 70 - 130 |         |           |       |          |          |              |          |        |
| 1,4-Difluorobenzene (Surr)  | 101        |           | 70 - 130 |         |           |       |          |          |              |          |        |
|                             |            |           |          |         |           |       |          |          |              |          |        |
| Lab Sample ID: 880-35979-/  | A-31-G MSD |           |          |         |           | CI    | lient Sa | ample IC | D: Matrix Sp |          |        |
| Matrix: Solid               |            |           |          |         |           |       |          |          |              | Type: To |        |
| Analysis Batch: 67556       | <b>.</b> . |           | • "      |         |           |       |          |          |              | Batch:   |        |
|                             | •          | Sample    | Spike    | MSD     |           |       | -        | ~ -      | %Rec         |          | RPD    |
| Analyte                     |            | Qualifier | Added    |         | Qualifier | Unit  | D        | %Rec     | Limits       | RPD      | Limit  |
| Benzene                     | < 0.00198  |           | 0.101    | 0.1174  |           | mg/Kg |          | 116      | 70 - 130     | 9        | 35     |
| Toluene                     | <0.00198   | U         | 0.101    | 0.09287 |           | mg/Kg |          | 92       | 70 - 130     | 3        | 35     |
|                             |            |           |          |         |           |       |          |          |              |          |        |

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

<0.00198 U

<0.00396 U

<0.00198 U

MSD MSD

%Recovery Qualifier

99

107

| Lab Sample ID: MB 880-67569/1-A<br>Matrix: Solid<br>Analysis Batch: 67601 | мв    | МВ        |        |     |       |          | Client Sa      | mple ID: Metho<br>Prep Type: <sup>-</sup><br>Prep Batcl | Fotal/NA |
|---|-------|-----------|--------|-----|-------|----------|----------------|---|----------|
| Analyte   |       | Qualifier | RL<br> | MDL | Unit  | <u>D</u> | Prepared       | Analyzed  | Dil Fac  |
| Gasoline Range Organics<br>(GRO)-C6-C10                                   | <50.0 | 0         | 50.0   |     | mg/Kg |          | 11/21/23 14.44 | 11/22/23 00:19  | I        |

0.101

0.202

0.101

Limits

70 - 130

70 - 130

0.09302

0.1981

0.09592

**Eurofins Midland** 

92

98

95

mg/Kg

mg/Kg

mg/Kg

70 - 130

70 - 130

70 - 130

Ethylbenzene

o-Xylene

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

35

35

35

1

5

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36054-1 SDG: Lea County, New Mexico

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

| Lab Sample ID: MB 880-67569/            | / <b>1-A</b> |               |          |        |     |        |       |     |      | Client Sa  | ample ID: I    |                 |        |
|---|--------------|---------------|----------|--------|-----|--------|-------|-----|------|------------|----------------|-----------------|--------|
| Matrix: Solid                           |              |               |          |        |     |        |       |     |      |            | Prep T         |                 |        |
| Analysis Batch: 67601                   |              |               |          |        |     |        |       |     |      |            | Prep           | Batch           | : 6756 |
|   |              | MB MB         | _        |        |     |        |       | _   |      | -          |                |                 |        |
| Analyte                                 |              | ult Qualifier |          |        | MDL | Unit   |       | D   |      | repared    | Analyz         |                 | Dil Fa |
| Diesel Range Organics (Over<br>C10-C28) | <50          | 0.0 U         | 50.0     |        |     | mg/Kg  | 9     |     | 11/2 | 1/23 14:44 | 11/22/23 (     | 08:19           |        |
| Oll Range Organics (Over C28-C36)       | <50          | 0.0 U         | 50.0     |        |     | mg/Kg  | 9     |     | 11/2 | 1/23 14:44 | 11/22/23 (     | 08:19           |        |
|   | Λ            | MB MB         |          |        |     |        |       |     |      |            |                |                 |        |
| Surrogate                               | %Recove      | <u> </u>      | Limits   |        |     |        |       |     |      | repared    | Analyz         |                 | Dil Fa |
| 1-Chlorooctane                          |              | 54 S1+        | 70 - 130 |        |     |        |       |     |      | 1/23 14:44 | 11/22/23 (     |                 |        |
| p-Terphenyl                             | 1            | 41 S1+        | 70 - 130 |        |     |        |       |     | 11/2 | 1/23 14:44 | 11/22/23 (     | 08:19           |        |
| Lab Sample ID: LCS 880-67569            | 9/2-A        |               |          |        |     |        |       | Cli | ent  | Sample     | ID: Lab Co     | ontrol          | Sampl  |
| Matrix: Solid                           |              |               |          |        |     |        |       |     |      |            | Prep T         | ype: T          | otal/N |
| Analysis Batch: 67601                   |              |               |          |        |     |        |       |     |      |            | Prep           | Batch           | : 6756 |
|   |              |               | Spike    | LCS    | LCS |        |       |     |      |            | %Rec           |                 |        |
| Analyte                                 | =            |               | Added    | Result | Qua | lifier | Unit  |     | D    | %Rec       | Limits         |                 |        |
| Gasoline Range Organics<br>GRO)-C6-C10  |              |               | 1000     | 1035   |     |        | mg/Kg |     |      | 103        | 70 - 130       |                 |        |
| Diesel Range Organics (Over<br>C10-C28) |              |               | 1000     | 995.3  |     |        | mg/Kg |     |      | 100        | 70 - 130       |                 |        |
|   | LCS L        | .cs           |          |        |     |        |       |     |      |            |                |                 |        |
| Surrogate                               | %Recovery G  | Qualifier     | Limits   |        |     |        |       |     |      |            |                |                 |        |
| I-Chlorooctane                          | 88           |               | 70 - 130 |        |     |        |       |     |      |            |                |                 |        |
| p-Terphenyl                             | 94           |               | 70 - 130 |        |     |        |       |     |      |            |                |                 |        |
| Matrix: Solid<br>Analysis Batch: 67601  |              |               |          |        |     |        |       |     |      |            | Prep T<br>Prep | ype: T<br>Batch |        |
|   |              |               | Spike    | LCSD   | LCS | D      |       |     |      |            | %Rec           |                 | RP     |
| Analyte                                 |              |               | Added    | Result | Qua | lifier | Unit  |     | D    | %Rec       | Limits         | RPD             | Lin    |
| Gasoline Range Organics<br>GRO)-C6-C10  |              |               | 1000     | 1049   |     |        | mg/Kg |     |      | 105        | 70 - 130       | 1               | 2      |
| Diesel Range Organics (Over<br>C10-C28) |              |               | 1000     | 1074   |     |        | mg/Kg |     |      | 107        | 70 - 130       | 8               | :      |
|   | LCSD L       | .CSD          |          |        |     |        |       |     |      |            |                |                 |        |
| Surrogate                               | %Recovery G  | Qualifier     | Limits   |        |     |        |       |     |      |            |                |                 |        |
| 1-Chlorooctane                          | 104          |               | 70 - 130 |        |     |        |       |     |      |            |                |                 |        |
| p-Terphenyl                             | 108          |               | 70 - 130 |        |     |        |       |     |      |            |                |                 |        |
| Lab Sample ID: 820-10978-A-1            | 6-E MS       |               |          |        |     |        |       |     |      | Client S   | Sample ID:     | : Matri         | x Spik |
| Matrix: Solid                           |              |               |          |        |     |        |       |     |      |            | Prep T         |                 |        |
| Analysis Batch: 67601                   |              |               |          |        |     |        |       |     |      |            |                | Batch           |        |
|   | Sample S     | ample         | Spike    | MS     | MS  |        |       |     |      |            | %Rec           |                 |        |
| Analyte                                 | Result C     | Qualifier     | Added    | Result | Qua | lifier | Unit  |     | D    | %Rec       | Limits         |                 |        |
| Gasoline Range Organics<br>GRO)-C6-C10  | <50.1 L      | J F2          | 993      | 1110   |     |        | mg/Kg |     | _    | 108        | 70 - 130       |                 |        |
| Diesel Range Organics (Over<br>C10-C28) | <50.1 L      | J F1          | 993      | 1339   | F1  |        | mg/Kg |     |      | 132        | 70 - 130       |                 |        |
|   | MS N         | IS            |          |        |     |        |       |     |      |            |                |                 |        |
| Surrogate                               | %Recovery G  |               | Limits   |        |     |        |       |     |      |            |                |                 |        |
| 1-Chlorooctane                          | 146 5        |               | 70 - 130 |        |     |        |       |     |      |            |                |                 |        |
|   |              |               |          |        |     |        |       |     |      |            |                |                 |        |

Page 47 of 133

Eurofins Midland

113

o-Terphenyl

70 - 130

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) **Page** 48 of 133

Job ID: 880-36054-1 SDG: Lea County, New Mexico

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

| Matrix: Solid  |  |                     |   |  |   |                      |          |   | Prep 1   | Туре: То  | tal/NA   |
|--|--|---------------------|---|--|---|----------------------|----------|---|--|---|--|
| Analysis Batch: 67601  |  |                     |   |  |   |                      |          |   |  | Batch:  |  |
|  | Sample   | Sample              | Spike   | MSD  | MSD   |                      |          |   | %Rec   |   | RPD  |
| Analyte  | -  | Qualifier           | Added   | Result   | Qualifier   | Unit                 | D        | %Rec  | Limits   | RPD   | Limi   |
| Gasoline Range Organics  | <50.1  |                     | 993   | 864.6  | F2  | mg/Kg                |          | 83  | 70 - 130   | 25  | 2  |
| (GRO)-C6-C10   |  |                     |   |  |   |                      |          |   |  |   |  |
| Diesel Range Organics (Over<br>C10-C28)  | <50.1  | U F1                | 993   | 1200   |   | mg/Kg                |          | 118   | 70 - 130   | 11  | 2  |
|  | MSD  | MSD                 |   |  |   |                      |          |   |  |   |  |
| Surrogate  | %Recovery  | Qualifier           | Limits  |  |   |                      |          |   |  |   |  |
| 1-Chlorooctane   |  | <u></u>             | 70 - 130  |  |   |                      |          |   |  |   |  |
| o-Terphenyl  | 102  |                     | 70 - 130  |  |   |                      |          |   |  |   |  |
| ethod: 300.0 - Anions, I<br>Lab Sample ID: MB 880-6764<br>Matrix: Solid<br>Analysis Batch: 67733   |  | ography             |   |  |   |                      |          | Client S  | Sample ID:<br>Prep   | Method<br>Type: S                                       |  |
|  |  | MB MB               |   |  |   |                      |          |   |  |   |  |
| Analyte  | R  | esult Qualifier     |   | RL   | MDL Unit  |                      | D P      | repared   | Analyz   | zed   | Dil Fa   |
| Chloride   | <  | <5.00 U             |   | 5.00   | mg/K  | g                    |          |   | 11/27/23   | 13:22   |  |
| Matrix: Solid  |  |                     |   |  |   |                      |          |   |  | Type: S   |  |
| Matrix: Solid<br>Analysis Batch: 67733   |  |                     | Spike<br>Added  |  | LCS<br>Qualifier                                  | Unit                 | D        | %Rec  |  | Type: S   |  |
| Matrix: Solid<br>Analysis Batch: 67733<br><sup>Analyte</sup>   |  |                     |   |  |   | Unit<br>mg/Kg        | <u>D</u> | %Rec<br>94  | Prep<br>%Rec   | Type: S   |  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride  |  |                     | Added   | Result   |   | mg/Kg                |          | 94  | Prep<br>%Rec<br>Limits<br>90 - 110   |   | olub   |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67  | <br>7648/3-A                                     |                     | Added   | Result   |   | mg/Kg                |          | 94  | Prep<br>%Rec<br>Limits<br>90 - 110   | <br>ol Sampl  | olub<br>le Du  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid   | <br>7648/3-A                                     |                     | Added   | Result   |   | mg/Kg                |          | 94  | Prep<br>%Rec<br>Limits<br>90 - 110   |   | olub<br>le Du  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid   | <br>7648/3-A                                     |                     | Added<br>250  | Result<br>234.4  | Qualifier   | mg/Kg                |          | 94  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep   | <br>ol Sampl  | le Du<br>olub  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733  | <br>7648/3-A                                     |                     | Added<br>250<br>Spike   | Result<br>234.4<br>LCSD  | Qualifier   | mg/Kg<br>Clie        | ent Sam  | 94<br>aple ID:                                    | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec   | ol Sampl<br>Type: S                                     | olubi<br>le Du<br>olubi<br>RP  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte   | <br>7648/3-A                                     |                     | Added<br>250<br>Spike<br>Added                                  | Result<br>234.4<br>LCSD<br>Result  | Qualifier   | mg/Kg<br>Clie        |          | 94  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits   | <br>ol Sampl  | olubi<br>le Du<br>olubi<br>RP<br>Lim   |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte   | <br>7648/3-A                                     |                     | Added<br>250<br>Spike   | Result<br>234.4<br>LCSD  | Qualifier   | mg/Kg<br>Clie        | ent Sam  | 94<br>nple ID:                                    | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec   | DI Sampl<br>Type: S<br>                                 | olubi<br>le Du<br>olubi<br>RP<br>Lim   |
| Lab Sample ID: LCS 880-676<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5   |  |                     | Added<br>250<br>Spike<br>Added                                  | Result<br>234.4<br>LCSD<br>Result  | Qualifier   | mg/Kg<br>Clie        | ent Sam  | 94<br>nple ID:<br>%Rec<br>95                      | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits   | DI Sampl<br>Type: S<br>                                 | olubi<br>le Du<br>olubi<br>RP<br>Lim<br>2  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride   |  |                     | Added<br>250<br>Spike<br>Added                                  | Result<br>234.4<br>LCSD<br>Result  | Qualifier   | mg/Kg<br>Clie        | ent Sam  | 94<br>nple ID:<br>%Rec<br>95                      | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample                                   | DI Sampl<br>Type: S<br>                                 | olubi<br>le Du<br>olubi<br>RP<br>Lim<br>2<br>(4.0                                |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid  |  |                     | Added<br>250<br>Spike<br>Added                                  | Result<br>234.4<br>LCSD<br>Result  | Qualifier   | mg/Kg<br>Clie        | ent Sam  | 94<br>nple ID:<br>%Rec<br>95                      | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample                                   | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1            | olubi<br>le Du<br>olubi<br>RP<br>Lim<br>2<br>(4.0                                |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5   |  |                     | Added<br>250<br>Spike<br>Added                                  | Result<br>234.4<br>LCSD<br>Result<br>237.6   | Qualifier   | mg/Kg<br>Clie        | ent Sam  | 94<br>nple ID:<br>%Rec<br>95                      | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample                                   | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1            | le Du<br>olubi<br>RP<br>Lim<br>2<br>(4.0   |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid<br>Analysis Batch: 67733   |  | Sample<br>Qualifier | Added<br>250<br>Spike<br>Added<br>250                           | Result<br>234.4<br>LCSD<br>Result<br>237.6   | Qualifier<br>LCSD<br>Qualifier                    | mg/Kg<br>Clie        | ent Sam  | 94<br>nple ID:<br>%Rec<br>95                      | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample<br>Prep                           | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1            | olubi<br>le Du<br>olubi<br>RP<br>Lim<br>2<br>(4.0                                |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte  |  | -                   | Added<br>250<br>Spike<br>Added<br>250<br>Spike                  | Result<br>234.4<br>LCSD<br>Result<br>237.6   | Qualifier<br>LCSD<br>Qualifier<br>MS              | Unit<br>mg/Kg        | ent Sam  | 94<br>nple ID:<br>%Rec<br>95<br>Cli               | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample<br>Prep<br>%Rec                   | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1            | olubi  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5                  | MS<br>Sample<br>Result<br>10100                  | -                   | Added<br>250<br>Spike<br>Added<br>250<br>Spike<br>Added         | Result<br>234.4<br>LCSD<br>Result<br>237.6<br>MS<br>Result   | Qualifier<br>LCSD<br>Qualifier<br>MS              | Unit<br>Unit<br>Unit | ent Sam  | 94<br>pple ID:<br>%Rec<br>95<br>Cli<br>%Rec<br>92 | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample<br>90 - 110<br>ent Sample         | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1<br>Type: S | olub<br>le Du<br>olub<br>RP<br>Linr<br>2<br>(4.0<br>olub<br>(4.0<br>(4.0<br>(4.0 |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid  | MS<br>Sample<br>Result<br>10100                  | -                   | Added<br>250<br>Spike<br>Added<br>250<br>Spike<br>Added         | Result<br>234.4<br>LCSD<br>Result<br>237.6<br>MS<br>Result   | Qualifier<br>LCSD<br>Qualifier<br>MS              | Unit<br>Unit<br>Unit | ent Sam  | 94<br>pple ID:<br>%Rec<br>95<br>Cli<br>%Rec<br>92 | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample<br>90 - 110<br>ent Sample         | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1<br>Type: S | olubl<br>ele Du<br>olubl<br>RP<br>Lim<br>2<br>(4.0<br>olubl<br>(4.0              |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid | MS<br>Sample<br>Result<br>10100<br>MSD           | -                   | Added<br>250<br>Spike<br>Added<br>250<br>Spike<br>Added         | Result           234.4           LCSD           Result           237.6           MS           Result           14660 | Qualifier<br>LCSD<br>Qualifier<br>MS              | Unit<br>Unit<br>Unit | ent Sam  | 94<br>pple ID:<br>%Rec<br>95<br>Cli<br>%Rec<br>92 | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample<br>90 - 110<br>ent Sample         | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1<br>Type: S | olubi<br>le Du<br>olubi<br>RP<br>Lim<br>2<br>(4.0<br>olubi<br>(4.0<br>(4.0       |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36054-5<br>Matrix: Solid | MS<br>Sample<br>Result<br>10100<br>MSD<br>Sample | Qualifier           | Added<br>250<br>Spike<br>Added<br>250<br>Spike<br>Added<br>4950 | Result<br>234.4<br>LCSD<br>Result<br>237.6<br>MS<br>Result<br>14660  | Qualifier<br>LCSD<br>Qualifier<br>MS<br>Qualifier | Unit<br>Unit<br>Unit | ent Sam  | 94<br>pple ID:<br>%Rec<br>95<br>Cli<br>%Rec<br>92 | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>ent Sample<br>90 - 110<br>ent Sample<br>Prep | DI Sampl<br>Type: S<br>RPD<br>1<br>e ID: S-1<br>Type: S | olubl<br>le Du<br>olubl<br>RP<br>Lim<br>2<br>(4.0<br>olubl<br>(4.0<br>olubl      |

Released to Imaging: 4/1/2024 7:45:25 AM

### **QC Association Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36054-1 SDG: Lea County, New Mexico

### **GC VOA**

### Prep Batch: 67438

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batcl |
|----------------------|------------------------|-----------|--------|--------|------------|
| MB 880-67438/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| nalysis Batch: 67556 |                        |           |        |        |            |
| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
| 380-36054-1          | S-1 (0-1.0')           | Total/NA  | Solid  | 8021B  | 6758       |
| 380-36054-2          | S-1 (1.5')             | Total/NA  | Solid  | 8021B  | 6758       |
| 80-36054-3           | S-1 (2.0')             | Total/NA  | Solid  | 8021B  | 6758       |
| 380-36054-4          | S-1 (3.0')             | Total/NA  | Solid  | 8021B  | 6758       |
| 80-36054-5           | S-1 (4.0')             | Total/NA  | Solid  | 8021B  | 6758       |
| /IB 880-67438/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 6743       |
| /IB 880-67580/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 6758       |
| _CS 880-67580/1-A    | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 6758       |
| _CSD 880-67580/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 6758       |
| 80-35979-A-31-F MS   | Matrix Spike           | Total/NA  | Solid  | 8021B  | 6758       |
| 380-35979-A-31-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 6758       |

### Prep Batch: 67580

| Lab Sample ID        | Client Sample ID       | Ргер Туре | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-36054-1          | S-1 (0-1.0')           | Total/NA  | Solid  | 5035   |            |
| 880-36054-2          | S-1 (1.5')             | Total/NA  | Solid  | 5035   |            |
| 880-36054-3          | S-1 (2.0')             | Total/NA  | Solid  | 5035   |            |
| 880-36054-4          | S-1 (3.0')             | Total/NA  | Solid  | 5035   |            |
| 880-36054-5          | S-1 (4.0')             | Total/NA  | Solid  | 5035   |            |
| MB 880-67580/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-67580/1-A    | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-67580/2-A   | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-35979-A-31-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-35979-A-31-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 67619

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-36054-1   | S-1 (0-1.0')     | Total/NA  | Solid  | Total BTEX |            |
| 880-36054-2   | S-1 (1.5')       | Total/NA  | Solid  | Total BTEX |            |
| 880-36054-3   | S-1 (2.0')       | Total/NA  | Solid  | Total BTEX |            |
| 880-36054-4   | S-1 (3.0')       | Total/NA  | Solid  | Total BTEX |            |
| 880-36054-5   | S-1 (4.0')       | Total/NA  | Solid  | Total BTEX |            |

### GC Semi VOA

### Prep Batch: 67569

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 880-36054-1          | S-1 (0-1.0')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36054-2          | S-1 (1.5')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36054-3          | S-1 (2.0')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36054-4          | S-1 (3.0')             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36054-5          | S-1 (4.0')             | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-67569/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-67569/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-67569/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 820-10978-A-16-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 820-10978-A-16-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

Eurofins Midland

### **QC Association Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1 SDG: Lea County, New Mexico

### GC Semi VOA

### Analysis Batch: 67601

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-36054-1          | S-1 (0-1.0')           | Total/NA  | Solid  | 8015B NM | 67569      |
| 880-36054-2          | S-1 (1.5')             | Total/NA  | Solid  | 8015B NM | 67569      |
| 880-36054-3          | S-1 (2.0')             | Total/NA  | Solid  | 8015B NM | 67569      |
| 880-36054-4          | S-1 (3.0')             | Total/NA  | Solid  | 8015B NM | 67569      |
| 880-36054-5          | S-1 (4.0')             | Total/NA  | Solid  | 8015B NM | 67569      |
| MB 880-67569/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 67569      |
| LCS 880-67569/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 67569      |
| LCSD 880-67569/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 67569      |
| 820-10978-A-16-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 67569      |
| 820-10978-A-16-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 67569      |

### Analysis Batch: 67750

| LC3 000-07 309/2-A    | Lab Control Sample     | IUlai/INA | 3010   |          | 07509      |    |
|-----------------------|------------------------|-----------|--------|----------|------------|----|
| LCSD 880-67569/3-A    | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 67569      | 8  |
| 820-10978-A-16-E MS   | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 67569      |    |
| 820-10978-A-16-F MSD  | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 67569      | 9  |
| Analysis Batch: 67750 |                        |           |        |          |            | 10 |
| Lab Sample ID         | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |    |
| 880-36054-1           | S-1 (0-1.0')           | Total/NA  | Solid  | 8015 NM  |            |    |
| 880-36054-2           | S-1 (1.5')             | Total/NA  | Solid  | 8015 NM  |            |    |
| 880-36054-3           | S-1 (2.0')             | Total/NA  | Solid  | 8015 NM  |            |    |
| 880-36054-4           | S-1 (3.0')             | Total/NA  | Solid  | 8015 NM  |            |    |
| 880-36054-5           | S-1 (4.0')             | Total/NA  | Solid  | 8015 NM  |            | 19 |
| IPLC/IC               |                        |           |        |          |            | R  |
|                       |                        |           |        |          |            |    |
|                       |                        |           |        |          |            |    |

### HPLC/IC

### Leach Batch: 67648

| Lab Sample ID      | Client Sample ID       | Ргер Туре | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-36054-1        | S-1 (0-1.0')           | Soluble   | Solid  | DI Leach |            |
| 880-36054-2        | S-1 (1.5')             | Soluble   | Solid  | DI Leach |            |
| 880-36054-3        | S-1 (2.0')             | Soluble   | Solid  | DI Leach |            |
| 880-36054-4        | S-1 (3.0')             | Soluble   | Solid  | DI Leach |            |
| 880-36054-5        | S-1 (4.0')             | Soluble   | Solid  | DI Leach |            |
| MB 880-67648/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-67648/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-67648/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-36054-5 MS     | S-1 (4.0')             | Soluble   | Solid  | DI Leach |            |
| 880-36054-5 MSD    | S-1 (4.0')             | Soluble   | Solid  | DI Leach |            |

### Analysis Batch: 67733

| Lab Sample ID      | Client Sample ID       | Ргер Туре | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-36054-1        | S-1 (0-1.0')           | Soluble   | Solid  | 300.0  | 67648      |
| 880-36054-2        | S-1 (1.5')             | Soluble   | Solid  | 300.0  | 67648      |
| 880-36054-3        | S-1 (2.0')             | Soluble   | Solid  | 300.0  | 67648      |
| 880-36054-4        | S-1 (3.0')             | Soluble   | Solid  | 300.0  | 67648      |
| 880-36054-5        | S-1 (4.0')             | Soluble   | Solid  | 300.0  | 67648      |
| MB 880-67648/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 67648      |
| LCS 880-67648/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 67648      |
| LCSD 880-67648/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 67648      |
| 880-36054-5 MS     | S-1 (4.0')             | Soluble   | Solid  | 300.0  | 67648      |
| 880-36054-5 MSD    | S-1 (4.0')             | Soluble   | Solid  | 300.0  | 67648      |

Page 50 of 133

Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1 SDG: Lea County, New Mexico

### Lab Sample ID: 880-36054-1 Matrix: Solid

Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

Client Sample ID: S-1 (0-1.0')

**Client: Carmona Resources** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 09:12 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 67619  | 11/22/23 09:12 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67750  | 11/22/23 16:30 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10 mL  | 67569  | 11/21/23 14:44 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 16:30 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 5      | 50 mL   | 50 mL  | 67733  | 11/27/23 14:35 | СН      | EET MID |

### Lab Sample ID: 880-36054-2

Lab Sample ID: 880-36054-3

Matrix: Solid

Matrix: Solid

5 6

9

Client Sample ID: S-1 (1.5') Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 09:32 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 67619  | 11/22/23 09:32 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67750  | 11/22/23 16:52 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.98 g  | 10 mL  | 67569  | 11/21/23 14:44 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 16:52 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.95 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 10     | 50 mL   | 50 mL  | 67733  | 11/27/23 14:41 | СН      | EET MID |

### Client Sample ID: S-1 (2.0') Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.96 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 09:53 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 67619  | 11/22/23 09:53 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67750  | 11/22/23 17:15 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.95 g  | 10 mL  | 67569  | 11/21/23 14:44 | ТКС     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 17:15 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.05 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 10     | 50 mL   | 50 mL  | 67733  | 11/27/23 14:46 | СН      | EET MID |

### Client Sample ID: S-1 (3.0') Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 4.99 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 10:13 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 67619  | 11/22/23 10:13 | SM      | EET MID |

**Eurofins Midland** 

Released to Imaging: 4/1/2024 7:45:25 AM

Lab Sample ID: 880-36054-4 Matrix: Solid

### Client Sample ID: S-1 (3.0') Date Collected: 11/20/23 00:00

Date Received: 11/21/23 10:01

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67750  | 11/22/23 17:36 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.90 g  | 10 mL  | 67569  | 11/21/23 14:44 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 17:36 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 10     | 50 mL   | 50 mL  | 67733  | 11/27/23 14:52 | СН      | EET MID |

### Client Sample ID: S-1 (4.0') Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 10:34 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 67619  | 11/22/23 10:34 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67750  | 11/22/23 17:58 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10 mL  | 67569  | 11/21/23 14:44 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 17:58 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.05 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 20     | 50 mL   | 50 mL  | 67733  | 11/27/23 14:58 | CH      | EET MID |

### Laboratory References:

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

Job ID: 880-36054-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-36054-4

Lab Sample ID: 880-36054-5

Matrix: Solid

Matrix: Solid

### Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36054-1 SDG: Lea County, New Mexico

### Laboratory: Eurofins Midland

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

| uthority                                | Program                      | n      | Identification Number                    | Expiration Date        |  |  |
|---|------------------------------|--------|--|------------------------|--|--|
| exas                                    | NELAP                        |        | T104704400-23-26                         | 06-30-24               |  |  |
|   |                              |        |  |                        |  |  |
| for which the agency of                 | oes not offer certification. | ,      | ied by the governing authority. This lis | t may include analytes |  |  |
| for which the agency of Analysis Method |                              | Matrix | Analyte                                  | t may include analytes |  |  |
| for which the agency of                 | oes not offer certification. | ,      |  | t may include analytes |  |  |

10

### **Method Summary**

### Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36054-1 SDG: Lea County, New Mexico

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 3021B       | Volatile Organic Compounds (GC)    | SW846    | EET MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | EET MID    |
| 3015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 3015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 300.0       | Anions, Ion Chromatography         | EPA      | EET MID    |
| 5035        | Closed System Purge and Trap       | SW846    | EET MID    |
| 3015NM Prep | Microextraction                    | SW846    | EET MID    |
| OI Leach    | Deionized Water Leaching Procedure | ASTM     | EET MID    |

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36054-1 SDG: Lea County, New Mexico

| Lab Sample ID         Client Sample ID         Matrix         Collected         Received           880-36054-1         S-1 (0-1.0')         Solid         11/20/23 00:00         11/21/23 10:01           880-36054-2         S-1 (1.5')         Solid         11/20/23 00:00         11/21/23 10:01           880-36054-3         S-1 (2.0')         Solid         11/20/23 00:00         11/21/23 10:01 |
|---|
| 880-36054-2         S-1 (1.5')         Solid         11/20/23 00:00         11/21/23 10:01           880-36054-3         S-1 (2.0')         Solid         11/20/23 00:00         11/21/23 10:01   |
| 880-36054-3         S-1         (2.0')         Solid         11/20/23         00:00         11/21/23         10:01  |
|   |
|   |
| 880-36054-4 S-1 (3.0') Solid 11/20/23 00:00 11/21/23 10:01  |
| 880-36054-5 S-1 (4.0') Solid 11/20/23 00:00 11/21/23 10:01  |

Received by OCD: 1/25/2024 9:54:33 AM

|                      |  |                            |                                       |                       |             |               | e            |            | đaj                   | l              |         |       |        |        |          |              | W     |        | 880-360  | 054 Chain o                                   |          |                         | 11/28/2023 |
|----------------------|--|----------------------------|---------------------------------------|-----------------------|-------------|---------------|--------------|------------|-----------------------|----------------|---------|-------|--------|--------|----------|--------------|-------|--------|----------|---|----------|-------------------------|------------|
| Project Manager      | Conner Moehri                                  | na                         |                                       |                       | Bill to (if | difforant)    |              | Carmo      | Do Do                 |                | •       |       |        |        |          |              |       | 14/    |          | Page  |          | of1_                    |            |
|                      | Carmona Resc                                   |                            |                                       |                       | Company     |               |              | Carrie     |                       | source         |         |       |        |        | Broom    |              | 7/00  |        |          | er Commer<br>ownfields [                      |          | <u> </u>                |            |
|                      | 310 W Wall St                                  |                            |                                       |                       | Address.    | Hame.         |              |            |                       |                |         |       |        |        |          | of Proj      |       |        | P Du     | ownneids (                                    | _KRC     | perfund                 | Ч          |
|                      | Midland, TX 79                                 | 701                        |                                       |                       | City, Stat  | e 71P         |              |            |                       |                |         |       |        |        |          | -            |       | level  |          | ST/UST  | RRP      | Level IV                |            |
|                      | 432-813-6823                                   |                            |                                       | Email                 | mcarmo      |               | monares      | source     | s.com                 | <br>}          |         |       |        |        |          | erables.     |       |        |          | aPT   | Other    |                         |            |
| Project Name:        |  | ep Unit 028H (             | 10 04 00)                             | 1                     |             |               |              |            |                       | <u>.</u>       |         |       |        |        |          |              |       |        |          |   |          |                         |            |
| Project Number       | LUSK Det                                       | 2195                       | 10.24.23)                             | Turn<br>Routine       | Around      |               | Pres.        | ı          |                       |                |         | AN.   | ALYSI  | S REC  |          | - T          | T     | T      | <u> </u> |   |          | ve Codes                | 4          |
| Project Location     | 1000   | County, New M              | loxico                                |                       | Т           |               | Code         |            |                       |                |         |       |        | ——     |          | <b>└──</b> ╂ |       |        |          | None. N                                       |          | DI Water H <sub>2</sub> | 0          |
| Sampler's Name.      | Lea  | GPJ                        |                                       | Due Date <sup>.</sup> | 1 12        | HR            |              |            | õ                     |                |         |       |        |        |          |              |       |        |          | Cool Co                                       |          | MeOH Me                 |            |
| PO #                 |  |                            | -                                     | 1                     |             |               | (A)          |            | + MRO)                |                |         |       |        |        |          |              |       |        |          | HCL HC<br>H₂S0₄. ⊦                            |          | HNO3. HN                |            |
| SAMPLE RECEI         | PT Ten   | np Blank:                  | Ves No                                | Wet Ice:              | (Yes)       | ) No          | Parameters   |            | ой<br>С               | 0              |         |       |        |        |          |              |       |        |          | H <sub>2</sub> SO <sub>4</sub> . F            |          | NaOH Na                 |            |
| Received Intact:     | (re  | s No                       | Thermometer ID                        |                       |             | ÛB            | an           | BTEX 8021B | + -                   | Chloride 300 0 |         |       |        |        |          |              |       |        |          | NaHSO4  |          |                         |            |
| Cooler Custody Seals |  | No N/À                     | Correction Facto                      | Г                     | + 2         | 26            | Ра           | Ĕ          | GRO                   | oride          |         |       |        |        |          |              |       |        |          | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> |          |                         | 60         |
| Sample Custody Seal  | s. Yes   | NO N/A                     | Temperature Re                        |                       | ,¥          | 2.3           |              | 6          | 5M (                  | Chi            |         |       |        |        |          |              |       |        |          | Zn Aceta                                      | -        | l Zn                    | C + C      |
| Total Containers.    | L  |                            | Corrected Temp                        | erature.              | 1-6         | ).            |              |            | TPH 8015M ( GRO + DRO |                |         |       |        |        |          |              |       |        |          |   |          | cid. SAPC               | ,          |
| Sample Iden          |  | Date                       | Time                                  | Soil                  | Water       | Grab/<br>Comp | # of<br>Cont |            | đ                     |                |         |       |        |        |          |              |       |        |          | Sa  | mple Co  | omments                 |            |
| S-1 (0-1             |  | 11/20/2023                 |                                       | Х                     |             | G             | 1            | X          | Х                     | Х              |         |       |        |        |          |              |       |        |          |   |          |                         | là         |
| S-1 (1.              | -  | 11/20/2023                 |                                       | Х                     |             | G             | 1            | Х          | Х                     | Х              |         |       |        |        |          |              |       |        |          |   |          |                         |            |
| S-1 (2.              |  | 11/20/2023                 |                                       | X                     |             | G             | 1            | Х          | Х                     | Х              |         |       |        |        |          |              |       |        |          |   |          |                         | -          |
| S-1 (3.              |  | 11/20/2023                 |                                       | X                     |             | G             | 1            | Х          | Х                     | Х              |         |       |        |        |          |              |       |        |          |   |          |                         |            |
| S-1 (4.              | .0')   | 11/20/2023                 | · · · · · · · · · · · · · · · · · · · | X                     |             | G             | 1            | Х          | X                     | Х              |         |       |        |        |          |              |       |        |          |   |          |                         |            |
|                      |  |                            |                                       |                       |             |               |              |            |                       |                |         |       |        |        |          |              |       |        |          |   |          |                         |            |
|                      |  |                            |                                       |                       |             |               |              |            |                       |                |         |       |        |        |          |              |       |        |          |   |          |                         |            |
|                      |  |                            |                                       |                       | <u> </u>    |               |              |            |                       |                | -       |       |        |        | _        |              |       |        |          |   |          |                         |            |
|                      |  |                            |                                       |                       |             |               |              |            |                       |                |         |       |        |        |          |              |       |        |          |   |          |                         |            |
| Commontes Euren      | to Miles Ann                                   |                            |                                       | L                     | L           | L             | L            |            |                       |                |         |       |        |        | 1        |              |       |        |          |   | ·····    |                         |            |
| Comments: Email      | lo mike CarM(                                  | JIIA / WCAFMO              | na@carmonar                           | esources.com          | 1 and Co    | nner Mo       | behring      | Cmo        | ehrin                 | g@ca           | rmonare | sourc | es.cor | n      |          |              |       |        |          |   |          |                         |            |
|                      | E  | elinguished h              | y' (Signature)                        |                       |             |               |              | D-4 7      | ~.                    |                |         |       |        |        |          |              |       | -      |          |   | 1        |                         |            |
|                      | <u>r</u>                                       |                            |                                       |                       |             |               |              | Date/1     | ime                   |                |         |       |        | Rec    | eived b  | y (Sig       | natur | e)     |          |   | D        | ate/Time                |            |
|                      |  | - Manufacture and a second |                                       |                       |             |               | 1.           | <u> </u>   | ~~                    |                |         |       | /      |        | <u> </u> |              |       | $\leq$ | -        |   |          |                         |            |
|                      | <u>ANNE ANNE ANNE ANNE ANNE ANNE ANNE ANNE</u> |                            |                                       |                       |             |               |              | 3/-,       | 43                    |                |         |       |        | $\leq$ | $\leq$   |              |       |        |          |   |          |                         |            |
| <u> </u>             | / //   |                            |                                       |                       |             |               |              | 10         | 0)                    |                |         |       |        |        |          |              |       |        |          |   | <u> </u> |                         |            |

13

IJ

•

Job Number: 880-36054-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

### Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 36054 List Number: 1

<6mm (1/4").

Creator: Rodriguez, Leticia

| 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               | N/A    |         |



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Conner Moehring Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 11/28/2023 9:05:53 AM

## JOB DESCRIPTION

Lusk Deep Unit 028H (10.24.23) Lea County, New Mexico

## **JOB NUMBER**

880-36053-1

RT OR nring rces III St 500 9701

Eurofins Midland 1211 W. Florida Ave Midland TX 79701



## **Eurofins Midland**

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

### Authorization

AMER

Generated 11/28/2023 9:05:53 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440 Generated

Page 60 of 133

# **Table of Contents**

| Cover Page             | 1  |
|------------------------|----|
| Table of Contents      | 3  |
| Definitions/Glossary   | 4  |
| Case Narrative         | 5  |
| Client Sample Results  | 6  |
| Surrogate Summary      | 9  |
| QC Sample Results      | 10 |
| QC Association Summary | 14 |
| Lab Chronicle          | 16 |
| Certification Summary  | 18 |
| Method Summary         | 19 |
| Sample Summary         | 20 |
| Chain of Custody       | 21 |
| Receipt Checklists     | 22 |
|                        |    |

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36053-1 SDG: Lea County, New Mexico

### Qualifiers

| Quaimers     |  | 3   |
|--------------|--|-----|
| GC VOA       |  |     |
| Qualifier    | Qualifier Description  |     |
| S1+          | Surrogate recovery exceeds control limits, high biased.                                    |     |
| U            | Indicates the analyte was analyzed for but not detected.                                   | 5   |
| GC Semi VO   | Α  |     |
| 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, high biased.                                    |     |
| U            | Indicates the analyte was analyzed for but not detected.                                   | 8   |
| HPLC/IC      |  |     |
| Qualifier    | Qualifier Description  | 9   |
| 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  | 4.0 |
| CNF          | Contains No Free Liquid  | 13  |
| DER          | Duplicate Error Patia (normalized absolute difference)                                     |     |

| -              | 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)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36053-1 SDG: Lea County, New Mexico

### Job ID: 880-36053-1

### Laboratory: Eurofins Midland

### Narrative

Job Narrative 880-36053-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 11/21/2023 10:01 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 -6.1°C

### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-36053-1), H-2 (0-0.5') (880-36053-2), H-3 (0-0.5') (880-36053-3) and H-4 (0-0.5') (880-36053-4).

### GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67438 and 880-67580 and analytical batch 880-67556 was outside the upper control 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 surrogate recovery for the blank associated with preparation batch 880-67569 and analytical batch 880-67601 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-36053-1), H-2 (0-0.5') (880-36053-2), H-3 (0-0.5') (880-36053-3), H-4 (0-0.5') (880-36053-4), (820-10978-A-16-D), (820-10978-A-16-E MS) and (820-10978-A-16-F MSD). 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 880-67569 and analytical batch 880-67601 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.

### HPLC/IC

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: Lusk Deep Unit 028H (10.24.23)

### Client Sample ID: H-1 (0-0.5') Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

|  |  |  | _ |  |
|--|--|--|---|--|
|  |  |  |   |  |
|  |  |  |   |  |
|  |  |  |   |  |
|  |  |  |   |  |
|  |  |  |   |  |
|  |  |  |   |  |
|  |  |  |   |  |

Job ID: 880-36053-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-36053-1

Matrix: Solid

5

| Analyte   | Result        | Qualifier               | RL                 | MDL | Unit           | D | Prepared                         | Analyzed                         | Dil Fa   |
|---|---------------|-------------------------|--------------------|-----|----------------|---|----------------------------------|----------------------------------|----------|
| Benzene   | <0.00198      | U                       | 0.00198            |     | mg/Kg          |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| Toluene   | <0.00198      | U                       | 0.00198            |     | mg/Kg          |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| Ethylbenzene  | <0.00198      | U                       | 0.00198            |     | mg/Kg          |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| m-Xylene & p-Xylene   | <0.00396      | U                       | 0.00396            |     | mg/Kg          |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| o-Xylene  | <0.00198      | U                       | 0.00198            |     | mg/Kg          |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| Xylenes, Total  | <0.00396      | U                       | 0.00396            |     | mg/Kg          |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| Surrogate   | %Recovery     | Qualifier               | Limits             |     |                |   | Prepared                         | Analyzed                         | Dil Fa   |
| 4-Bromofluorobenzene (Surr)                                       | 108           |                         | 70 - 130           |     |                |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| 1,4-Difluorobenzene (Surr)  | 116           |                         | 70 - 130           |     |                |   | 11/21/23 14:52                   | 11/22/23 10:54                   |          |
| Method: TAL SOP Total BTEX - To                                   | otal BTEX Cal | culation                |                    |     |                |   |                                  |                                  |          |
| Analyte   | Result        | Qualifier               | RL                 | MDL | Unit           | D | Prepared                         | Analyzed                         | Dil Fa   |
| Total BTEX  | <0.00396      | U                       | 0.00396            |     | mg/Kg          |   |                                  | 11/22/23 10:54                   |          |
| Method: SW846 8015 NM - Diesel                                    | Range Organ   | ics (DRO) (             | GC)                |     |                |   |                                  |                                  |          |
| Analyte   | Result        | Qualifier               | RL                 | MDL | Unit           | D | Prepared                         | Analyzed                         | Dil Fa   |
| Total TPH   | <49.9         | U                       | 49.9               |     | mg/Kg          |   |                                  | 11/22/23 14:38                   |          |
| Method: SW846 8015B NM - Dies                                     | el Range Orga | nics (DRO)              | (GC)               |     |                |   |                                  |                                  |          |
| Analyte   | Result        | Qualifier               | RL                 | MDL | Unit           | D | Prepared                         | Analyzed                         | Dil Fa   |
| Gasoline Range Organics   | <49.9         | U                       | 49.9               |     | mg/Kg          |   | 11/21/23 14:44                   | 11/22/23 14:38                   |          |
| (GRO)-C6-C10  |               |                         |                    |     |                |   |                                  |                                  |          |
| Diesel Range Organics (Over                                       | <49.9         | U                       | 49.9               |     | mg/Kg          |   | 11/21/23 14:44                   | 11/22/23 14:38                   |          |
| C10-C28)<br>Oll Range Organics (Over C28-C36)                     | <49.9         | U                       | 49.9               |     | mg/Kg          |   | 11/21/23 14:44                   | 11/22/23 14:38                   |          |
| Surrogate   | %Recovery     | Qualifier               | Limits             |     |                |   | Prepared                         | Analyzed                         | Dil Fa   |
| 1-Chlorooctane  | 133           | S1+                     | 70 - 130           |     |                |   | 11/21/23 14:44                   | 11/22/23 14:38                   |          |
| o-Terphenyl   | 111           |                         | 70 - 130           |     |                |   | 11/21/23 14:44                   | 11/22/23 14:38                   |          |
| Method: EPA 300.0 - Anions, Ion                                   | Chromatograp  | ohy - Solubl            | e                  |     |                |   |                                  |                                  |          |
| Analyte   |               | Qualifier               | RL                 | MDL | Unit           | D | Prepared                         | Analyzed                         | Dil Fa   |
| Chloride  | 374           |                         | 4.96               |     | mg/Kg          |   |                                  | 11/27/23 14:01                   |          |
| lient Sample ID: H-2 (0-0.5'                                      | )             |                         |                    |     |                |   | Lab Sam                          | ple ID: 880-3                    | 6053-2   |
| ate Collected: 11/20/23 00:00                                     |               |                         |                    |     |                |   |                                  | Matri                            | x: Solie |
| ate Received: 11/21/23 10:01                                      |               |                         |                    |     |                |   |                                  |                                  |          |
| Method: SW846 8021B - Volatile (                                  | • •           | OUNDS (GC)<br>Qualifier | )<br>RL            | MDI | Unit           | D | Branarad                         | Analyzad                         | Dil Fa   |
| Analyte<br>Benzene  | <0.00198      |                         | 0.00198            | MDL |                |   | Prepared<br>11/21/23 14:52       | Analyzed<br>11/22/23 11:15       |          |
| Foluene   | <0.00198      |                         |                    |     | mg/Kg          |   | 11/21/23 14:52                   |                                  |          |
|   | <0.00198      |                         | 0.00198<br>0.00198 |     | mg/Kg<br>mg/Kg |   | 11/21/23 14:52<br>11/21/23 14:52 | 11/22/23 11:15<br>11/22/23 11:15 |          |
|   |               | 1.1                     | 0.00198            |     | 100/60         |   | 11/21/23 14:52                   | 11/2/23 11:15                    |          |
|   |               |                         |                    |     |                |   |                                  |                                  |          |
| m-Xylene & p-Xylene   | <0.00396      | U                       | 0.00396            |     | mg/Kg          |   | 11/21/23 14:52                   | 11/22/23 11:15                   |          |
| Ethylbenzene<br>m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total |               | U<br>U                  |                    |     |                |   |                                  |                                  |          |

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed

 4-Bromofluorobenzene (Surr)
 105
 70 - 130
 11/21/23 14:52
 11/22/23 11:15

 1,4-Difluorobenzene (Surr)
 114
 70 - 130
 11/21/23 14:52
 11/22/23 11:15

Eurofins Midland

Dil Fac

1

### **Client Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1 SDG: Lea County, New Mexico

### Client Sample ID: H-2 (0-0.5') Date Collected: 11/20/23 00:00

Date Received: 11/21/23 10:01

| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00396      | U           | 0.00396  |     | mg/Kg |   |                | 11/22/23 11:15 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organ   | ics (DRO) ( | GC)      |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <49.7         | U           | 49.7     |     | mg/Kg |   |                | 11/22/23 15:01 |         |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fa  |
| Gasoline Range Organics           | <49.7         | U           | 49.7     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 15:01 |         |
| (GRO)-C6-C10                      |               |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.7         | U           | 49.7     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 15:01 |         |
| C10-C28)                          |               |             |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <49.7         | U           | 49.7     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 15:01 |         |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fa  |
| 1-Chlorooctane                    | 152           | S1+         | 70 - 130 |     |       |   | 11/21/23 14:44 | 11/22/23 15:01 |         |
| o-Terphenyl                       | 129           |             | 70 - 130 |     |       |   | 11/21/23 14:44 | 11/22/23 15:01 |         |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fa  |
| Chloride                          | 134           |             | 5.00     |     | mg/Kg |   |                | 11/27/23 14:07 |         |

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

Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

### Lab Sample ID: 880-36053-3 Matrix: Solid

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 |     |       |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 |     |       |   | 11/21/23 14:52 | 11/22/23 11:35 | 1       |

### Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier MDL Unit RL D Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 mg/Kg 11/22/23 11:35 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total TPH <49.6 U 11/22/23 15:45 49.6 mg/Kg 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                     | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics     | <49.6  | U         | 49.6 |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 15:45 | 1       |
| (GRO)-C6-C10                |        |           |      |     |       |   |                |                |         |
| Diesel Range Organics (Over | <49.6  | U         | 49.6 |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 15:45 | 1       |
| C10-C28)                    |        |           |      |     |       |   |                |                |         |

**Eurofins Midland** 

Lab Sample ID: 880-36053-2 Matrix: Solid

### Client Sample ID: H-3 (0-0.5') Date Collected: 11/20/23 00:00

Date Received: 11/21/23 10:07

| Analyte  |   | Qualifier   | (GC) (Continue<br>RL   | MDL | Unit                            | D        | Prepared  | Analyzed  | Dil Fa   |
|--|---|---|--|-----|---------------------------------|----------|---|---|----------|
| Oll Range Organics (Over C28-C36)  | <49.6   |   | 49.6   |     | mg/Kg                           |          | 11/21/23 14:44  | 11/22/23 15:45  |          |
| Surrogate  | %Recovery   | Qualifier   | Limits   |     |                                 |          | Prepared  | Analyzed  | Dil Fa   |
| 1-Chlorooctane   |   | S1+   | 70 - 130   |     |                                 |          | 11/21/23 14:44  | 11/22/23 15:45  |          |
| o-Terphenyl  | 126   |   | 70 - 130   |     |                                 |          | 11/21/23 14:44  | 11/22/23 15:45  |          |
| Method: EPA 300.0 - Anions, Ion  | Chromatograp  | hy - Solubl                                       | e  |     |                                 |          |   |   |          |
| Analyte  | Result  | Qualifier   | RL   | MDL | Unit                            | D        | Prepared  | Analyzed  | Dil Fa   |
| Chloride   | 204   |   | 5.03   |     | mg/Kg                           |          |   | 11/27/23 14:12  |          |
| lient Sample ID: H-4 (0-0.5  | ')  |   |  |     |                                 |          | Lab Sam   | ple ID: 880-3   | 6053-4   |
| ate Collected: 11/20/23 00:00  | ,   |   |  |     |                                 |          |   | •   | x: Solie |
| Date Received: 11/21/23 10:01  |   |   |  |     |                                 |          |   |   |          |
| Mathadi CW04C 0004D - Valatila   | Ormania Comp  |   |  |     |                                 |          |   |   |          |
| Method: SW846 8021B - Volatile<br>Analyte  |   | Qualifier   | )<br>RL  | MDL | Unit                            | D        | Prepared  | Analyzed  | Dil Fa   |
| Benzene  | <0.00200  | U   | 0.00200  |     | mg/Kg                           |          | 11/21/23 14:52  | 11/22/23 11:55  |          |
| Toluene  | <0.00200  | U   | 0.00200  |     | mg/Kg                           |          | 11/21/23 14:52  | 11/22/23 11:55  |          |
|  |   |   |  |     | mg/Kg                           |          | 11/21/23 14:52  | 11/22/23 11:55  |          |
| Ethylbenzene   | <0.00200  | U   | 0.00200  |     |                                 |          | 11/21/20 14.02  | 11/22/23 11:55  |          |
| Ethylbenzene<br>m-Xylene & p-Xylene  | <0.00200<br><0.00401  |   | 0.00200<br>0.00401   |     | mg/Kg                           |          | 11/21/23 14:52  | 11/22/23 11:55  |          |
| m-Xylene & p-Xylene  |   | U   |  |     |                                 |          |   |   |          |
| m-Xylene & p-Xylene<br>o-Xylene  | <0.00401  | U<br>U  | 0.00401  |     | mg/Kg                           |          | 11/21/23 14:52  | 11/22/23 11:55  |          |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total  | <0.00401<br><0.00200  | U<br>U<br>U                                       | 0.00401<br>0.00200   |     | mg/Kg<br>mg/Kg                  |          | 11/21/23 14:52<br>11/21/23 14:52  | 11/22/23 11:55<br>11/22/23 11:55  |          |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total<br><b>Surrogate</b>  | <0.00401<br><0.00200<br><0.00401  | U<br>U<br>U                                       | 0.00401<br>0.00200<br>0.00401  |     | mg/Kg<br>mg/Kg                  |          | 11/21/23 14:52<br>11/21/23 14:52<br>11/21/23 14:52  | 11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55  | Dil Fa   |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total<br><b>Surrogate</b>  | <0.00401<br><0.00200<br><0.00401<br><b>%Recovery</b>  | U<br>U<br>U                                       | 0.00401<br>0.00200<br>0.00401<br><i>Limits</i>   |     | mg/Kg<br>mg/Kg                  |          | 11/21/23 14:52<br>11/21/23 14:52<br>11/21/23 14:52<br><b>Prepared</b>                                     | 11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55<br><b>Analyzed</b>   | Dil Fa   |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total<br>Surrogate<br>4-Bromofluorobenzene (Surr)  | <0.00401<br><0.00200<br><0.00401<br><b>%Recovery</b><br>105<br>113  | U<br>U<br>U<br>Qualifier                          | 0.00401<br>0.00200<br>0.00401<br><u>Limits</u><br>70 - 130                                     |     | mg/Kg<br>mg/Kg                  |          | 11/21/23 14:52<br>11/21/23 14:52<br>11/21/23 14:52<br><b>Prepared</b><br>11/21/23 14:52                   | 11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55<br><b>Analyzed</b><br>11/22/23 11:55                                     | Dil Fa   |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total<br>Surrogate<br>4-Bromofluorobenzene (Surr)<br>1,4-Difluorobenzene (Surr)  | <0.00401<br><0.00200<br><0.00401<br><i>%Recovery</i><br>105<br>113  | U<br>U<br>U<br>Qualifier                          | 0.00401<br>0.00200<br>0.00401<br><u>Limits</u><br>70 - 130                                     | MDL | mg/Kg<br>mg/Kg                  | D        | 11/21/23 14:52<br>11/21/23 14:52<br>11/21/23 14:52<br><b>Prepared</b><br>11/21/23 14:52                   | 11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55<br><b>Analyzed</b><br>11/22/23 11:55                                     | Dil Fa   |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total<br><u>Surrogate</u><br>4-Bromofluorobenzene (Surr)<br>1,4-Difluorobenzene (Surr)<br>Method: TAL SOP Total BTEX - T                   | <0.00401<br><0.00200<br><0.00401<br><i>%Recovery</i><br>105<br>113  | U<br>U<br>Qualifier                               | 0.00401<br>0.00200<br>0.00401<br><u>Limits</u><br>70 - 130<br>70 - 130                         | MDL | mg/Kg<br>mg/Kg<br>mg/Kg         | <u>D</u> | 11/21/23 14:52<br>11/21/23 14:52<br>11/21/23 14:52<br><b>Prepared</b><br>11/21/23 14:52<br>11/21/23 14:52 | 11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55<br><b>Analyzed</b><br>11/22/23 11:55<br>11/22/23 11:55                   | Dil Fa   |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total<br>Surrogate<br>4-Bromofluorobenzene (Surr)<br>1,4-Difluorobenzene (Surr)<br>Method: TAL SOP Total BTEX - T<br>Analyte               | <0.00401<br><0.00200<br><0.00401<br>// <i>%Recovery</i><br>105<br>113<br>// fotal BTEX Calc<br>Result<br><0.00401 | U<br>U<br>Qualifier<br>Culation<br>Qualifier<br>U | 0.00401<br>0.00200<br>0.00401<br><u>Limits</u><br>70 - 130<br>70 - 130<br><u>RL</u><br>0.00401 | MDL | mg/Kg<br>mg/Kg<br>mg/Kg<br>Unit | <u>D</u> | 11/21/23 14:52<br>11/21/23 14:52<br>11/21/23 14:52<br><b>Prepared</b><br>11/21/23 14:52<br>11/21/23 14:52 | 11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55<br><b>Analyzed</b><br>11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55 | Dil Fa   |
| m-Xylene & p-Xylene<br>o-Xylene<br>Xylenes, Total<br>Surrogate<br>4-Bromofluorobenzene (Surr)<br>1,4-Difluorobenzene (Surr)<br>Method: TAL SOP Total BTEX - T<br>Analyte<br>Total BTEX | <0.00401<br><0.00200<br><0.00401<br>/// <i>Recovery</i><br>105<br>113<br>// Total BTEX Cald<br>Result<br><0.00401 | U<br>U<br>Qualifier<br>Culation<br>Qualifier<br>U | 0.00401<br>0.00200<br>0.00401<br><u>Limits</u><br>70 - 130<br>70 - 130<br><u>RL</u><br>0.00401 |     | mg/Kg<br>mg/Kg<br>mg/Kg<br>Unit | <u>D</u> | 11/21/23 14:52<br>11/21/23 14:52<br>11/21/23 14:52<br><b>Prepared</b><br>11/21/23 14:52<br>11/21/23 14:52 | 11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55<br><b>Analyzed</b><br>11/22/23 11:55<br>11/22/23 11:55<br>11/22/23 11:55 | Dil Fa   |

| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <50.0        | U           | 50.0     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 16:07 | 1       |
| (GRO)-C6-C10                      |              |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.0        | U           | 50.0     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 16:07 | 1       |
| C10-C28)                          |              |             |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.0        | U           | 50.0     |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 16:07 | 1       |
| Surrogate                         | %Recovery    | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 148          | S1+         | 70 - 130 |     |       |   | 11/21/23 14:44 | 11/22/23 16:07 | 1       |
| o-Terphenyl                       | 128          |             | 70 - 130 |     |       |   | 11/21/23 14:44 | 11/22/23 16:07 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 44.4         |             | 5.04     |     | mg/Kg |   |                | 11/27/23 14:30 | 1       |

Job ID: 880-36053-1

Matrix: Solid

5

SDG: Lea County, New Mexico

Lab Sample ID: 880-36053-3

### **Surrogate Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

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

| -                    |                        |          |          |
|----------------------|------------------------|----------|----------|
|                      |                        | BFB1     | DFBZ1    |
| Lab Sample ID        | Client Sample ID       | (70-130) | (70-130) |
| 880-35979-A-31-F MS  | Matrix Spike           | 104      | 101      |
| 880-35979-A-31-G MSD | Matrix Spike Duplicate | 99       | 107      |
| 880-36053-1          | H-1 (0-0.5')           | 108      | 116      |
| 880-36053-2          | H-2 (0-0.5')           | 105      | 114      |
| 880-36053-3          | H-3 (0-0.5')           | 101      | 106      |
| 880-36053-4          | H-4 (0-0.5')           | 105      | 113      |
| LCS 880-67580/1-A    | Lab Control Sample     | 89       | 100      |
| LCSD 880-67580/2-A   | Lab Control Sample Dup | 92       | 108      |
| MB 880-67438/5-A     | Method Blank           | 117      | 149 S1+  |
| MB 880-67580/5-A     | Method Blank           | 107      | 141 S1+  |
| Surrogate Legend     |                        |          |          |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

|--|

|                      |                        |          |          | Percent Surrogate Recovery (Accept |
|----------------------|------------------------|----------|----------|------------------------------------|
|                      |                        | 1CO1     | OTPH1    |                                    |
| Lab Sample ID        | Client Sample ID       | (70-130) | (70-130) |                                    |
| 20-10978-A-16-E MS   | Matrix Spike           | 146 S1+  | 113      |                                    |
| 320-10978-A-16-F MSD | Matrix Spike Duplicate | 133 S1+  | 102      |                                    |
| 80-36053-1           | H-1 (0-0.5')           | 133 S1+  | 111      |                                    |
| 880-36053-2          | H-2 (0-0.5')           | 152 S1+  | 129      |                                    |
| 380-36053-3          | H-3 (0-0.5')           | 151 S1+  | 126      |                                    |
| 380-36053-4          | H-4 (0-0.5')           | 148 S1+  | 128      |                                    |
| CS 880-67569/2-A     | Lab Control Sample     | 88       | 94       |                                    |
| LCSD 880-67569/3-A   | Lab Control Sample Dup | 104      | 108      |                                    |
| MB 880-67569/1-A     | Method Blank           | 154 S1+  | 141 S1+  |                                    |

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

5 6

Prep Type: Total/NA

Prep Type: Total/NA

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

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

|                                      | 4        |             |                 |         |     |        |       |     |       | Client Sa  | ample ID: Me  | thod  | Blank        |
|--------------------------------------|----------|-------------|-----------------|---------|-----|--------|-------|-----|-------|------------|---------------|-------|--------------|
| Matrix: Solid                        |          |             |                 |         |     |        |       |     |       |            | Ргер Тур      | e: To | tal/NA       |
| Analysis Batch: 67556                |          |             |                 |         |     |        |       |     |       |            | Prep Ba       | atch: | <b>67438</b> |
|                                      | M        | 3 MB        |                 |         |     |        |       |     |       |            |               |       |              |
| Analyte                              | Resu     | t Qualifier | RL              | ·       | MDL | Unit   |       | D   | P     | repared    | Analyzed      |       | Dil Fac      |
| Benzene                              | <0.00200 | D U         | 0.00200         | )       |     | mg/Kg  |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
| Toluene                              | <0.0020  | U U         | 0.00200         | )       |     | mg/Kg  |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
| Ethylbenzene                         | <0.0020  | ) U         | 0.00200         | )       |     | mg/Kg  |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
| m-Xylene & p-Xylene                  | <0.0040  | U U         | 0.00400         | )       |     | mg/Kg  |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
| o-Xylene                             | <0.0020  | U U         | 0.00200         | )       |     | mg/Kg  |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
| Xylenes, Total                       | <0.0040  | U U         | 0.00400         | )       |     | mg/Kg  |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
|                                      | М        | 3 <i>MB</i> |                 |         |     |        |       |     |       |            |               |       |              |
| Surrogate                            | %Recover | Qualifier   | Limits          | _       |     |        |       |     | P     | repared    | Analyzed      |       | Dil Fac      |
| 4-Bromofluorobenzene (Surr)          | 11       | 7           | 70 - 130        |         |     |        |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
| 1,4-Difluorobenzene (Surr)           | 14       | 9 S1+       | 70 - 130        |         |     |        |       |     | 11/2  | 0/23 14:09 | 11/21/23 16:  | 10    | 1            |
| _<br>Lab Sample ID: MB 880-67580/5-/ | 4        |             |                 |         |     |        |       |     |       | Client Sa  | ample ID: Me  | thod  | Blank        |
| Matrix: Solid                        |          |             |                 |         |     |        |       |     |       |            | Prep Typ      | e: To | tal/NA       |
| Analysis Batch: 67556                |          |             |                 |         |     |        |       |     |       |            | Prep Ba       | atch: | 67580        |
| -                                    | М        | з мв        |                 |         |     |        |       |     |       |            |               |       |              |
| Analyte                              | Resu     | t Qualifier | RL              |         | MDL | Unit   |       | D   | Р     | repared    | Analyzed      |       | Dil Fac      |
| Benzene                              | <0.0020  | D U         | 0.00200         | )       |     | mg/Kg  |       | _   | 11/2  | 1/23 14:52 | 11/22/23 03:4 | 19    | 1            |
| Toluene                              | <0.00200 | D U         | 0.00200         | )       |     | mg/Kg  |       |     | 11/2  | 1/23 14:52 | 11/22/23 03:4 | 19    | 1            |
| Ethylbenzene                         | <0.0020  | U U         | 0.00200         | )       |     | mg/Kg  |       |     | 11/2  | 1/23 14:52 | 11/22/23 03:4 | 19    | 1            |
| m-Xylene & p-Xylene                  | <0.0040  | ) U         | 0.00400         |         |     | mg/Kg  |       |     | 11/2  | 1/23 14:52 | 11/22/23 03:4 | 19    | 1            |
| o-Xylene                             | <0.0020  |             | 0.00200         | )       |     | mg/Kg  |       |     | 11/2  | 1/23 14:52 | 11/22/23 03:4 |       | 1            |
| Xylenes, Total                       | <0.0040  |             | 0.00400         |         |     | mg/Kg  |       |     |       | 1/23 14:52 | 11/22/23 03:4 |       | 1            |
|                                      | М        | 3 <i>MB</i> |                 |         |     |        |       |     |       |            |               |       |              |
| Surrogate                            | %Recover |             | Limits          |         |     |        |       |     |       | repared    | Analyzed      |       | Dil Fac      |
| 4-Bromofluorobenzene (Surr)          |          | ·           | 70 - 130        | -       |     |        |       |     |       | 1/23 14:52 | 11/22/23 03:4 | 49    | 1            |
| 1,4-Difluorobenzene (Surr)           |          | ,<br>1 S1+  | 70 <u>-</u> 130 |         |     |        |       |     |       | 1/23 14:52 | 11/22/23 03:  |       | 1            |
|                                      |          |             |                 |         |     |        |       |     |       |            |               |       |              |
| Lab Sample ID: LCS 880-67580/1-      | -A       |             |                 |         |     |        |       | C   | lient | Sample     | ID: Lab Cont  |       |              |
| Matrix: Solid                        |          |             |                 |         |     |        |       |     |       |            | Prep Typ      |       |              |
| Analysis Batch: 67556                |          |             | <b>.</b>        |         |     |        |       |     |       |            | Prep Ba       | atcn: | 67580        |
| • • •                                |          |             | Spike           |         | LCS |        |       |     | _     |            | %Rec          |       |              |
| Analyte                              |          |             | Added           | Result  | Qua | lifier | Unit  |     |       | %Rec       | Limits        |       |              |
| Benzene                              |          |             | 0.100           | 0.1041  |     |        | mg/Kg |     |       | 104        | 70 - 130      |       |              |
|                                      |          |             | 0.100           | 0.09065 |     |        | mg/Kg |     |       | 91         | 70 - 130      |       |              |
| Ethylbenzene                         |          |             | 0.100           | 0.08656 |     |        | mg/Kg |     |       | 87         | 70 - 130      |       |              |
| m-Xylene & p-Xylene                  |          |             | 0.200           | 0.1921  |     |        | mg/Kg |     |       | 96         | 70 - 130      |       |              |
| o-Xylene                             |          |             | 0.100           | 0.09395 |     |        | mg/Kg |     |       | 94         | 70 - 130      |       |              |
| 0                                    | LCS LC   |             | 1               |         |     |        |       |     |       |            |               |       |              |
|                                      |          | alifier     | Limits          |         |     |        |       |     |       |            |               |       |              |
| 4-Bromofluorobenzene (Surr)          | 89       |             | 70 - 130        |         |     |        |       |     |       |            |               |       |              |
| 1,4-Difluorobenzene (Surr)           | 100      |             | 70 - 130        |         |     |        |       |     |       |            |               |       |              |
| Lab Sample ID: LCSD 880-67580/       | 2-A      |             |                 |         |     |        | Cli   | ent | Sam   | ple ID: L  | ab Control S  | ampl  | le Dup       |
| Matrix: Solid                        |          |             |                 |         |     |        |       |     |       | -          | Prep Typ      |       |              |
| Analysis Batch: 67556                |          |             |                 |         |     |        |       |     |       |            | Prep Ba       |       |              |
| -                                    |          |             | Spike           | LCSD    | LCS | D      |       |     |       |            | %Rec          |       | RPD          |
| Analyte                              |          |             | Added           | Result  | Qua | lifier | Unit  |     | D     | %Rec       | Limits        | RPD   | Limit        |
|                                      |          |             | 0.400           | 0.4400  |     |        |       |     |       |            | 70 400        | 10    |              |

Eurofins Midland

35

13

5

Job ID: 880-36053-1

SDG: Lea County, New Mexico

Released to Imaging: 4/1/2024 7:45:25 AM

Benzene

0.1186

mg/Kg

119

70 - 130

0.100

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36053-1 SDG: Lea County, New Mexico

Page 68 of 133

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

| Lab Sample ID: LCSD 880-6  | 7580/2-A   |  |   |   |                 | Clie                             | nt San   | nple ID: I                            | Lab Contro   |                       |        |
|--|--|--|---|---|-----------------|----------------------------------|----------|---------------------------------------|--|-----------------------|--------|
| Matrix: Solid  |  |  |   |   |                 |                                  |          |                                       |  | ype: To               |        |
| Analysis Batch: 67556  |  |  | 0   | 1.000   | 1.000           |                                  |          |                                       |  | Batch:                |        |
| A  |  |  | Spike<br>Added  |   | LCSD            | 11                               | _        | 0/ <b>D</b> = =                       | %Rec<br>Limits   |                       | RPD    |
| Analyte  |  |  |   | 0.09170   | Qualifier       | Unit                             | D        | %Rec                                  | 70 - 130   | RPD                   | Limit  |
| Toluene  |  |  |   |   |                 | mg/Kg                            |          | 92                                    |  | 1                     | 35     |
| Ethylbenzene   |  |  | 0.100   | 0.08494   |                 | mg/Kg                            |          | 85                                    | 70 - 130   | 2                     | 35     |
| m-Xylene & p-Xylene  |  |  | 0.200   | 0.1824  |                 | mg/Kg                            |          | 91                                    | 70 - 130   | 5                     | 35     |
| o-Xylene   |  |  | 0.100   | 0.08874   |                 | mg/Kg                            |          | 89                                    | 70 - 130   | 6                     | 35     |
|  | LCSD   | LCSD                                     |   |   |                 |                                  |          |                                       |  |                       |        |
| Surrogate  | %Recovery  | Qualifier                                | Limits  |   |                 |                                  |          |                                       |  |                       |        |
| 1  | 92   |  | 70 - 130  |   |                 |                                  |          |                                       |  |                       |        |
| 4-Bromofluorobenzene (Surr)  | 01   |  |   |   |                 |                                  |          |                                       |  |                       |        |
| 4-Bromonuorobenzene (Surr)<br>1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid  | 108  |  | 70 - 130  |   |                 |                                  |          | Client                                | Sample ID<br>Prep T  | : Matrix<br>Type: Tot | - C    |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-A   | 108<br><b>A-31-F MS</b>  | Samala                                   | 70 - 130  | МС  | MS              |                                  |          | Client                                | Prep T<br>Prep   |                       | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid<br>Analysis Batch: 67556   | 108<br>A-31-F MS<br>Sample   | Sample<br>Qualifier                      | 70 - 130<br>Spike   |   | MS<br>Qualifier | Unit                             | Р        |                                       | Prep T<br>Prep<br>%Rec   | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-A<br>Matrix: Solid<br>Analysis Batch: 67556<br>Analyte  | 108<br>A-31-F MS<br>Sample<br>Result   | Qualifier                                | 70 - 130<br>Spike<br>Added  | Result  | MS<br>Qualifier | - Unit<br>ma/Ka                  | D        | %Rec                                  | Prep T<br>Prep<br>%Rec<br>Limits   | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid<br>Analysis Batch: 67556   | 108<br>A-31-F MS<br>Sample   | Qualifier                                | 70 - 130<br>Spike   |   |                 | mg/Kg                            | <u>D</u> |                                       | Prep T<br>Prep<br>%Rec   | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-A<br>Matrix: Solid<br>Analysis Batch: 67556<br>Analyte<br>Benzene   | 108<br>A-31-F MS<br>Sample<br>   | Qualifier<br>U<br>U                      | 70 - 130<br>Spike<br>Added<br>0.0990  | <b>Result</b> 0.1069  |                 |                                  | <u>D</u> | <b>%Rec</b>                           | Prep T<br>Prep<br>%Rec<br>Limits<br>70 - 130   | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid<br>Analysis Batch: 67556<br>Analyte<br>Benzene<br>Toluene  | 108<br>A-31-F MS<br>   | <b>Qualifier</b><br>U<br>U<br>U          | <b>Spike</b><br>Added<br>0.0990<br>0.0990   | <b>Result</b><br>0.1069<br>0.08980                          |                 | mg/Kg<br>mg/Kg                   | D        | %Rec<br>108<br>91                     | Prep T<br>Prep<br>%Rec<br>Limits<br>70 - 130<br>70 - 130   | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid<br>Analysis Batch: 67556<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene                                    | 108<br>A-31-F MS<br>Sample<br>Result<br><0.00198<br><0.00198<br><0.00198                           | Qualifier<br>U<br>U<br>U<br>U            | <b>Spike</b><br>Added<br>0.0990<br>0.0990<br>0.0990   | Result           0.1069           0.08980           0.09199 |                 | mg/Kg<br>mg/Kg<br>mg/Kg          | <u> </u> | %Rec<br>108<br>91<br>93               | Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130                                       | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid<br>Analysis Batch: 67556<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>m-Xylene & p-Xylene             | 108<br>A-31-F MS<br>Sample<br>Result<br><0.00198<br><0.00198<br><0.00198<br><0.00396<br><0.00198   | Qualifier<br>U<br>U<br>U<br>U            | <b>Spike</b><br>Added<br>0.0990<br>0.0990<br>0.0990<br>0.198  | Result<br>0.1069<br>0.08980<br>0.09199<br>0.2092            |                 | mg/Kg<br>mg/Kg<br>mg/Kg<br>mg/Kg | <u>D</u> | <b>%Rec</b><br>108<br>91<br>93<br>106 | Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130 | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid<br>Analysis Batch: 67556<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>m-Xylene & p-Xylene             | 108<br>A-31-F MS<br>Sample<br>Result<br><0.00198<br><0.00198<br><0.00198<br><0.00396<br><0.00198   | Qualifier<br>U<br>U<br>U<br>U<br>U<br>MS | <b>Spike</b><br>Added<br>0.0990<br>0.0990<br>0.0990<br>0.198  | Result<br>0.1069<br>0.08980<br>0.09199<br>0.2092            |                 | mg/Kg<br>mg/Kg<br>mg/Kg<br>mg/Kg | <u> </u> | <b>%Rec</b><br>108<br>91<br>93<br>106 | Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130 | ype: To               | tal/NA |
| 1,4-Difluorobenzene (Surr)<br>Lab Sample ID: 880-35979-4<br>Matrix: Solid<br>Analysis Batch: 67556<br>Analyte<br>Benzene<br>Toluene<br>Ethylbenzene<br>m-Xylene & p-Xylene<br>o-Xylene | 108<br>A-31-F MS<br>Sample<br>Result<br><0.00198<br><0.00198<br><0.00396<br><0.00198<br><i>Sms</i> | Qualifier<br>U<br>U<br>U<br>U<br>U<br>MS | Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990 | Result<br>0.1069<br>0.08980<br>0.09199<br>0.2092            |                 | mg/Kg<br>mg/Kg<br>mg/Kg<br>mg/Kg | <u> </u> | <b>%Rec</b><br>108<br>91<br>93<br>106 | Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130 | ype: To               | tal/NA |

### Lab Sample ID: 880-35979-A-31-G MSD Matrix: Solid Analysis Batch: 67556

| Analysis Batch: 67556       |           |           |          |         |           |       |   |      | Prep     | Batch: | 67580 |
|-----------------------------|-----------|-----------|----------|---------|-----------|-------|---|------|----------|--------|-------|
|                             | Sample    | Sample    | Spike    | MSD     | MSD       |       |   |      | %Rec     |        | RPD   |
| Analyte                     | Result    | Qualifier | Added    | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD    | Limit |
| Benzene                     | <0.00198  | U         | 0.101    | 0.1174  |           | mg/Kg |   | 116  | 70 - 130 | 9      | 35    |
| Toluene                     | <0.00198  | U         | 0.101    | 0.09287 |           | mg/Kg |   | 92   | 70 - 130 | 3      | 35    |
| Ethylbenzene                | <0.00198  | U         | 0.101    | 0.09302 |           | mg/Kg |   | 92   | 70 - 130 | 1      | 35    |
| m-Xylene & p-Xylene         | < 0.00396 | U         | 0.202    | 0.1981  |           | mg/Kg |   | 98   | 70 - 130 | 5      | 35    |
| o-Xylene                    | <0.00198  | U         | 0.101    | 0.09592 |           | mg/Kg |   | 95   | 70 - 130 | 3      | 35    |
|                             | MSD       | MSD       |          |         |           |       |   |      |          |        |       |
| Surrogate                   | %Recovery | Qualifier | Limits   |         |           |       |   |      |          |        |       |
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 |         |           |       |   |      |          |        |       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 |         |           |       |   |      |          |        |       |

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

| Lab Sample ID: MB 880-67569/1-A<br>Matrix: Solid<br>Analysis Batch: 67601 | MB    | МВ        |      |     |       |   | Client Sa      | mple ID: Metho<br>Prep Type: <sup>-</sup><br>Prep Batcl | Total/NA |
|---|-------|-----------|------|-----|-------|---|----------------|---|----------|
| Analyte   |       | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed  | Dil Fac  |
| Gasoline Range Organics<br>(GRO)-C6-C10                                   | <50.0 | U         | 50.0 |     | mg/Kg |   | 11/21/23 14:44 | 11/22/23 08:19  | 1        |

PD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

Page 69 of 133

Dil Fac

Dil Fac

1

1

1

RPD

Limit

8

20

20

Job ID: 880-36053-1 SDG: Lea County, New Mexico

### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Lab Sample ID: MB 880-67569/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 67601 Prep Batch: 67569 MB MB **Result Qualifier** RL MDL Unit D Prepared Analyzed Analyte <50.0 U 50.0 11/21/23 14:44 11/22/23 08:19 **Diesel Range Organics (Over** mg/Kg C10-C28) 50.0 11/22/23 08:19 Oll Range Organics (Over C28-C36) <50.0 U 11/21/23 14:44 mg/Kg MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 154 S1+ 70 - 130 11/21/23 14:44 11/22/23 08:19 70 - 130 11/21/23 14:44 11/22/23 08:19 o-Terphenyl 141 S1+ Lab Sample ID: LCS 880-67569/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 67601 Prep Batch: 67569 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1035 103 70 - 130 mg/Kg (GRO)-C6-C10 1000 995.3 Diesel Range Organics (Over 100 70 - 130 mg/Kg C10-C28) LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 88 o-Terphenyl 94 70 - 130 Lab Sample ID: LCSD 880-67569/3-A **Client Sample ID: Lab Control Sample Dup** Matrix: Solid Prep Type: Total/NA Analysis Batch: 67601 Prep Batch: 67569 Spike LCSD LCSD %Rec Result Qualifier RPD Analyte Added Unit D %Rec Limits 1000 1049 105 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1074 mg/Kg 107 70 - 130 C10-C28) LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 108 70 - 130 Lab Sample ID: 820-10978-A-16-E MS **Client Sample ID: Matrix Spike** Matrix: Solid Prep Type: Total/NA Analysis Batch: 67601 Prep Batch: 67569 MS MS %Rec Sample Sample Spike Result Qualifier Added Qualifier Analyte Result Unit D %Rec Limits <50.1 U F2 Gasoline Range Organics 993 1110 108 70 - 130 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** <50.1 UF1 993 1339 F1 mg/Kg 132 70 - 130 C10-C28) MS MS Surrogate %Recovery Qualifier Limits S1+ 70 - 130 1-Chlorooctane 146 70 - 130 113 o-Terphenyl

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1 SDG: Lea County, New Mexico

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

| Lab Sample ID: 820-10978-A-<br>Matrix: Solid  |  |                     |   |  |   |                                | ient Sa |  | Prep 1   | Type: To  | tal/N4   |
|---|--|---------------------|---|--|---|--------------------------------|---------|--|--|---|--|
| Analysis Batch: 67601   |  |                     |   |  |   |                                |         |  |  | Batch:  |  |
|   | Sample   | Sample              | Spike   | MSD  | MSD   |                                |         |  | %Rec   |   | RPD  |
| Analyte   | -  | Qualifier           | Added   |  | Qualifier   | Unit                           | D       | %Rec   | Limits   | RPD   | Limi   |
| Gasoline Range Organics   | <50.1  |                     | 993   | 864.6  |   | mg/Kg                          |         | 83   | 70 - 130   | 25  | 2  |
| (GRO)-C6-C10  |  | 0.2                 |   | 00110  |   |                                |         |  | 10-100   | 20  | -  |
| Diesel Range Organics (Over<br>C10-C28)   | <50.1  | U F1                | 993   | 1200   |   | mg/Kg                          |         | 118  | 70 - 130   | 11  | 2  |
|   | MSD  | MSD                 |   |  |   |                                |         |  |  |   |  |
| Surrogate   | %Recovery  | Qualifier           | Limits  |  |   |                                |         |  |  |   |  |
| 1-Chlorooctane  | 133  | <u>S1+</u>          | 70 - 130  |  |   |                                |         |  |  |   |  |
| o-Terphenyl   | 102  |                     | 70 - 130  |  |   |                                |         |  |  |   |  |
| lethod: 300.0 - Anions, Io<br>Lab Sample ID: MB 880-67644<br>Matrix: Solid<br>Analysis Batch: 67733   |  | ography             |   |  |   |                                |         | Client S   | ample ID:<br>Prep  | Method<br>Type: So  |  |
|   |  | MB MB               |   |  |   |                                |         |  |  |   |  |
| Analyte   | Re   | esult Qualifier     |   | RL   | MDL Unit  |                                | ) P     | repared  | Analyz   | ed  | Dil Fa   |
| Chloride  | <  | 5.00 U              |   | 5.00   | mg/K  | g                              |         |  | 11/27/23   | 13:22   |  |
| Matrix: Solid   | 18/2-A   |                     |   |  |   |                                | Client  | Sample   | ID: Lab Co<br>Prep   | ontrol Sa<br>Type: So   |  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte   | 48/2-A<br>   |                     | Spike<br>Added<br>250                                   | Result   | LCS<br>Qualifier                                  | Unit                           | Client  | %Rec   | Prep<br>%Rec<br>Limits   |   |  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte   | 48/2-A<br>   |                     | -   |  |   |                                |         |  | Prep<br>%Rec   |   |  |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride   |  |                     | Added   | Result   |   | Unit<br>mg/Kg                  | D       | % <b>Rec</b><br>94   | Prep<br>%Rec<br>Limits   | Type: So  | olub   |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670  |  |                     | Added   | Result   |   | Unit<br>mg/Kg                  | D       | % <b>Rec</b><br>94   | Prep<br>%Rec<br>Limits<br>90 - 110   | Type: So  | e Du   |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid  |  |                     | Added   | Result   |   | Unit<br>mg/Kg                  | D       | % <b>Rec</b><br>94   | Prep<br>%Rec<br>Limits<br>90 - 110   | Type: So<br><br>ol Sampl  | e Du   |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-67<br>Matrix: Solid  |  |                     | Added   | Result<br>234.4  |   | Unit<br>mg/Kg                  | D       | % <b>Rec</b><br>94   | Prep<br>%Rec<br>Limits<br>90 - 110   | Type: So<br>  | e Du<br>olubl                                    |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte   |  |                     | Added<br>250<br>Spike<br>Added                          | Result<br>234.4<br>LCSD<br>Result  | Qualifier   | Unit<br>mg/Kg<br>Clies<br>Unit | D       | %Rec<br>94<br>ple ID: I  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits   | Type: So<br><br>ol Sampl  | e Du<br>olubi<br>olubi<br>RP<br>Lim              |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte   |  |                     | Added<br>250<br>Spike                                   | Result<br>234.4<br>LCSD  | Qualifier   | Unit<br>mg/Kg<br>Clier         | D       | %Rec<br>94<br>ple ID: I  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec   | Type: So<br>  | e Du<br>olubi<br>olubi<br>RP<br>Lim              |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-  | 648/3-A  |                     | Added<br>250<br>Spike<br>Added                          | Result<br>234.4<br>LCSD<br>Result  | Qualifier   | Unit<br>mg/Kg<br>Clies<br>Unit | D       | %Rec<br>94<br>ple ID: 1<br>%Rec<br>95  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>Sample ID  | Type: So<br>ol Sampl<br>Type: So<br><u></u><br>1<br>: Matrix                        | e Du<br>olubi<br>RP<br>Lim<br>2<br>Spik          |
| Lab Sample ID: LCS 880-6764<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-<br>Matrix: Solid<br>Analysis Batch: 67733   | 648/3-A  |                     | Added<br>250<br>Spike<br>Added                          | Result<br>234.4<br>LCSD<br>Result  | Qualifier   | Unit<br>mg/Kg<br>Clies<br>Unit | D       | %Rec<br>94<br>ple ID: 1<br>%Rec<br>95  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>Sample ID  | Type: So<br>ol Sampl<br>Type: So<br><u>RPD</u><br>1                                 | e Du<br>olubi<br>RP<br>Lim<br>2<br>Spik          |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-  | 648/3-A  |                     | Added<br>250<br>Spike<br>Added                          | Result<br>234.4<br>LCSD<br>Result<br>237.6   | Qualifier   | Unit<br>mg/Kg<br>Clies<br>Unit | D       | %Rec<br>94<br>ple ID: 1<br>%Rec<br>95  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>Sample ID  | Type: So<br>ol Sampl<br>Type: So<br><u></u><br>1<br>: Matrix                        | e Du<br>olubi<br>RP<br>Lim<br>2<br>Spik          |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-<br>Matrix: Solid   | 648/3-A<br>4-B MS<br>Sample  | Sample<br>Qualifier | Added<br>250<br>Spike<br>Added<br>250                   | Result<br>234.4<br>LCSD<br>Result<br>237.6   | Qualifier<br>LCSD<br>Qualifier                    | Unit<br>mg/Kg<br>Clies<br>Unit | D       | %Rec<br>94<br>ple ID: 1<br>%Rec<br>95  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>Sample ID<br>Prep  | Type: So<br>ol Sampl<br>Type: So<br><u></u><br>1<br>: Matrix                        | e Du<br>olubi<br>RP<br>Lim<br>2<br>Spik          |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte   | 648/3-A<br>4-B MS<br>Sample  | -                   | Added<br>250<br>Spike<br>Added<br>250<br>Spike          | Result<br>234.4<br>LCSD<br>Result<br>237.6   | Qualifier<br>LCSD<br>Qualifier<br>MS              | Unit<br>mg/Kg<br>Clies         | D       | %Rec<br>94<br>ple ID: 1<br>%Rec<br>95<br>Client  | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>Sample ID<br>Prep<br>%Rec  | Type: So<br>ol Sampl<br>Type: So<br><u></u><br>1<br>: Matrix                        | e Du<br>olubi<br>RP<br>Lim<br>2<br>Spik          |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-<br>Matrix: Solid<br>Analysis Batch: 67733  | 648/3-A<br>4-B MS<br>Sample<br>Result<br>12100<br>4-C MSD                  | Qualifier           | Added<br>250<br>Spike<br>Added<br>250<br>Spike<br>Added | Result           234.4           LCSD           Result           237.6           MS           Result           16650 | Qualifier<br>LCSD<br>Qualifier<br>MS<br>Qualifier | Unit<br>mg/Kg<br>Unit<br>mg/Kg | D       | %Rec         94           ple ID: 1         %Rec           95         Client           %Rec         91 | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>Sample ID<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>: Matrix Sp<br>Prep | Type: So<br>Sampl<br>Type: So<br><u>RPD</u><br>1<br>: Matrix<br>Type: So            | e Du<br>olubl<br>RP<br>Lim<br>2<br>Spik<br>olubl |
| Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: LCSD 880-670<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-<br>Matrix: Solid<br>Analysis Batch: 67733<br>Analyte<br>Chloride<br>Lab Sample ID: 880-36047-A-<br>Matrix: Solid | 648/3-A<br>4-B MS<br>Sample<br><u>Result</u><br>12100<br>4-C MSD<br>Sample | Qualifier           | Added<br>250<br>Spike<br>Added<br>250<br>Spike<br>Added | Result<br>234.4<br>LCSD<br>Result<br>237.6<br>MS<br>Result<br>16650  | Qualifier<br>LCSD<br>Qualifier<br>MS              | Unit<br>mg/Kg<br>Unit<br>mg/Kg | D       | %Rec         94           ple ID: 1         %Rec           95         Client           %Rec         91 | Prep<br>%Rec<br>Limits<br>90 - 110<br>Lab Contro<br>Prep<br>%Rec<br>Limits<br>90 - 110<br>Sample ID<br>Prep<br>%Rec<br>Limits<br>90 - 110                        | Type: So<br>ol Sampl<br>Type: So<br><u></u><br>: Matrix<br>Type: So<br><br>oike Dup | e Du<br>olubl<br>RP<br>Lim<br>2<br>Spik<br>olubl |

Page 70 of 133

### **QC Association Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1 SDG: Lea County, New Mexico

### **GC VOA**

### Prep Batch: 67438

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| MB 880-67438/5-A     | Method Blank           | Total/NA  | Solid  | 5035   |            |
| nalysis Batch: 67556 |                        |           |        |        |            |
| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
| 880-36053-1          | H-1 (0-0.5')           | Total/NA  | Solid  | 8021B  | 67580      |
| 380-36053-2          | H-2 (0-0.5')           | Total/NA  | Solid  | 8021B  | 67580      |
| 380-36053-3          | H-3 (0-0.5')           | Total/NA  | Solid  | 8021B  | 67580      |
| 380-36053-4          | H-4 (0-0.5')           | Total/NA  | Solid  | 8021B  | 67580      |
| MB 880-67438/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 67438      |
| MB 880-67580/5-A     | Method Blank           | Total/NA  | Solid  | 8021B  | 67580      |
| CS 880-67580/1-A     | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 67580      |
| CSD 880-67580/2-A    | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 67580      |
| 80-35979-A-31-F MS   | Matrix Spike           | Total/NA  | Solid  | 8021B  | 67580      |
| 380-35979-A-31-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 67580      |

### Prep Batch: 67580

| 880-36053-3  | H-3 (0-0.5')   | Total/NA   | Solid  | 8021B  | 67580      |          |
|--|--|--|--|--|------------|----------|
| 880-36053-4  | H-4 (0-0.5')   | Total/NA   | Solid  | 8021B  | 67580      | 8        |
| MB 880-67438/5-A   | Method Blank   | Total/NA   | Solid  | 8021B  | 67438      |          |
| MB 880-67580/5-A   | Method Blank   | Total/NA   | Solid  | 8021B  | 67580      | 9        |
| LCS 880-67580/1-A  | Lab Control Sample   | Total/NA   | Solid  | 8021B  | 67580      |          |
| LCSD 880-67580/2-A   | Lab Control Sample Dup   | Total/NA   | Solid  | 8021B  | 67580      | 10       |
| 880-35979-A-31-F MS  | Matrix Spike   | Total/NA   | Solid  | 8021B  | 67580      |          |
| 880-35979-A-31-G MSD   | Matrix Spike Duplicate   | Total/NA   | Solid  | 8021B  | 67580      | 11       |
| Prep Batch: 67580  | Client Sample ID   | Prep Type  | Matrix   | Method   | Prep Batch | 12       |
| •  |  |  |  |  |            |          |
| 880-36053-1  | H-1 (0-0.5')   | Total/NA   | Solid  | 5035   |            | 4.0      |
| 880-36053-1<br>880-36053-2   | H-1 (0-0.5')<br>H-2 (0-0.5')   | Total/NA<br>Total/NA                                     | Solid  | 5035<br>5035   |            | 13       |
|  |  |  |  |  |            | 13       |
| 880-36053-2  | H-2 (0-0.5')   | Total/NA   | Solid  | 5035   |            | 13<br>14 |
| 880-36053-2<br>880-36053-3   | H-2 (0-0.5')<br>H-3 (0-0.5')   | Total/NA<br>Total/NA                                     | Solid<br>Solid                                     | 5035<br>5035   |            | 13<br>14 |
| 880-36053-2<br>880-36053-3<br>880-36053-4  | H-2 (0-0.5')<br>H-3 (0-0.5')<br>H-4 (0-0.5')   | Total/NA<br>Total/NA<br>Total/NA                         | Solid<br>Solid<br>Solid                            | 5035<br>5035<br>5035                                 |            | 13<br>14 |
| 880-36053-2<br>880-36053-3<br>880-36053-4<br>MB 880-67580/5-A  | H-2 (0-0.5')<br>H-3 (0-0.5')<br>H-4 (0-0.5')<br>Method Blank   | Total/NA<br>Total/NA<br>Total/NA<br>Total/NA             | Solid<br>Solid<br>Solid<br>Solid                   | 5035<br>5035<br>5035<br>5035                         |            | 13<br>14 |
| 880-36053-2<br>880-36053-3<br>880-36053-4<br>MB 880-67580/5-A<br>LCS 880-67580/1-A                       | H-2 (0-0.5')<br>H-3 (0-0.5')<br>H-4 (0-0.5')<br>Method Blank<br>Lab Control Sample                           | Total/NA<br>Total/NA<br>Total/NA<br>Total/NA<br>Total/NA | Solid<br>Solid<br>Solid<br>Solid<br>Solid          | 5035<br>5035<br>5035<br>5035<br>5035<br>5035         |            | 13<br>14 |
| 880-36053-2<br>880-36053-3<br>880-36053-4<br>MB 880-67580/5-A<br>LCS 880-67580/1-A<br>LCSD 880-67580/2-A | H-2 (0-0.5')<br>H-3 (0-0.5')<br>H-4 (0-0.5')<br>Method Blank<br>Lab Control Sample<br>Lab Control Sample Dup | Total/NA<br>Total/NA<br>Total/NA<br>Total/NA<br>Total/NA | Solid<br>Solid<br>Solid<br>Solid<br>Solid<br>Solid | 5035<br>5035<br>5035<br>5035<br>5035<br>5035<br>5035 |            | 13<br>14 |

### Analysis Batch: 67620

| Lab Sample ID              | Client Sample ID             | Prep Type            | Matrix         | Method                   | Prep Batch |
|----------------------------|------------------------------|----------------------|----------------|--------------------------|------------|
| 880-36053-1                | H-1 (0-0.5')                 | Total/NA             | Solid          | Total BTEX               |            |
| 880-36053-2<br>880-36053-3 | H-2 (0-0.5')<br>H-3 (0-0.5') | Total/NA<br>Total/NA | Solid<br>Solid | Total BTEX<br>Total BTEX |            |
| 880-36053-4                | H-4 (0-0.5')                 | Total/NA             | Solid          | Total BTEX               |            |
| 880-30053-4                | П-4 (0-0.3)                  | TOtal/INA            | Solid          | IOLAI BIEA               |            |

### GC Semi VOA

### Prep Batch: 67569

| Lab Sample ID         | Client Sample ID       | Ргер Туре | Matrix | Method      | Prep Batch |
|-----------------------|------------------------|-----------|--------|-------------|------------|
| 880-36053-1           | H-1 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36053-2           | H-2 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36053-3           | H-3 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36053-4           | H-4 (0-0.5')           | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-67569/1-A      | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-67569/2-A     | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-67569/3-A    | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 820-10978-A-16-E MS   | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 820-10978-A-16-F MSD  | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |
| Analysis Batch: 67601 |                        |           |        |             |            |
| Lab Sample ID         | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
| 880-36053-1           | H-1 (0-0.5')           | Total/NA  | Solid  | 8015B NM    | 67569      |

Eurofins Midland

### **QC Association Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23)

### GC Semi VOA (Continued)

### Analysis Batch: 67601 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-36053-2          | H-2 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 67569      |
| 880-36053-3          | H-3 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 67569      |
| 880-36053-4          | H-4 (0-0.5')           | Total/NA  | Solid  | 8015B NM | 67569      |
| MB 880-67569/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 67569      |
| LCS 880-67569/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 67569      |
| LCSD 880-67569/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 67569      |
| 820-10978-A-16-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 67569      |
| 820-10978-A-16-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 67569      |

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-36053-1   | H-1 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |
| 880-36053-2   | H-2 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |
| 880-36053-3   | H-3 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |
| 880-36053-4   | H-4 (0-0.5')     | Total/NA  | Solid  | 8015 NM |            |

### HPLC/IC

### Leach Batch: 67648

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-36053-1         | H-1 (0-0.5')           | Soluble   | Solid  | DI Leach |            |
| 880-36053-2         | H-2 (0-0.5')           | Soluble   | Solid  | DI Leach |            |
| 380-36053-3         | H-3 (0-0.5')           | Soluble   | Solid  | DI Leach |            |
| 380-36053-4         | H-4 (0-0.5')           | Soluble   | Solid  | DI Leach |            |
| MB 880-67648/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| _CS 880-67648/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| _CSD 880-67648/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 380-36047-A-4-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 380-36047-A-4-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

### Analysis Batch: 67733

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-36053-1         | H-1 (0-0.5')           | Soluble   | Solid  | 300.0  | 67648      |
| 880-36053-2         | H-2 (0-0.5')           | Soluble   | Solid  | 300.0  | 67648      |
| 880-36053-3         | H-3 (0-0.5')           | Soluble   | Solid  | 300.0  | 67648      |
| 880-36053-4         | H-4 (0-0.5')           | Soluble   | Solid  | 300.0  | 67648      |
| MB 880-67648/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 67648      |
| LCS 880-67648/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 67648      |
| LCSD 880-67648/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 67648      |
| 880-36047-A-4-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 67648      |
| 880-36047-A-4-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 67648      |

Page 72 of 133

### Job ID: 880-36053-1 SDG: Lea County, New Mexico
Project/Site: Lusk Deep Unit 028H (10.24.23)

Job ID: 880-36053-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-36053-1 Matrix: Solid

Lab Sample ID: 880-36053-2

Lab Sample ID: 880-36053-3

Lab Sample ID: 880-36053-4

Matrix: Solid

Matrix: Solid

Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

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

Client: Carmona Resources

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 10:54 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 67620  | 11/22/23 10:54 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67749  | 11/22/23 14:38 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10 mL  | 67569  | 11/21/23 14:44 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 14:38 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 67733  | 11/27/23 14:01 | СН      | EET MID |

#### Client Sample ID: H-2 (0-0.5') Date Collected: 11/20/23 00:00

#### Date Received: 11/21/23 10:01

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 11:15 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 67620  | 11/22/23 11:15 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67749  | 11/22/23 15:01 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 67569  | 11/21/23 14:44 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 15:01 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.00 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 67733  | 11/27/23 14:07 | СН      | EET MID |

# Client Sample ID: H-3 (0-0.5') Date Collected: 11/20/23 00:00

| Date | Received: | 11/21/23 | 10:01 |
|------|-----------|----------|-------|
|      |           |          |       |

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.98 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 11:35 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 67620  | 11/22/23 11:35 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67749  | 11/22/23 15:45 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.09 g | 10 mL  | 67569  | 11/21/23 14:44 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 15:45 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.97 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 67733  | 11/27/23 14:12 | CH      | EET MID |

#### Client Sample ID: H-4 (0-0.5') Date Collected: 11/20/23 00:00 Date Received: 11/21/23 10:01

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 4.99 g  | 5 mL   | 67580  | 11/21/23 14:52 | EL      | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 67556  | 11/22/23 11:55 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 67620  | 11/22/23 11:55 | SM      | EET MID |

**Eurofins Midland** 

5 6

9

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 67749  | 11/22/23 16:07 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10 mL  | 67569  | 11/21/23 14:44 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 67601  | 11/22/23 16:07 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL  | 67648  | 11/22/23 14:03 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 67733  | 11/27/23 14:30 | СН      | EET MID |

#### Laboratory References:

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

Page 74 of 133

Job ID: 880-36053-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-36053-4

Matrix: Solid

5 6

9

Eurofins Midland

**Released to Imaging: 4/1/2024 7:45:25 AM** 

# Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Lusk Deep Unit 028H (10.24.23) Job ID: 880-36053-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

| Authority                               | Program                         | n                            | Identification Number                    | Expiration Date        |
|---|---------------------------------|------------------------------|--|------------------------|
| Texas                                   | NELAP                           |                              | T104704400-23-26                         | 06-30-24               |
| The following englyte                   | ore included in this report but | the leheratory is not cortif | ind by the approxima outbority. This lie | t may include analytee |
| for which the agency                    | loes not offer certification.   | -                            | ied by the governing authority. This lis | t may include analytes |
| for which the agency<br>Analysis Method |                                 | Matrix                       | Analyte                                  | t may include analytes |
| for which the agency                    | loes not offer certification.   | -                            |  |                        |

Eurofins Midland

**Page** 75 of 133

10

Project/Site: Lusk Deep Unit 028H (10.24.23)

Client: Carmona Resources

### Job ID: 880-36053-1 SDG: Lea County, New Mexico

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

#### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Job ID: 880-36053-1 SDG: Lea County, New Mexico

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |  |
|---------------|------------------|--------|----------------|----------------|--|
| 380-36053-1   | H-1 (0-0.5')     | Solid  | 11/20/23 00:00 | 11/21/23 10:01 |  |
| 380-36053-2   | H-2 (0-0.5')     | Solid  | 11/20/23 00:00 | 11/21/23 10:01 |  |
| 880-36053-3   | H-3 (0-0.5')     | Solid  | 11/20/23 00:00 | 11/21/23 10:01 |  |
| 880-36053-4   | H-4 (0-0.5')     | Solid  | 11/20/23 00:00 | 11/21/23 10:01 |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |
|               |                  |        |                |                |  |

Received by OCD: 1/25/2024 9:54:33 AM

0 0 4 U 0 M 0

| Company Name.       Carmona Resources       Company Name       Image: Company Name       Program: UST/PST       PRP       Image: Company Name       Image: Company Name       Image: Company Name       Image: Company Name       Program: UST/PST       PRP       Image: Company Name       Image: Company Name       Image: Company Name       Image: Company Name       Program: UST/PST       PRP       Image: Company Name       Image: Company Name <th></th> <th>onner Moehri</th> <th></th> <th></th> <th></th> <th>Bill to (if</th> <th>different)</th> <th></th> <th>Carm</th> <th>iona R</th> <th>esource</th> <th>es</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Nork (</th> <th>Order</th> <th>Page 1</th> <th> of1</th>  |  | onner Moehri   |                |                            |          | Bill to (if | different)   |            | Carm     | iona R | esource  | es       |          |   |                 |   |          |           |          | Nork (   | Order | Page 1        | of1       |
|---|--|----------------|----------------|----------------------------|----------|-------------|--------------|------------|----------|--------|----------|----------|----------|---|-----------------|---|----------|-----------|----------|----------|-------|---------------|-----------|
| Address       Address       State of Project:       RRP       Level N         ihy, State ZIP       Midland, TX 79701       City, State ZIP       Email       mcarmona@carmonaresources.com       State of Project:       Reporting Level II       Bull II       BST/UST       RRP       Level N       Devel N         whone.       432-813-6823       Email       mcarmona@carmonaresources.com       Address       Project Name.       Address       Project Name.       Address       Project Name.       Code       None: NO       DI Water H <sub>2</sub> C         roject Name.       2195       Routine       Rush       Pres.       Code       None: NO       DI Water H <sub>2</sub> C         roject Name.       GPJ       GPJ       Vestor       Vestor       None: NO       DI Water H <sub>2</sub> C         roject Name.       GPJ       GPJ       Vestor       Vestor       Vestor       None: NO       DI Water H <sub>2</sub> C         roject Number       Vestor       Vestor       Vestor       Vestor       Vestor       None: NO       DI Water H <sub>2</sub> C         roject Number       Vestor       Vestor       Vestor       Vestor       Vestor       None: NO   |  |                |                |                            |          | Compan      | y Name       |            | ļ        |        |          |          |          |   |                 |   | Progra   | m: UST    |          | PRP      | ]]row | vnfields 📑 RC |           |
| Hone.       432-813-6823       Email       Incarrona@carronaresources.com       Deliverables       EDI       ADaPT       Other         troject Name.       Lusk Deep Unit 028H (10.24.23)       Turn Around       Preservative Codes       Preservative Codes       Preservative Codes       Preservative Codes       Preservative Codes       Preservative Codes       None: NO       DI Water H <sub>2</sub> Code       None: NO       None: NO       DI Water H <sub>2</sub> Code       None: NO       None: NO       DI Water H <sub>2</sub> Code       None: NO       None: NO <td></td> <td></td> <td></td> <td></td> <td></td> <td>Address</td> <td></td> <td></td> <td><u> </u></td> <td></td>   |  |                |                |                            |          | Address     |              |            | <u> </u> |        |          |          |          |   |                 |   |          |           |          |          |       |               |           |
| Instrume       Lusk Deep Unit 028H (10.24.23)       Turn Around       Pres.       ANAL YSIS REQUEST       Pres.   |  |                | 701            |                            | T        | 1           |              |            |          |        |          |          |          |   |                 |   | Reporti  | ng Leve   | III 🗌 Le | evel III | ⊡s    | T/UST         | Level IV  |
| Image: Stample state       2195       Routine       Z Rush       Pres Code       Nume: NO IL GOEST       Nume: NO IL GOEST       None: NO       DI Water H <sub>2</sub> Codes         roject Location       Lea County, New Mexico       Due Date       72 HR       Image: Code       Image: Code<  | Phone. 43:                             | 2-813-6823     |                |                            | Email    | mcarmo      | ona@car      | monare     | source   | es.con | <u>n</u> |          |          |   |                 |   | Delivera | ables E   | DD [     | ]        | ADaF  | PT 🖸 🛛 Other  |           |
| Image: Project Number       2195       Image: Project Location       Routine       Press. Code       Image: Press. Code <th< td=""><td>Project Name.</td><td>Lusk Dee</td><td>ep Unit 028H (</td><td>(10.24.23)</td><td>Turn</td><td>Around</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>REO</td><td>IEST</td><td></td><td></td><td></td><td></td><td>Breeser</td><td></td></th<>   | Project Name.                          | Lusk Dee       | ep Unit 028H ( | (10.24.23)                 | Turn     | Around      |              |            |          |        |          |          |          |   |                 | REO   | IEST     |           |          |          |       | Breeser       |           |
| Instruct Location       Lea County, New Mexico       Due Date       72 HR       Professor       Column Figure   | Project Number                         |                | 2195           |                            |          |             | h            |            |          | 1      |          | <u> </u> | Ń        |   |                 | \ has \\$6  |          |           |          | - T      | 1     |               |           |
| GPJ       GPJ       GOW       GWW       G   | Project Location                       | Lea (          | County, New N  | /lexico                    | Due Date | 72          | HR           |            |          |        |          | <u> </u> | 1        |   |                 |   |          |           | _        |          |       |               | -         |
| H-1 (0-0.5')     11/20/2023     X     G     1     X     X     X     Sample Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-4 (0.0.5')     11/20/2023     X     G     1     X     X     Image: Comments   | Sampler's Name.                        |                |                |                            |          |             |              | 1          |          | l ĝ    |          |          |          |   |                 |   |          |           |          |          |       |               |           |
| H-1 (0-0.5')     11/20/2023     X     G     1     X     X     X     Sample Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-4 (0.0.5')     11/20/2023     X     G     1     X     X     Image: Comments   | PO #                                   |                |                | $\sim$                     |          |             |              | υ          | -        | ₹<br>+ |          |          |          |   |                 |   |          |           |          |          |       |               |           |
| H-1 (0-0.5')     11/20/2023     X     G     1     X     X     X     Sample Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments   | AMPLE RECEIPT                          |                | Blank:         | Yes No                     | Wet Ice: | (Yes        | )_No         | ete        | m        | SR .   | 0.       |          |          |   |                 |   |          |           |          |          |       | J             | Naon na   |
| H-1 (0-0.5')     11/20/2023     X     G     1     X     X     X     X     Sample Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments     Image: Comments     Image: Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     Image: Comments     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     Image: Comments     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     Image: Comments     Image: Comments       H-4 (0.0.5')     11/20/2023     X     G     1     X     X     Image: Comments     Image: Comments   |  |                |                |                            |          | -51         | 18           | Lan        | 8021     | - to   | e 30     |          |          |   |                 |   |          |           |          |          |       |               | 1         |
| H-1 (0-0.5')     11/20/2023     X     G     1     X     X     X     Sample Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments   |  |                |                |                            |          |             |              | ] <b>e</b> | Ĕ        | GR     | orid     |          |          |   |                 |   |          |           |          |          |       |               |           |
| H-1 (0-0.5')     11/20/2023     X     G     1     X     X     X     Sample Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-4 (0.0.5')     11/20/2023     X     G     1     X     X     Image: Comments   |  | Yes            | No N/A         |                            |          |             |              |            | n l      | 5M (   | ਚ        |          |          |   |                 |   |          |           |          |          |       |               |           |
| H-1 (0-0.5')     11/20/2023     X     G     1     X     X     X     Sample Comments       H-2 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-3 (0-0.5')     11/20/2023     X     G     1     X     X     X     Image: Comments       H-4 (0.0.5')     11/20/2023     X     G     1     X     X     Image: Comments   | otal Containers                        | L              |                | Corrected Temp             | erature. | <u> </u>    | <u>' -  </u> |            |          | 1801   |          |          |          | . |                 |   |          |           |          |          |       |               |           |
| H-2 (0-0.5)     11/20/2023     X     G     1     X     X     X       H-3 (0-0.5)     11/20/2023     X     G     1     X     X     X   |  |                | Date           | Time                       | Soil     | Water       | 4            |            |          | Id     |          |          |          |   |                 |   |          |           |          |          |       | Sample C      | omments   |
| H-3 (0-0.5') 11/20/2023 X G 1 X X X   | H-1 (0-0.5')                           | )              | 11/20/2023     |                            | Х        | 1           | G            | 1          | X        | X      | X        |          |          |   |                 |   |          |           |          |          |       |               |           |
|   |  |                | 11/20/2023     |                            | Х        | 1           | G            | 1          | X        | X      | X        |          |          |   |                 |   |          |           |          |          | -     |               |           |
| H-4 (0-0.5')       11/20/2023       X       G       1       X   |  |                | 11/20/2023     |                            | х        | 1           | G            | 1          | X        | X      | X        |          |          |   |                 |   |          |           |          |          | +-    |               |           |
| Image: Sector of the sector | H-4 (0-0.5')                           | )              | 11/20/2023     |                            | Х        |             | G            | 1          | X        | X      | X        |          |          |   |                 |   |          |           |          |          |       |               |           |
| Image: Second |  |                |                |                            |          |             |              |            |          |        |          |          | <b> </b> |   |                 |   |          |           |          |          |       |               |           |
|   |  | ····-          |                |                            |          |             |              |            |          |        |          |          |          |   |                 |   |          |           |          |          | 1     |               |           |
|   |  |                |                |                            |          |             |              |            |          |        |          |          |          |   |                 |   |          |           |          |          |       |               |           |
|   | ······                                 |                |                |                            |          |             |              |            |          |        |          |          |          |   |                 |   |          |           |          |          |       |               |           |
|   |  |                |                |                            |          |             |              |            |          |        |          |          |          | T |                 |   |          |           |          |          | -     |               |           |
|   | ······································ |                |                |                            |          |             |              |            |          |        |          |          |          | - |                 |   |          |           |          |          |       |               |           |
|   |  |                |                |                            |          |             |              | -          |          |        |          |          |          | - |                 |   |          |           |          |          |       |               |           |
|   |  |                |                |                            |          |             |              |            |          |        |          |          |          |   |                 |   |          |           |          |          |       |               |           |
|   |  |                |                |                            |          |             |              |            |          |        |          |          |          |   |                 |   |          |           |          |          |       |               |           |
| omments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com   |  | F              | elinguished b  | v <sup>.</sup> (Signature) |          |             |              | [          | Date/    | Timo   |          | 1        |          |   |                 | 7   |          | (0        |          |          |       |               |           |
|   | $\bigcirc$                             | -71-           |                | , (                        |          |             |              |            | Dater    | Time   |          |          |          |   | _(_'            | <ece< td=""><td>lived by</td><td>(Signa</td><td></td><td></td><td></td><td></td><td>Date/Time</td></ece<> | lived by | (Signa    |          |          |       |               | Date/Time |
| Relinquished by: (Signature)     Date/Time     Received by: (Signature)     Date/Time   |  | talakti i      |                |                            |          |             |              |            |          |        |          |          |          |   | $\overline{\ }$ |   | 1        | $\Delta $ | $\leq$   |          | -     |               |           |
| Relinquished by: (Signature)     Date/Time     Received by: (Signature)     Date/Time   | Xound                                  | <u> WINN//</u> |                |                            |          |             |              | 11-2       | 1-1      | 3      |          | 1        |          |   |                 |   |          |           |          |          |       |               |           |

13

•

Job Number: 880-36053-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

# Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 36053 List Number: 1 Creator: Rodriguez, Leticia

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Mike Carmona Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 12/6/2023 1:18:16 PM

# JOB DESCRIPTION

Lusk Deep Unit 025H (10.24.23)

# **JOB NUMBER**

880-36411-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701





# **Eurofins Midland**

# Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# Authorization

AMER

Generated 12/6/2023 1:18:16 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

# **Table of Contents**

| Cover Page             | 1  |
|------------------------|----|
| Table of Contents      | 3  |
| Definitions/Glossary   | 4  |
| Case Narrative         | 5  |
| Client Sample Results  | 7  |
| Surrogate Summary      | 16 |
| QC Sample Results      | 18 |
| QC Association Summary | 25 |
| Lab Chronicle          | 29 |
| Certification Summary  | 33 |
| Method Summary         | 34 |
| Sample Summary         | 35 |
|                        | 36 |
| Receipt Checklists     | 38 |
|                        |    |

Page 82 of 133

Page 83 of 133

|                  | Definitions/Glossary  |                     |    |
|------------------|---|---------------------|----|
| Client: Carmona  | a Resources   | Job ID: 880-36411-1 |    |
| Project/Site: Lu | sk Deep Unit 025H (10.24.23)  |                     |    |
| Qualifiers       |   |                     |    |
| GC VOA           |   |                     |    |
| Qualifier        | Qualifier Description   |                     |    |
| 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   |                     |    |
| F1               | MS and/or MSD recovery exceeds control limits.  |                     |    |
| S1+              | Surrogate recovery exceeds control limits, high biased.   |                     |    |
| U                | Indicates the analyte was analyzed for but not detected.  |                     |    |
|                  |   |                     |    |
| HPLC/IC          | Quelifier Description   |                     |    |
| Qualifier<br>U   | Qualifier Description   |                     |    |
| U                | Indicates the analyte was analyzed for but not detected.  |                     | i. |
| 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<br>PQL       | Positive / Present Practical Quantitation Limit   |                     |    |
| PQL<br>PRES      |   |                     |    |
| QC               | Presumptive 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)   |                     |    |
| TEQ              | Toxicity Equivalent Quotient (Dioxin)   |                     |    |
| TNTC             | Too Numerous To Count   |                     |    |

TNTC Too Numerous To Count

## Case Narrative

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23) Job ID: 880-36411-1

#### Job ID: 880-36411-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-36411-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 12/4/2023 1:52 PM. 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 -8.6°C

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-36273-A-41-B MS) and (880-36273-A-41-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68224 and analytical batch 880-68206 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-68224/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-68308/1-A), (MB 880-68223/5-A) and (MB 880-68308/5-A). Evidence of matrix interferences is not obvious.

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 surrogate recovery for the blank associated with preparation batch 880-68386 and analytical batch 880-68368 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (5') (880-36411-1), CS-2 (5') (880-36411-2), SW-1 (5') (880-36411-6), SW-2 (5') (880-36411-7), SW-4 (5') (880-36411-9), (880-36387-A-4-F MS) and (880-36387-A-4-G 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 samples were outside control limits: SW-5 (5') (880-36411-10) and SW-6 (5') (880-36411-11). 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: (CCV 880-68368/20). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68386 and analytical batch 880-68368 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-68368 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been

Job ID: 880-36411-1

## **Case Narrative**

| Client: Carmona Resources                    |
|--|
| Project/Site: Lusk Deep Unit 025H (10.24.23) |

#### Job ID: 880-36411-1 (Continued)

#### Laboratory: Eurofins Midland (Continued)

qualified and reported. The associated sample is impacted: (CCV 880-68368/20).

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

#### HPLC/IC

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

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

## Client Sample ID: CS-1 (5') Date Collected: 12/01/23 00:00

Date Received: 12/04/23 13:52

| D   | Result   | Qualifier  | RL  | MDL | Unit                            | D        | Prepared   | Analyzed   | Dil Fac   |
|---|--|--|---|-----|---------------------------------|----------|--|--|---|
| Benzene   | <0.00200   | U  | 0.00200   |     | mg/Kg                           |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| Toluene   | <0.00200   | U  | 0.00200   |     | mg/Kg                           |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| Ethylbenzene  | <0.00200   | U  | 0.00200   |     | mg/Kg                           |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| m-Xylene & p-Xylene   | <0.00400   | U  | 0.00400   |     | mg/Kg                           |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| o-Xylene  | <0.00200   | U  | 0.00200   |     | mg/Kg                           |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| Xylenes, Total  | <0.00400   | U  | 0.00400   |     | mg/Kg                           |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| Surrogate   | %Recovery  | Qualifier  | Limits  |     |                                 |          | Prepared   | Analyzed   | Dil Fac   |
| 4-Bromofluorobenzene (Surr)   | 83   |  | 70 - 130  |     |                                 |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| 1,4-Difluorobenzene (Surr)  | 99   |  | 70 - 130  |     |                                 |          | 12/04/23 14:30   | 12/04/23 18:14   | 1   |
| Method: TAL SOP Total BTEX - T  | otal BTEX Calo   | culation   |   |     |                                 |          |  |  |   |
| Analyte   | Result   | Qualifier  | RL  | MDL | Unit                            | D        | Prepared   | Analyzed   | Dil Fac   |
| Total BTEX  | <0.00400   | U  | 0.00400   |     | mg/Kg                           |          |  | 12/04/23 18:14   | 1   |
| Method: SW846 8015 NM - Diese   | l Range Organ  | ics (DRO) (  | GC)   |     |                                 |          |  |  |   |
| Analyte   |  | Qualifier  | RL  | MDL | Unit                            | D        | Prepared   | Analyzed   | Dil Fac   |
|   |  |  |   |     |                                 |          |  |  |   |
| Total TPH   | <50.5  | U  | 50.5  |     | mg/Kg                           |          |  | 12/05/23 11:36   | 1   |
| Method: SW846 8015B NM - Dies   | sel Range Orga   |  |   | MDL | mg/Kg<br>Unit                   | D        | Prepared   | 12/05/23 11:36<br>Analyzed   | 1<br>Dil Fac  |
| Method: SW846 8015B NM - Dies<br>Analyte  | sel Range Orga   | nics (DRO)<br>Qualifier                                    | (GC)  | MDL |                                 | <u>D</u> | Prepared<br>12/05/23 09:30   |  |   |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10  | el Range Orga<br>Result<br><50.5   | <b>nics (DRO)</b><br>Qualifier<br>U                        | (GC)<br>  | MDL | Unit<br>mg/Kg                   | <u>D</u> | 12/05/23 09:30   | Analyzed<br>12/05/23 11:36   | Dil Fac   |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over  | el Range Orga<br>Result  | <b>nics (DRO)</b><br>Qualifier<br>U                        | (GC)  | MDL | Unit                            | <u>D</u> |  | Analyzed   | Dil Fac   |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)  | el Range Orga<br>Result<br><50.5   | nics (DRO)<br>Qualifier<br>U                               | (GC)<br>  | MDL | Unit<br>mg/Kg                   | <u> </u> | 12/05/23 09:30   | Analyzed<br>12/05/23 11:36   | Dil Fac   |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)   | sel Range Orga<br>Result<br><50.5  | <b>Qualifier</b><br>U<br>U<br>U                            | (GC)<br><u>RL</u><br>50.5<br>50.5   | MDL | Unit<br>mg/Kg<br>mg/Kg          | <u>D</u> | 12/05/23 09:30<br>12/05/23 09:30   | Analyzed<br>12/05/23 11:36<br>12/05/23 11:36   |   |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate  | sel Range Orga<br>Result<br><50.5<br><50.5<br><50.5  | nics (DRO)<br>Qualifier<br>U<br>U<br>Qualifier             | (GC)<br><u>RL</u><br>50.5<br>50.5<br>50.5   | MDL | Unit<br>mg/Kg<br>mg/Kg          | <u> </u> | 12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30   | Analyzed<br>12/05/23 11:36<br>12/05/23 11:36<br>12/05/23 11:36   |   |
| Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl                                  | sel Range Orga<br><u>Result</u><br><50.5<br><50.5<br><50.5<br>%Recovery                                      | nics (DRO)<br>Qualifier<br>U<br>U<br>Qualifier             | (GC)<br><u>RL</u><br>50.5<br>50.5<br>50.5<br>Limits   | MDL | Unit<br>mg/Kg<br>mg/Kg          | <u>D</u> | 12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared   | Analyzed<br>12/05/23 11:36<br>12/05/23 11:36<br>12/05/23 11:36<br>Analyzed                                     | Dil Fac   |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane  | sel Range Orga<br>Result<br><50.5<br><50.5<br><50.5<br>%Recovery<br>135<br>119                               | nics (DRO)<br>Qualifier<br>U<br>U<br>U<br>Qualifier<br>S1+ | (GC)<br><u>RL</u><br>50.5<br>50.5<br>50.5<br><u>Limits</u><br>70 - 130<br>70 - 130              | MDL | Unit<br>mg/Kg<br>mg/Kg          | <u> </u> | 12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br><b>Prepared</b><br>12/05/23 09:30                                      | Analyzed<br>12/05/23 11:36<br>12/05/23 11:36<br>12/05/23 11:36<br>Analyzed<br>12/05/23 11:36                   | Dil Fac<br>1<br>1<br>1<br><i>Dil Fac</i>                |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>p-Terphenyl<br>Method: EPA 300.0 - Anions, Ion            | sel Range Orga<br><u>Result</u><br><50.5<br><50.5<br><50.5<br><u>%Recovery</u><br>135<br>119<br>Chromatograp | nics (DRO)<br>Qualifier<br>U<br>U<br>U<br>Qualifier<br>S1+ | (GC)<br><u>RL</u><br>50.5<br>50.5<br><u>50.5</u><br><u>Limits</u><br>70 - 130<br>70 - 130<br>RL |     | Unit<br>mg/Kg<br>mg/Kg          | D        | 12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br><b>Prepared</b><br>12/05/23 09:30                                      | Analyzed<br>12/05/23 11:36<br>12/05/23 11:36<br>12/05/23 11:36<br>Analyzed<br>12/05/23 11:36                   | Dil Fac<br>1<br>1<br>1<br><i>Dil Fac</i>                |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>p-Terphenyl   | sel Range Orga<br><u>Result</u><br><50.5<br><50.5<br><50.5<br><u>%Recovery</u><br>135<br>119<br>Chromatograp | unics (DRO)<br>Qualifier<br>U<br>U<br>Qualifier<br>S1+     | (GC)<br><u>RL</u><br>50.5<br>50.5<br>50.5<br><u>Limits</u><br>70 - 130<br>70 - 130<br>70 - 130  |     | Unit<br>mg/Kg<br>mg/Kg<br>mg/Kg |          | 12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br><b>Prepared</b><br>12/05/23 09:30<br>12/05/23 09:30                    | Analyzed<br>12/05/23 11:36<br>12/05/23 11:36<br>12/05/23 11:36<br>Analyzed<br>12/05/23 11:36<br>12/05/23 11:36 | Dil Fac<br>1<br>1<br>1<br>1<br>1<br><i>Dil Fac</i><br>1 |
| Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>D-Terphenyl<br>Method: EPA 300.0 - Anions, Ion<br>Analyte | sel Range Orga<br>Result<br><50.5<br><50.5<br><50.5<br>%Recovery<br>135<br>119<br>Chromatograp<br>Result     | unics (DRO)<br>Qualifier<br>U<br>U<br>Qualifier<br>S1+     | (GC)<br><u>RL</u><br>50.5<br>50.5<br><u>50.5</u><br><u>Limits</u><br>70 - 130<br>70 - 130<br>RL |     | Unit<br>mg/Kg<br>mg/Kg<br>Mg/Kg |          | 12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br><b>Prepared</b><br>12/05/23 09:30<br>12/05/23 09:30<br><b>Prepared</b> | Analyzed<br>12/05/23 11:36<br>12/05/23 11:36<br>12/05/23 11:36<br>Analyzed<br>Analyzed                         | Dil Fac   |

# Method: SW846 8021B - Volatile Organic Compounds (GC)

| Wethou. 30040 0021D - Volat | ne organic comp |           | /        |     |       |   |                |                |         |
|-----------------------------|-----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte                     | Result          | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene                     | <0.00199        | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
| Toluene                     | <0.00199        | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
| Ethylbenzene                | <0.00199        | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
| m-Xylene & p-Xylene         | <0.00398        | U         | 0.00398  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
| o-Xylene                    | <0.00199        | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
| Xylenes, Total              | <0.00398        | U         | 0.00398  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
| Surrogate                   | %Recovery       | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 83              |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 111             |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 18:34 | 1       |
|                             |                 |           |          |     |       |   |                |                |         |

Eurofins Midland

Page 86 of 133

Job ID: 880-36411-1

# Lab Sample ID: 880-36411-1

Matrix: Solid

5

Job ID: 880-36411-1

Lab Sample ID: 880-36411-2

#### Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

| C | lien | t Sa | Im | ple | D    | C | <b>S-2</b> | (5') | ) |
|---|------|------|----|-----|------|---|------------|------|---|
| _ | _    |      |    | -   | <br> |   |            |      |   |

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00398      | U           | 0.00398  |     | mg/Kg |   |                | 12/04/23 18:34 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organ   | ics (DRO) ( | GC)      |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <49.7         | U           | 49.7     |     | mg/Kg |   |                | 12/05/23 11:58 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <49.7         | U           | 49.7     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 11:58 | 1       |
| (GRO)-C6-C10                      |               |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.7         | U           | 49.7     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 11:58 | 1       |
| C10-C28)                          |               |             |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <49.7         | U           | 49.7     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 11:58 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 146           | S1+         | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 11:58 | 1       |
| o-Terphenyl                       | 127           |             | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 11:58 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 219           |             | 4.99     |     | mg/Kg |   |                | 12/04/23 22:54 | 1       |

# Client Sample ID: CS-3 (5')

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

## Lab Sample ID: 880-36411-3 Matrix: Solid

# Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90        |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |
| 1,4-Difluorobenzene (Surr)  | 114       |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 18:55 | 1       |

| Analyte                         | Result            | Qualifier    | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Total BTEX                      | <0.00398          | U            | 0.00398 |     | mg/Kg |   |                | 12/04/23 18:55 | 1       |
| Method: SW846 8015 NM - Die     | esel Range Organ  | ics (DRO) (C | GC)     |     |       |   |                |                |         |
| Analyte                         | Result            | Qualifier    | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                       | <49.7             | U            | 49.7    |     | mg/Kg |   |                | 12/05/23 12:20 | 1       |
| -<br>Method: SW846 8015B NM - D | )iesel Range Orga | nics (DRO)   | (GC)    |     |       |   |                |                |         |
| Analyte                         | Result            | Qualifier    | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics         | <49.7             |              | 49.7    |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 12:20 | 1       |

Eurofins Midland

12/05/23 12:20

12/05/23 09:30

1 uge 07 0j 1

Matrix: Solid

5

Diesel Range Organics (Over

C10-C28)

49.7

mg/Kg

<49.7 U

1

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

# Client Sample ID: CS-3 (5')

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

m-Xylene & p-Xylene

o-Xylene

| Analyte   | Result      | Qualifier  | RL       | MDL | Unit          | D        | Prepared       | Analyzed       | Dil Fac   |
|---|-------------|------------|----------|-----|---------------|----------|----------------|----------------|-----------|
| Oll Range Organics (Over C28-C36)                               | <49.7       | U          | 49.7     |     | mg/Kg         |          | 12/05/23 09:30 | 12/05/23 12:20 | 1         |
| Surrogate   | %Recovery   | Qualifier  | Limits   |     |               |          | Prepared       | Analyzed       | Dil Fac   |
| 1-Chlorooctane  | 126         |            | 70 - 130 |     |               |          | 12/05/23 09:30 | 12/05/23 12:20 | 1         |
| o-Terphenyl   | 112         |            | 70 - 130 |     |               |          | 12/05/23 09:30 | 12/05/23 12:20 | 1         |
| Analyte<br>Chloride   | Result      | Qualifier  |          | MDL | Unit<br>mg/Kg | <u>D</u> | Prepared       | Analyzed       | Dil Fa    |
| -<br>Client Sample ID: CS-4 (5')                                |             |            |          |     | <u> </u>      |          | Lab Sam        | ple ID: 880-3  |           |
| Date Collected: 12/01/23 00:00<br>Date Received: 12/04/23 13:52 |             |            |          |     |               |          |                | Matri          | ix: Solid |
| -<br>Method: SW846 8021B - Volatile O                           | rganic Comp | ounds (GC) | )        |     |               |          |                |                |           |
| Analyte   | Result      | Qualifier  | RL       | MDL | Unit          | D        | Prepared       | Analyzed       | Dil Fac   |
| Benzene   | <0.00200    | U          | 0.00200  |     | mg/Kg         |          | 12/04/23 14:30 | 12/04/23 19:15 | 1         |
| Toluene   | < 0.00200   | U          | 0.00200  |     | mg/Kg         |          | 12/04/23 14:30 | 12/04/23 19:15 | 1         |
| 10100110  |             |            |          |     |               |          |                |                |           |

| Xylenes, Total                      | <0.00399      | U         | 0.00399  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 19:15 | 1       |
|-------------------------------------|---------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Surrogate                           | %Recovery     | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)         | 96            |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 19:15 | 1       |
| 1,4-Difluorobenzene (Surr)          | 109           |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 19:15 | 1       |
| <br>Method: TAL SOP Total BTEX - To | otal BTEX Cal | culation  |          |     |       |   |                |                |         |
| Analyte                             | Result        | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                          | <0.00399      | U         | 0.00399  |     | mg/Kg |   |                | 12/04/23 19:15 | 1       |

0.00399

0.00200

mg/Kg

mg/Kg

12/04/23 14:30

12/04/23 14:30

12/04/23 19:15

12/04/23 19:15

| Method: SW846 8015 NM - Diesel R | ange Organ | ics (DRO) (GO | C)   |     |       |   |          |                |         |
|----------------------------------|------------|---------------|------|-----|-------|---|----------|----------------|---------|
| Analyte                          | Result     | Qualifier     | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                        | <49.9      | U             | 49.9 |     | mg/Kg |   |          | 12/05/23 12:42 | 1       |
|                                  |            |               |      |     |       |   |          |                |         |

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

<0.00399 U

<0.00200 U

| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <49.9        | U           | 49.9     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 12:42 | 1       |
| (GRO)-C6-C10                      |              |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.9        | U           | 49.9     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 12:42 | 1       |
| C10-C28)                          |              |             |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <49.9        | U           | 49.9     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 12:42 | 1       |
| Surrogate                         | %Recovery    | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 129          |             | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 12:42 | 1       |
| o-Terphenyl                       | 112          |             | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 12:42 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 89.8         |             | 5.02     |     | mg/Kg |   |                | 12/04/23 23:16 | 1       |

Page 88 of 133

### Lab Sample ID: 880-36411-3 Matrix: Solid

1

5

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

# Client Sample ID: CS-5 (5')

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

| Analyte  | Result   | Qualifier  | RL   | MDL | Unit   | D            | Prepared   | Analyzed   | Dil Fac          |
|--|--|--|--|-----|--|--------------|--|--|------------------|
| Benzene  | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 12/04/23 14:30   | 12/04/23 19:36   |                  |
| Toluene  | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 12/04/23 14:30   | 12/04/23 19:36   |                  |
| Ethylbenzene   | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 12/04/23 14:30   | 12/04/23 19:36   |                  |
| n-Xylene & p-Xylene  | <0.00401   | U  | 0.00401  |     | mg/Kg  |              | 12/04/23 14:30   | 12/04/23 19:36   |                  |
| p-Xylene   | <0.00200   | U  | 0.00200  |     | mg/Kg  |              | 12/04/23 14:30   | 12/04/23 19:36   |                  |
| Kylenes, Total   | <0.00401   | U  | 0.00401  |     | mg/Kg  |              | 12/04/23 14:30   | 12/04/23 19:36   |                  |
| Surrogate  | %Recovery  | Qualifier  | Limits   |     |  |              | Prepared   | Analyzed   | Dil Fa           |
| 4-Bromofluorobenzene (Surr)  | 101  |  | 70 - 130   |     |  |              | 12/04/23 14:30   | 12/04/23 19:36   |                  |
| 1,4-Difluorobenzene (Surr)   | 107  |  | 70 - 130   |     |  |              | 12/04/23 14:30   | 12/04/23 19:36   | 1                |
| Method: TAL SOP Total BTEX - T   |  |  |  |     |  |              |  |  |                  |
| Analyte  |  | Qualifier  | RL   | MDL |  | D            | Prepared   | Analyzed   | Dil Fac          |
| Total BTEX   | <0.00401   | U  | 0.00401  |     | mg/Kg  |              |  | 12/04/23 19:36   |                  |
|  |  |  | 00)  |     |  |              |  |  |                  |
|  |  |  |  |     |  |              |  |  |                  |
| inalyte<br>iotal TPH   | Result<br><50.0                                      | Qualifier<br>U   | <b>RL</b><br>50.0  | MDL | Unit<br>mg/Kg                                    | <u>D</u>     | Prepared   | Analyzed   |                  |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies  | Result<br><50.0                                      | Qualifier<br>U   | <b>RL</b><br>50.0  | MDL | mg/Kg  | <u>D</u><br> | Prepared Prepared  |  |                  |
| Method: SW846 8015 NM - Diese<br>Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics   | Result<br><50.0                                      | Qualifier<br>U<br>nics (DRO)<br>Qualifier                        | RL<br>50.0   |     | mg/Kg  |              |  | 12/05/23 13:04   | Dil Fa           |
| Analyte<br><sup>Total</sup> TPH<br>Method: SW846 8015B NM - Dies<br>Analyte  | Result<br><50.0<br>sel Range Orga<br>Result          | Qualifier<br>U<br>nics (DRO)<br>Qualifier<br>U                   | (GC)   |     | mg/Kg<br>Unit                                    |              | Prepared   | 12/05/23 13:04   | Dil Fa           |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)  | Result<br><50.0<br>sel Range Orga<br>Result<br><50.0 | Qualifier<br>U<br>nics (DRO)<br>Qualifier<br>U                   | RL           50.0           (GC)           RL           50.0   |     | mg/Kg<br>Unit<br>mg/Kg                           |              | Prepared<br>12/05/23 09:30   | Analyzed           12/05/23 13:04  | Dil Fa           |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)  | Result<br><50.0<br>sel Range Orga<br>Result<br><50.0 | Qualifier<br>U<br>nics (DRO)<br>Qualifier<br>U<br>U              | RL           50.0           (GC)           RL           50.0   |     | mg/Kg<br>Unit<br>mg/Kg                           |              | Prepared<br>12/05/23 09:30   | Analyzed           12/05/23 13:04  | Dil Fa           |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)  | Result           <50.0                               | Qualifier<br>U<br>nics (DRO)<br>Qualifier<br>U<br>U              | RL           50.0           (GC)           RL           50.0           50.0  |     | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg                  |              | Prepared<br>12/05/23 09:30<br>12/05/23 09:30   | Analyzed           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04  | Dil Fa           |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over  | Result           <50.0                               | Qualifier<br>U<br>nics (DRO)<br>Qualifier<br>U<br>U<br>U         | RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0  |     | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg                  |              | Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30   | Analyzed           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04  | Dil Fa           |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate  | Result           <50.0                               | Qualifier<br>U<br>nics (DRO)<br>Qualifier<br>U<br>U<br>U         | RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0           50.0           Limits  |     | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg                  |              | Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared   | Analyzed           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           Analyzed                          | Dil Fac          |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>p-Terphenyl<br>Method: EPA 300.0 - Anions, Ion           | Result           <50.0                               | Qualifier<br>U<br>Qualifier<br>U<br>U<br>Qualifier               | RL         50.0         (GC)         RL         50.0         50.0         50.0         50.0         50.0         50.0         70.130         70.130         70.130         70.130  | MDL | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg<br>mg/Kg         | <u>D</u>     | Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared<br>12/05/23 09:30<br>12/05/23 09:30             | Analyzed           12/05/23 13:04           Analyzed           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04 | Dil Fac          |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate<br>I-Chlorooctane<br>p-Terphenyl  | Result           <50.0                               | Qualifier<br>U<br>nics (DRO)<br>Qualifier<br>U<br>U<br>Qualifier | RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           6           RL |     | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg<br>mg/Kg         |              | Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared<br>12/05/23 09:30                               | 12/05/23 13:04<br>Analyzed<br>12/05/23 13:04<br>12/05/23 13:04<br>12/05/23 13:04<br><i>Analyzed</i><br>12/05/23 13:04<br>Analyzed  | Dil Fac          |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>p-Terphenyl<br>Method: EPA 300.0 - Anions, Ion           | Result           <50.0                               | Qualifier<br>U<br>Qualifier<br>U<br>U<br>Qualifier               | RL         50.0         (GC)         RL         50.0         50.0         50.0         50.0         50.0         50.0         70.130         70.130         70.130         70.130  | MDL | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg<br>mg/Kg         | <u>D</u>     | Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared<br>12/05/23 09:30<br>12/05/23 09:30             | Analyzed           12/05/23 13:04           Analyzed           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04           12/05/23 13:04 | Dil Fa           |
| Analyte<br>Total TPH<br>Method: SW846 8015B NM - Dies<br>Analyte<br>Gasoline Range Organics<br>GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)<br>DII Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>p-Terphenyl<br>Method: EPA 300.0 - Anions, Ion<br>Analyte | Result           <50.0                               | Qualifier<br>U<br>Qualifier<br>U<br>U<br>Qualifier               | RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           6           RL | MDL | mg/Kg<br>Unit<br>mg/Kg<br>mg/Kg<br>mg/Kg<br>Unit | <u>D</u>     | Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared | 12/05/23 13:04<br>Analyzed<br>12/05/23 13:04<br>12/05/23 13:04<br>12/05/23 13:04<br><i>Analyzed</i><br>12/05/23 13:04<br>Analyzed  | Dil Fa<br>Dil Fa |

| Method: SW846 8021B - Volati | le Organic Comp | ounds (GC | )        |     |       |   |                |                |         |
|------------------------------|-----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte                      | Result          | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene                      | < 0.00199       | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 19:56 | 1       |
| Toluene                      | <0.00199        | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 19:56 | 1       |
| Ethylbenzene                 | <0.00199        | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 19:56 | 1       |
| m-Xylene & p-Xylene          | <0.00398        | U         | 0.00398  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 19:56 | 1       |
| o-Xylene                     | <0.00199        | U         | 0.00199  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 19:56 | 1       |
| Xylenes, Total               | <0.00398        | U         | 0.00398  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 19:56 | 1       |
| Surrogate                    | %Recovery       | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 94              |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 19:56 | 1       |

Eurofins Midland

12/04/23 14:30 12/04/23 19:56

Page 89 of 133

Job ID: 880-36411-1

# Lab Sample ID: 880-36411-5

Matrix: Solid

5

1 1

1,4-Difluorobenzene (Surr)

70 - 130

113

Job ID: 880-36411-1

Matrix: Solid

5

#### Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

| Client | Sample | ID: | SW-1 | (5') |
|--------|--------|-----|------|------|
|        |        |     |      |      |

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00398      | U           | 0.00398  |     | mg/Kg |   |                | 12/04/23 19:56 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organ   | ics (DRO) ( | GC)      |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <50.1         | U           | 50.1     |     | mg/Kg |   |                | 12/05/23 13:25 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.1         | U           | 50.1     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 13:25 | 1       |
| (GRO)-C6-C10                      |               |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.1         | U           | 50.1     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 13:25 | 1       |
| C10-C28)                          |               |             |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.1         | U           | 50.1     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 13:25 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 158           | S1+         | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 13:25 | 1       |
| o-Terphenyl                       | 136           | S1+         | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 13:25 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hv - Solubl | e        |     |       |   |                |                |         |
| Analyte                           |               | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 27.2          |             | 5.00     |     | mg/Kg |   |                | 12/04/23 23:28 | 1       |

# Client Sample ID: SW-2 (5')

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

# Lab Sample ID: 880-36411-7 Matrix: Solid

# Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |
| 1,4-Difluorobenzene (Surr)  | 111       |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 20:16 | 1       |

| < 0.00396 |           |  |     |                         |                              |  |   |  |
|-----------|-----------|--|-----|-------------------------|------------------------------|--|---|--|
| 0.00000   | U         | 0.00396  |     | mg/Kg                   |                              |  | 12/04/23 20:16  | 1  |
| Result    | Qualifier | RL   | MDL | Unit                    | D                            | Prepared   | Analyzed  | Dil Fa   |
| <50.1     | U         | 50.1   |     | mg/Kg                   |                              |  | 12/05/23 13:47  | 1  |
|           | Result    | nge Organics (DRO) (O<br>Result Qualifier<br><50.1 U |     | Result Qualifier RL MDL | Result Qualifier RL MDL Unit | Result         Qualifier         RL         MDL         Unit         D | Result         Qualifier         RL         MDL         Unit         D         Prepared | Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed |

| Analyte                     | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics     | <50.1  | U         | 50.1 |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 13:47 | 1       |
| (GRO)-C6-C10                |        |           |      |     |       |   |                |                |         |
| Diesel Range Organics (Over | <50.1  | U         | 50.1 |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 13:47 | 1       |
| C10-C28)                    |        |           |      |     |       |   |                |                |         |

Eurofins Midland

Lab Sample ID: 880-36411-6

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

# Client Sample ID: SW-2 (5')

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

| Analyte                           | Result       | Qualifier  | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac   |
|-----------------------------------|--------------|------------|----------|-----|-------|---|----------------|----------------|-----------|
| Oll Range Organics (Over C28-C36) | <50.1        | U          | 50.1     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 13:47 | 1         |
| Surrogate                         | %Recovery    | Qualifier  | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac   |
| 1-Chlorooctane                    | 151          | S1+        | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 13:47 | 1         |
| o-Terphenyl                       | 133          | S1+        | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 13:47 | 1         |
| Chloride                          | <4.95        | U          | 4.95     |     | mg/Kg |   |                | 12/04/23 23:33 |           |
| -                                 | <4.95        | U          | 4.95     |     | mg/Kg |   |                |                | 1         |
| Client Sample ID: SW-3 (5')       |              |            |          |     |       |   | Lab Sam        | ple ID: 880-3  | 6411-8    |
| Date Collected: 12/01/23 00:00    |              |            |          |     |       |   |                | Matri          | ix: Solid |
| Date Received: 12/04/23 13:52     |              |            |          |     |       |   |                |                |           |
| -                                 |              |            |          |     |       |   |                |                |           |
| Method: SW846 8021B - Volatile    | Organic Comp | ounds (GC) | l        |     |       |   |                |                |           |
|                                   |              | Ovelifier  | RL       | MDI | Unit  | D | Dranavad       | Analyzad       | Dil Fac   |
| Analyte                           | Result       | Qualifier  | RL       | WDL | Unit  | U | Prepared       | Analyzed       | וט        |

| Benzene                     | < 0.00199 | U         | 0.00199  | mg/Kg | 12/04/23 14:30 | 12/04/23 20:37 | 1       |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|---------|
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg | 12/04/23 14:30 | 12/04/23 20:37 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg | 12/04/23 14:30 | 12/04/23 20:37 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg | 12/04/23 14:30 | 12/04/23 20:37 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg | 12/04/23 14:30 | 12/04/23 20:37 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg | 12/04/23 14:30 | 12/04/23 20:37 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 93        |           | 70 - 130 |       | 12/04/23 14:30 | 12/04/23 20:37 | 1       |
| 1,4-Difluorobenzene (Surr)  | 120       |           | 70 - 130 |       | 12/04/23 14:30 | 12/04/23 20:37 | 1       |

# Method: TAL SOP 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 |   |          | 12/04/23 20:37 | 1       |

| Method: SW846 8015 NM - Diesel R | ange Organi | ics (DRO) (0 | GC)  |     |       |   |          |                |         |
|----------------------------------|-------------|--------------|------|-----|-------|---|----------|----------------|---------|
| Analyte                          | Result      | Qualifier    | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                        | <50.4       | U            | 50.4 |     | mg/Kg |   |          | 12/05/23 14:09 | 1       |

#### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte                           | Result       | Qualifier    | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------------|--------------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <50.4        | U            | 50.4     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 14:09 | 1       |
| (GRO)-C6-C10                      |              |              |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.4        | U            | 50.4     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 14:09 | 1       |
| C10-C28)                          |              |              |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.4        | U            | 50.4     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 14:09 | 1       |
| Surrogate                         | %Recovery    | Qualifier    | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 122          |              | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 14:09 | 1       |
| o-Terphenyl                       | 102          |              | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 14:09 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp | ohy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result       | Qualifier    | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | <4.96        | U            | 4.96     |     | mg/Kg |   |                | 12/04/23 23:39 | 1       |

Eurofins Midland

Page 91 of 133

Job ID: 880-36411-1

# Lab Sample ID: 880-36411-7 Matrix: Solid

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

## Client Sample ID: SW-4 (5') Date Collected: 12/01/23 00:00

Date Received: 12/04/23 13:52

| Analyte  | Result  | Qualifier                                    | RL  | MDL | Unit          | D        | Prepared   | Analyzed  | Dil Fac      |
|--|---|--|---|-----|---------------|----------|--|---|--------------|
| Benzene  | <0.00200  | U  | 0.00200   |     | mg/Kg         |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| Toluene  | <0.00200  | U  | 0.00200   |     | mg/Kg         |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| Ethylbenzene   | <0.00200  | U  | 0.00200   |     | mg/Kg         |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| m-Xylene & p-Xylene  | <0.00399  | U  | 0.00399   |     | mg/Kg         |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| o-Xylene   | <0.00200  | U  | 0.00200   |     | mg/Kg         |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| Xylenes, Total   | <0.00399  | U  | 0.00399   |     | mg/Kg         |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| Surrogate  | %Recovery   | Qualifier                                    | Limits  |     |               |          | Prepared   | Analyzed  | Dil Fac      |
| 4-Bromofluorobenzene (Surr)  | 98  |  | 70 - 130  |     |               |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| 1,4-Difluorobenzene (Surr)   | 122   |  | 70 - 130  |     |               |          | 12/04/23 14:30   | 12/04/23 20:57  | 1            |
| Method: TAL SOP Total BTEX - To  | tal BTEX Cal  | culation                                     |   |     |               |          |  |   |              |
| Analyte  | Result  | Qualifier                                    | RL  | MDL | Unit          | D        | Prepared   | Analyzed  | Dil Fac      |
| Total BTEX   | <0.00399  | U  | 0.00399   |     | mg/Kg         |          |  | 12/04/23 20:57  | 1            |
| _<br>Method: SW846 8015 NM - Diesel  | Range Organ   | ics (DRO) (                                  | GC)   |     |               |          |  |   |              |
| Analyte  |   | Qualifier                                    | RL  | MDL | Unit          | D        | Prepared   | Analyzed  | Dil Fac      |
| Total TPH  | <50.2   | U  | 50.2  |     | mg/Kg         |          |  | 12/05/23 14:31  | 1            |
| -<br>Method: SW846 8015B NM - Diese  | el Range Orga   | nics (DRO)                                   | (GC)  |     |               |          |  |   |              |
| Analyte  |   | Qualifier                                    | RL  | MDL | Unit          | D        | Prepared   | Analyzed  | Dil Fac      |
| Gasoline Range Organics  | <50.2   | U  | 50.2  |     | mg/Kg         |          | 12/05/23 09:30   | 12/05/23 14:31  | 1            |
| (GRO)-C6-C10   |   |  |   |     |               |          |  |   |              |
| (  |   |  |   |     | mg/Kg         |          | 12/05/23 09:30   | 12/05/23 14:31  | 1            |
| Diesel Range Organics (Over  | <50.2   | U  | 50.2  |     | mg/rtg        |          | 12/05/23 09.30   | 12/03/23 14:31  |              |
|  | <50.2<br><50.2  |  | 50.2<br>50.2  |     | mg/Kg         |          | 12/05/23 09:30   | 12/05/23 14:31  | 1            |
| Diesel Range Organics (Over<br>C10-C28)  |   | U  |   |     |               |          |  |   | 1<br>Dil Fac |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)   | <50.2   | U<br><b>Qualifier</b>                        | 50.2  |     |               |          | 12/05/23 09:30   | 12/05/23 14:31  |              |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate  | <50.2<br><b>%Recovery</b>   | U<br><b>Qualifier</b>                        | 50.2<br>Limits  |     |               |          | 12/05/23 09:30<br>Prepared   | 12/05/23 14:31<br>Analyzed  | Dil Fac      |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl   | <50.2<br><b>%Recovery</b><br>137<br>115                           | U<br><b>Qualifier</b><br>S1+                 | 50.2<br>Limits<br>70 - 130<br>70 - 130                          |     |               |          | 12/05/23 09:30<br><b>Prepared</b><br>12/05/23 09:30                        | 12/05/23 14:31<br>Analyzed<br>12/05/23 14:31  | Dil Fac      |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl   | <50.2<br><u>%Recovery</u><br>137<br>115<br>Chromatograp           | U<br><b>Qualifier</b><br>S1+                 | 50.2<br>Limits<br>70 - 130<br>70 - 130                          | MDL | mg/Kg         | D        | 12/05/23 09:30<br><b>Prepared</b><br>12/05/23 09:30                        | 12/05/23 14:31<br>Analyzed<br>12/05/23 14:31  | Dil Fac      |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl<br>Method: EPA 300.0 - Anions, Ion C                        | <50.2<br><u>%Recovery</u><br>137<br>115<br>Chromatograp           | U<br><u>Qualifier</u><br>S1+<br>Dhy - Solubl | 50.2<br><u>Limits</u><br>70 - 130<br>70 - 130<br><b>e</b>       | MDL | mg/Kg         | D        | 12/05/23 09:30<br><b>Prepared</b><br>12/05/23 09:30<br>12/05/23 09:30      | 12/05/23 14:31<br><b>Analyzed</b><br>12/05/23 14:31<br>12/05/23 14:31   | Dil Fac      |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl<br>Method: EPA 300.0 - Anions, Ion (<br>Analyte             | <50.2<br><u>%Recovery</u><br>137<br>115<br>Chromatograp<br>Result | U<br><u>Qualifier</u><br>S1+<br>Dhy - Solubl | 50.2<br><u>Limits</u><br>70 - 130<br>70 - 130<br>e<br><u>RL</u> | MDL | mg/Kg<br>Unit | <u>D</u> | 12/05/23 09:30<br>Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared | 12/05/23 14:31<br>Analyzed<br>12/05/23 14:31<br>12/05/23 14:31<br>Analyzed                                    | Dil Fac      |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)<br>Surrogate<br>1-Chlorooctane<br>o-Terphenyl<br>Method: EPA 300.0 - Anions, Ion (<br>Analyte<br>Chloride | <50.2<br><u>%Recovery</u><br>137<br>115<br>Chromatograp<br>Result | U<br><u>Qualifier</u><br>S1+<br>Dhy - Solubl | 50.2<br><u>Limits</u><br>70 - 130<br>70 - 130<br>e<br><u>RL</u> | MDL | mg/Kg<br>Unit | D        | 12/05/23 09:30<br>Prepared<br>12/05/23 09:30<br>12/05/23 09:30<br>Prepared | 12/05/23 14:31<br>Analyzed<br>12/05/23 14:31<br>12/05/23 14:31<br>Analyzed<br>12/04/23 23:45<br>le ID: 880-36 | Dil Fac      |

### Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 |     |       |   | 12/04/23 14:30 | 12/04/23 21:18 | 1       |

Eurofins Midland

Page 92 of 133

Job ID: 880-36411-1

# Lab Sample ID: 880-36411-9

Matrix: Solid

5

Job ID: 880-36411-1

Lab Sample ID: 880-36411-10

#### Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

| Client | Samp | ole | ID: | SW-5 | (5') |
|--------|------|-----|-----|------|------|
|        |      |     |     |      |      |

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00402      | U           | 0.00402  |     | mg/Kg |   |                | 12/04/23 21:18 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organi  | ics (DRO) ( | GC)      |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <49.9         | U           | 49.9     |     | mg/Kg |   |                | 12/05/23 15:15 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <49.9         | U           | 49.9     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 15:15 | 1       |
| (GRO)-C6-C10                      |               |             |          |     |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.9         | U           | 49.9     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 15:15 | 1       |
| C10-C28)                          |               |             |          |     |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <49.9         | U           | 49.9     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 15:15 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 211           | S1+         | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 15:15 | 1       |
| o-Terphenyl                       | 177           | S1+         | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 15:15 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 51.8          |             | 5.02     |     | mg/Kg |   |                | 12/04/23 23:50 | 1       |

# Client Sample ID: SW-6 (5')

Date Collected: 12/01/23 00:00

# Lab Sample ID: 880-36411-11 Matrix: Solid

# Method: SW846 8021B - Volatile Organic Compounds (GC)

| Wethou. 50040 0021D - Volatil | c organic oomp |           | /        |     |       |   |                |                |         |
|-------------------------------|----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte                       | Result         | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene                       | <0.00198       | U         | 0.00198  |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |
| Toluene                       | <0.00198       | U         | 0.00198  |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |
| Ethylbenzene                  | <0.00198       | U         | 0.00198  |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |
| m-Xylene & p-Xylene           | <0.00396       | U         | 0.00396  |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |
| o-Xylene                      | <0.00198       | U         | 0.00198  |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |
| Xylenes, Total                | <0.00396       | U         | 0.00396  |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |
| Surrogate                     | %Recovery      | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)   | 100            |           | 70 - 130 |     |       |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |
| 1,4-Difluorobenzene (Surr)    | 82             |           | 70 - 130 |     |       |   | 12/04/23 15:34 | 12/05/23 07:51 | 1       |

#### Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier MDL Unit RL D Prepared Analyzed Dil Fac Total BTEX <0.00396 U 0.00396 mg/Kg 12/05/23 07:51 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total TPH <49.7 U 12/05/23 15:37 49.7 mg/Kg 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

|                             |        |           | X = 7 |     |       |   |                |                |         |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Analyte                     | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics     | <49.7  | U         | 49.7  |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 15:37 | 1       |
| (GRO)-C6-C10                |        |           |       |     |       |   |                |                |         |
| Diesel Range Organics (Over | <49.7  | U         | 49.7  |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 15:37 | 1       |
| C10-C28)                    |        |           |       |     |       |   |                |                |         |

**Eurofins Midland** 

Matrix: Solid

5

Date Received: 12/04/23 13:52

### Client Sample ID: SW-6 (5') Date Collected: 12/01/23 00:00

Date Received: 12/04/23 13:52

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) |
|---|
|---|

| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <49.7        | U           | 49.7     |     | mg/Kg |   | 12/05/23 09:30 | 12/05/23 15:37 | 1       |
| Surrogate                         | %Recovery    | Qualifier   | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 135          | S1+         | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 15:37 | 1       |
| o-Terphenyl                       | 116          |             | 70 - 130 |     |       |   | 12/05/23 09:30 | 12/05/23 15:37 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp | hy - Solubl | e        |     |       |   |                |                |         |
| Analyte                           | Result       | Qualifier   | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 25.2         |             | 5.00     |     | mg/Kg |   |                | 12/04/23 22:41 | 1       |

Job ID: 880-36411-1

Matrix: Solid

Page 94 of 133

Lab Sample ID: 880-36411-11

# **Surrogate Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

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

|                      |                        | BFB1     | DFBZ1    |
|----------------------|------------------------|----------|----------|
| Lab Sample ID        | Client Sample ID       | (70-130) | (70-130) |
| 880-36273-A-41-B MS  | Matrix Spike           | 163 S1+  | 112      |
| 880-36273-A-41-C MSD | Matrix Spike Duplicate | 171 S1+  | 101      |
| 880-36380-A-4-C MS   | Matrix Spike           | 99       | 97       |
| 880-36380-A-4-D MSD  | Matrix Spike Duplicate | 97       | 106      |
| 880-36411-1          | CS-1 (5')              | 83       | 99       |
| 880-36411-2          | CS-2 (5')              | 83       | 111      |
| 880-36411-3          | CS-3 (5')              | 90       | 114      |
| 880-36411-4          | CS-4 (5')              | 96       | 109      |
| 880-36411-5          | CS-5 (5')              | 101      | 107      |
| 880-36411-6          | SW-1 (5')              | 94       | 113      |
| 880-36411-7          | SW-2 (5')              | 94       | 111      |
| 880-36411-8          | SW-3 (5')              | 93       | 120      |
| 880-36411-9          | SW-4 (5')              | 98       | 122      |
| 880-36411-10         | SW-5 (5')              | 105      | 110      |
| 880-36411-11         | SW-6 (5')              | 100      | 82       |
| LCS 880-68224/1-A    | Lab Control Sample     | 67 S1-   | 108      |
| LCS 880-68308/1-A    | Lab Control Sample     | 142 S1+  | 105      |
| LCSD 880-68224/2-A   | Lab Control Sample Dup | 103      | 97       |
| LCSD 880-68308/2-A   | Lab Control Sample Dup | 107      | 100      |
| MB 880-68223/5-A     | Method Blank           | 63 S1-   | 89       |
| MB 880-68224/5-A     | Method Blank           | 112      | 153 S1+  |
| MB 880-68308/5-A     | Method Blank           | 65 S1-   | 90       |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

|                     |                        |          |          | Percent Surrogate Reco |
|---------------------|------------------------|----------|----------|------------------------|
|                     |                        | 1CO1     | OTPH1    |                        |
| Lab Sample ID       | Client Sample ID       | (70-130) | (70-130) |                        |
| 880-36387-A-4-F MS  | Matrix Spike           | 151 S1+  | 107      |                        |
| 880-36387-A-4-G MSD | Matrix Spike Duplicate | 149 S1+  | 106      |                        |
| 880-36411-1         | CS-1 (5')              | 135 S1+  | 119      |                        |
| 880-36411-2         | CS-2 (5')              | 146 S1+  | 127      |                        |
| 880-36411-3         | CS-3 (5')              | 126      | 112      |                        |
| 880-36411-4         | CS-4 (5')              | 129      | 112      |                        |
| 880-36411-5         | CS-5 (5')              | 126      | 112      |                        |
| 880-36411-6         | SW-1 (5')              | 158 S1+  | 136 S1+  |                        |
| 880-36411-7         | SW-2 (5')              | 151 S1+  | 133 S1+  |                        |
| 880-36411-8         | SW-3 (5')              | 122      | 102      |                        |
| 880-36411-9         | SW-4 (5')              | 137 S1+  | 115      |                        |
| 880-36411-10        | SW-5 (5')              | 211 S1+  | 177 S1+  |                        |
| 880-36411-11        | SW-6 (5')              | 135 S1+  | 116      |                        |
| LCS 880-68386/2-A   | Lab Control Sample     | 114      | 115      |                        |
| LCSD 880-68386/3-A  | Lab Control Sample Dup | 112      | 102      |                        |
|                     | Method Blank           | 192 S1+  | 183 S1+  |                        |

Prep Type: Total/NA

Prep Type: Total/NA

# **Surrogate Summary**

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23) 1CO = 1-Chlorooctane OTPH = o-Terphenyl Job ID: 880-36411-1

# **QC Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

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

| Lab Sample ID: MB 880-6822  | 23/ <b>5-A</b>                          |              |                      |            |      |          |       |     |          | Client Sa   | mple ID: N  | lethod | l Blank |
|-----------------------------|---|--------------|----------------------|------------|------|----------|-------|-----|----------|-------------|-------------|--------|---------|
| Matrix: Solid               |   |              |                      |            |      |          |       |     |          |             | Prep Ty     | pe: To | otal/NA |
| Analysis Batch: 68204       |   |              |                      |            |      |          |       |     |          |             | Prep I      | Batch: | 68223   |
|                             | ME                                      | B MB         |                      |            |      |          |       |     |          |             |             |        |         |
| Analyte                     |   | t Qualifier  | RL                   | . <u> </u> | IDL  | Unit     |       | D   | P        | repared     | Analyze     | d      | Dil Fac |
| Benzene                     | <0.00200                                | ) U          | 0.00200              | )          |      | mg/Kg    |       |     | 12/0     | 4/23 10:00  | 12/04/23 12 | 2:27   | 1       |
| Toluene                     | <0.00200                                | ) U          | 0.00200              | )          |      | mg/Kg    |       |     | 12/0     | 4/23 10:00  | 12/04/23 12 | 2:27   | 1       |
| Ethylbenzene                | <0.00200                                | ) U          | 0.00200              | )          |      | mg/Kg    |       |     | 12/0     | 4/23 10:00  | 12/04/23 12 | 2:27   | 1       |
| m-Xylene & p-Xylene         | <0.00400                                | ) U          | 0.00400              | )          |      | mg/Kg    |       |     | 12/0     | 4/23 10:00  | 12/04/23 12 | 2:27   | 1       |
| o-Xylene                    | <0.00200                                | ) U          | 0.00200              | )          |      | mg/Kg    |       |     | 12/0     | 4/23 10:00  | 12/04/23 12 | 2:27   | 1       |
| Xylenes, Total              | <0.00400                                | ) U          | 0.00400              | )          |      | mg/Kg    |       |     | 12/0     | 4/23 10:00  | 12/04/23 12 | 2:27   | 1       |
|                             | МЕ                                      | 3 MB         |                      |            |      |          |       |     |          |             |             |        |         |
| Surrogate                   | %Recovery                               |              | Limits               |            |      |          |       |     | P        | repared     | Analyze     | d      | Dil Fac |
| 4-Bromofluorobenzene (Surr) |   |              | 70 - 130             | -          |      |          |       |     |          | 4/23 10:00  | 12/04/23 1  |        | 1       |
| 1,4-Difluorobenzene (Surr)  | 8                                       |              | 70 - 130             |            |      |          |       |     |          | 4/23 10:00  | 12/04/23 1  |        | 1       |
|                             | 0.                                      | 2            | 10 - 150             |            |      |          |       |     | 12/0     | 4/23 10.00  | 12/04/23 1  | 2.21   | 1       |
| Lab Sample ID: MB 880-6822  | 24/5-A                                  |              |                      |            |      |          |       |     |          | Client Sa   | mple ID: N  | lethod | l Blank |
| Matrix: Solid               |   |              |                      |            |      |          |       |     |          |             | Prep Ty     |        |         |
| Analysis Batch: 68206       |   |              |                      |            |      |          |       |     |          |             |             |        | 68224   |
| ·                           | ME                                      | B MB         |                      |            |      |          |       |     |          |             |             |        |         |
| Analyte                     | Resul                                   | t Qualifier  | RL                   |            | /IDL | Unit     |       | D   | Р        | repared     | Analyze     | d      | Dil Fac |
| Benzene                     | <0.00200                                |              | 0.00200              |            |      | mg/Kg    |       | _   |          | 4/23 10:21  | 12/04/23 12 |        | 1       |
| Toluene                     | <0.00200                                |              | 0.00200              |            |      | mg/Kg    |       |     |          | 4/23 10:21  | 12/04/23 12 |        | 1       |
| Ethylbenzene                | <0.00200                                |              | 0.00200              |            |      | mg/Kg    |       |     |          | 4/23 10:21  | 12/04/23 12 |        | 1       |
| m-Xylene & p-Xylene         | <0.00400                                |              | 0.00400              |            |      | mg/Kg    |       |     |          | 4/23 10:21  | 12/04/23 12 |        | 1       |
| o-Xylene                    | <0.00200                                |              | 0.00200              |            |      | mg/Kg    |       |     |          | 4/23 10:21  | 12/04/23 12 |        | 1       |
| Xylenes, Total              | <0.00400                                |              | 0.00400              |            |      | mg/Kg    |       |     |          | 4/23 10:21  | 12/04/23 12 |        | 1       |
|                             | -0.00+00                                | , 0          | 0.00400              |            |      | iiig/itg |       |     | 12/0     | -1/20 10.21 | 12/04/20 12 | 2.01   |         |
|                             | ME                                      | B MB         |                      |            |      |          |       |     |          |             |             |        |         |
| Surrogate                   | %Recovery                               | Qualifier    | Limits               | _          |      |          |       |     | P        | repared     | Analyze     | d      | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 11:                                     | 2            | 70 - 130             |            |      |          |       |     | 12/0     | 4/23 10:21  | 12/04/23 1  | 2:51   | 1       |
| 1,4-Difluorobenzene (Surr)  | 153                                     | 3 S1+        | 70 - 130             |            |      |          |       |     | 12/0     | 4/23 10:21  | 12/04/23 1  | 2:51   | 1       |
| -                           |   |              |                      |            |      |          |       | _   |          |             |             |        |         |
| Lab Sample ID: LCS 880-682  | 24/1-A                                  |              |                      |            |      |          |       | С   | lient    | Sample      | ID: Lab Co  |        |         |
| Matrix: Solid               |   |              |                      |            |      |          |       |     |          |             | Prep Ty     |        |         |
| Analysis Batch: 68206       |   |              |                      |            |      |          |       |     |          |             |             | Batch: | 68224   |
|                             |   |              | Spike                | LCS        |      |          |       |     |          |             | %Rec        |        |         |
| Analyte                     |   |              | Added                | Result     | Qual | ifier    | Unit  |     | <u>D</u> | %Rec        | Limits      |        |         |
| Benzene                     |   |              | 0.100                | 0.08186    |      |          | mg/Kg |     |          | 82          | 70 - 130    |        |         |
| Toluene                     |   |              | 0.100                | 0.08792    |      |          | mg/Kg |     |          | 88          | 70 - 130    |        |         |
| Ethylbenzene                |   |              | 0.100                | 0.07040    |      |          | mg/Kg |     |          | 70          | 70 - 130    |        |         |
| m-Xylene & p-Xylene         |   |              | 0.200                | 0.1509     |      |          | mg/Kg |     |          | 75          | 70 - 130    |        |         |
| o-Xylene                    |   |              | 0.100                | 0.07124    |      |          | mg/Kg |     |          | 71          | 70 - 130    |        |         |
|                             | LCS LC                                  | s            |                      |            |      |          |       |     |          |             |             |        |         |
| Surrogate                   |   | o<br>alifier | Limits               |            |      |          |       |     |          |             |             |        |         |
| 4-Bromofluorobenzene (Surr) | -56000000000000000000000000000000000000 |              | 70 - 130             |            |      |          |       |     |          |             |             |        |         |
| 1,4-Difluorobenzene (Surr)  | 108                                     |              | 70 - 130<br>70 - 130 |            |      |          |       |     |          |             |             |        |         |
|                             | 100                                     |              |                      |            |      |          |       |     |          |             |             |        |         |
| Lab Sample ID: LCSD 880-68  | 3224/2-A                                |              |                      |            |      |          | Cli   | ent | Sam      | ple ID: L   | ab Control  | Samp   | le Dup  |
| Matrix: Solid               |   |              |                      |            |      |          |       |     |          |             | Prep Ty     |        | -       |
| Analysis Batch: 68206       |   |              |                      |            |      |          |       |     |          |             |             |        | 68224   |
|                             |   |              | Spike                | LCSD       | LCS  | D        |       |     |          |             | %Rec        |        | RPD     |
| • • •                       |   |              | Added                | Result     |      |          | Unit  |     | D        | %Rec        | Limits      | RPD    | Limit   |
| Analyte                     |   |              |                      | Regult     |      |          |       |     |          |             |             |        |         |

Job ID: 880-36411-1

# **QC Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23) Job ID: 880-36411-1

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

| Lab Sample ID: LCSD 880-6   | 8224/2-A  |           |          |         |           | Clier | nt Sam | ple ID: I | Lab Contro |          |       |
|-----------------------------|-----------|-----------|----------|---------|-----------|-------|--------|-----------|------------|----------|-------|
| Matrix: Solid               |           |           |          |         |           |       |        |           |            | уре: То  |       |
| Analysis Batch: 68206       |           |           |          |         |           |       |        |           |            | Batch:   |       |
|                             |           |           | Spike    | LCSD    | LCSD      |       |        |           | %Rec       |          | RPI   |
| Analyte                     |           |           | Added    | Result  | Qualifier | Unit  | D      | %Rec      | Limits     | RPD      | Limi  |
| Toluene                     |           |           | 0.100    | 0.08966 |           | mg/Kg |        | 90        | 70 - 130   | 2        | 3     |
| Ethylbenzene                |           |           | 0.100    | 0.09665 |           | mg/Kg |        | 97        | 70 - 130   | 31       | 3     |
| m-Xylene & p-Xylene         |           |           | 0.200    | 0.2144  |           | mg/Kg |        | 107       | 70 - 130   | 35       | 35    |
| o-Xylene                    |           |           | 0.100    | 0.09987 |           | mg/Kg |        | 100       | 70 - 130   | 33       | 3     |
|                             | LCSD      | LCSD      |          |         |           |       |        |           |            |          |       |
| Surrogate                   | %Recovery | Qualifier | Limits   |         |           |       |        |           |            |          |       |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 |         |           |       |        |           |            |          |       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |         |           |       |        |           |            |          |       |
| Lab Sample ID: 880-36380-4  | A-4-C MS  |           |          |         |           |       |        | Client    | Sample ID  | : Matrix | Spike |
| Matrix: Solid               |           |           |          |         |           |       |        |           |            | ype: To  |       |
| Analysis Batch: 68206       |           |           |          |         |           |       |        |           |            | Batch:   |       |
|                             | Sample    | Sample    | Spike    | MS      | MS        |       |        |           | %Rec       | Daton    | 0011- |
| Analyte                     | •         | Qualifier | Added    |         | Qualifier | Unit  | D      | %Rec      | Limits     |          |       |
| Benzene                     | <0.00201  | U         | 0.0996   | 0.08775 |           | mg/Kg |        | 88        | 70 - 130   |          |       |
| Toluene                     | < 0.00201 |           | 0.0996   | 0.08890 |           | mg/Kg |        | 89        | 70 - 130   |          |       |
| Ethylbenzene                | < 0.00201 |           | 0.0996   | 0.08145 |           | mg/Kg |        | 82        | 70 - 130   |          |       |
| m-Xylene & p-Xylene         | < 0.00402 |           | 0.199    | 0.1792  |           | mg/Kg |        | 90        | 70 - 130   |          |       |
| o-Xylene                    | < 0.00201 |           | 0.0996   | 0.08598 |           | mg/Kg |        | 86        | 70 - 130   |          |       |
|                             | -0.00201  | 0         | 0.0000   | 0.00000 |           |       |        | 00        | 70-100     |          |       |
|                             | MS        | MS        |          |         |           |       |        |           |            |          |       |

|                             | 1413      | N/S       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |

#### Lab Sample ID: 880-36380-A-4-D MSD Matrix: Solid Analysis Batch: 68206

| Analysis Batch: 66206 |          |           |       |         |           |       |   |      | Prep     | Batch: | 00224 |
|-----------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--------|-------|
|                       | Sample   | Sample    | Spike | MSD     | MSD       |       |   |      | %Rec     |        | RPD   |
| Analyte               | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD    | Limit |
| Benzene               | <0.00201 | U         | 0.100 | 0.1031  |           | mg/Kg |   | 103  | 70 - 130 | 16     | 35    |
| Toluene               | <0.00201 | U         | 0.100 | 0.09492 |           | mg/Kg |   | 95   | 70 - 130 | 7      | 35    |
| Ethylbenzene          | <0.00201 | U         | 0.100 | 0.08704 |           | mg/Kg |   | 87   | 70 - 130 | 7      | 35    |
| m-Xylene & p-Xylene   | <0.00402 | U         | 0.200 | 0.1964  |           | mg/Kg |   | 98   | 70 - 130 | 9      | 35    |
| o-Xylene              | <0.00201 | U         | 0.100 | 0.09548 |           | mg/Kg |   | 95   | 70 - 130 | 10     | 35    |
|                       |          |           |       |         |           |       |   |      |          |        |       |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 |

#### Lab Sample ID: MB 880-68308/5-A Matrix: Solid Analysis Batch: 68204

m-Xylene & p-Xylene

## МВ МВ Analyte Benzene Toluene Ethylbenzene

## **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

| Prep | Batch: | 68224 |  |
|------|--------|-------|--|
| Rec  |        | RPD   |  |

## **Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 68308

| IND      | INID      |         |     |       |   |                |                |         |  |
|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|--|
| Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |  |
| <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 01:48 | 1       |  |
| <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 01:48 | 1       |  |
| <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 01:48 | 1       |  |
| <0.00400 | U         | 0.00400 |     | mg/Kg |   | 12/04/23 15:34 | 12/05/23 01:48 | 1       |  |

Lab Sample ID: MB 880-68308/5-A

Matrix: Solid

Analyte

o-Xylene

Surrogate

Xylenes, Total

Analysis Batch: 68204

# **QC Sample Results**

RL

0.00200

0.00400

Limits

70 - 130

70 - 130

MDL Unit

> mg/Kg mg/Kg

D

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

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

MB MB

< 0.00200

%Recovery

<0.00400 U

Result Qualifier

U

MB MB

65

90

Qualifier

S1-

Page 99 of 133

|   |       |            | Job ID: 880-      | 36411-1  |
|---|-------|------------|-------------------|----------|
|   |       |            |                   |          |
|   |       | Client Sa  | ample ID: Metho   | od Blank |
|   |       |            | ·<br>Prep Type: ` |          |
|   |       |            | Prep Batc         | h: 68308 |
| D | Р     | repared    | Analyzed          | Dil Fac  |
| _ | 12/0  | 4/23 15:34 | 12/05/23 01:48    | 1        |
|   | 12/0  | 4/23 15:34 | 12/05/23 01:48    | 1        |
|   |       |            |                   |          |
|   | P     | repared    | Analyzed          | Dil Fac  |
|   | 12/0  | 4/23 15:34 | 12/05/23 01:48    | 1        |
|   | 12/0  | 4/23 15:34 | 12/05/23 01:48    | 1        |
| С | lient | Sample     | ID: Lab Control   | Sample   |
|   |       |            | Prep Type:        | Total/NA |
|   |       |            | Prep Batc         | h: 68308 |
|   |       |            | %Rec              |          |
|   | D     | %Rec       | Limits            |          |
|   |       | 92         | 70 - 130          |          |
|   |       | 91         | 70 - 130          |          |
|   |       | 91         | 70 - 130          |          |
|   |       | 97         | 70 - 130          |          |
|   |       | 108        | 70 - 130          |          |

Lab Sample ID: LCS 880-68308/1-A Matrix: Solid

#### Analysis Batch: 68204

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

|                     | Spike | LCS     | LCS       |       |   |      | %Rec     |
|---------------------|-------|---------|-----------|-------|---|------|----------|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |
| Benzene             | 0.100 | 0.09187 |           | mg/Kg |   | 92   | 70 - 130 |
| Toluene             | 0.100 | 0.09078 |           | mg/Kg |   | 91   | 70 - 130 |
| Ethylbenzene        | 0.100 | 0.09132 |           | mg/Kg |   | 91   | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1934  |           | mg/Kg |   | 97   | 70 - 130 |
| o-Xylene            | 0.100 | 0.1077  |           | mg/Kg |   | 108  | 70 - 130 |
|                     |       |         |           |       |   |      |          |

|                             | LCS       | LCS       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 142       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 |

#### Lab Sample ID: LCSD 880-68308/2-A Matrix: Solid

#### Analysis Batch: 68204

| Analysis Datch: 00204 |       |         |           |       |   |      | i iep    | Daton. | 00000 |
|-----------------------|-------|---------|-----------|-------|---|------|----------|--------|-------|
|                       | Spike | LCSD    | LCSD      |       |   |      | %Rec     |        | RPD   |
| Analyte               | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD    | Limit |
| Benzene               | 0.100 | 0.08797 |           | mg/Kg |   | 88   | 70 - 130 | 4      | 35    |
| Toluene               | 0.100 | 0.08320 |           | mg/Kg |   | 83   | 70 - 130 | 9      | 35    |
| Ethylbenzene          | 0.100 | 0.08124 |           | mg/Kg |   | 81   | 70 - 130 | 12     | 35    |
| m-Xylene & p-Xylene   | 0.200 | 0.1604  |           | mg/Kg |   | 80   | 70 - 130 | 19     | 35    |
| o-Xylene              | 0.100 | 0.09336 |           | mg/Kg |   | 93   | 70 - 130 | 14     | 35    |
|                       |       |         |           |       |   |      |          |        |       |

|                             | LCSD      | LCSD      |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 |

#### Lab Sample ID: 880-36273-A-41-B MS Matrix: Solid

#### Analysis Batch: 68204 Prep Batch: 68308 MS MS Sample Sample Spike %Rec Qualifier Added Qualifier Analyte Result Result Unit D %Rec Limits 0.0992 0.08565 86 Benzene <0.00200 U 70 - 130 mg/Kg Toluene <0.00200 U 0.0992 0.1083 mg/Kg 109 70 - 130 0.0992 Ethvlbenzene < 0.00200 U 0.1130 mg/Kg 114 70 - 130 m-Xylene & p-Xylene < 0.00400 U 0.198 0.2124 mg/Kg 107 70 - 130 o-Xylene <0.00200 U 0.0992 0.1066 mg/Kg 107 70 - 130

**Eurofins Midland** 

## Prep Type: Total/NA Prep Batch: 68308

Client Sample ID: Lab Control Sample Dup

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

# **QC Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

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

#### Lab Sample ID: 880-36273-A-41-B MS Matrix: Solid

# Analysis Batch: 68204

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 163       | S1+       | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 |

# Lab Sample ID: 880-36273-A-41-C MSD Matrix: Solid

| Analysis Batch: 68204 |  |
|-----------------------|--|
|-----------------------|--|

| Analysis Batch: 68204       |           |           |          |        |           |       |   |      | Prep     | Batch: | 68308 |
|-----------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--------|-------|
|                             | Sample    | Sample    | Spike    | MSD    | MSD       |       |   |      | %Rec     |        | RPD   |
| Analyte                     | Result    | Qualifier | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD    | Limit |
| Benzene                     | <0.00200  | U         | 0.101    | 0.1144 |           | mg/Kg |   | 113  | 70 - 130 | 29     | 35    |
| Toluene                     | <0.00200  | U         | 0.101    | 0.1149 |           | mg/Kg |   | 114  | 70 - 130 | 6      | 35    |
| Ethylbenzene                | <0.00200  | U         | 0.101    | 0.1174 |           | mg/Kg |   | 116  | 70 - 130 | 4      | 35    |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.202    | 0.2401 |           | mg/Kg |   | 119  | 70 - 130 | 12     | 35    |
| o-Xylene                    | <0.00200  | U         | 0.101    | 0.1283 |           | mg/Kg |   | 127  | 70 - 130 | 18     | 35    |
|                             | MSD       | MSD       |          |        |           |       |   |      |          |        |       |
| Surrogate                   | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |        |       |
| 4-Bromofluorobenzene (Surr) | 171       | S1+       | 70 - 130 |        |           |       |   |      |          |        |       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |        |           |       |   |      |          |        |       |

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

| <br>Lab Sample ID: MB 880-68386/1-A   |           |           |          |        |      |        |       |    |      | Client S   | ample ID: Metho | od Blank |
|---------------------------------------|-----------|-----------|----------|--------|------|--------|-------|----|------|------------|-----------------|----------|
| Matrix: Solid                         |           |           |          |        |      |        |       |    |      |            | Prep Type:      |          |
| Analysis Batch: 68368                 |           |           |          |        |      |        |       |    |      |            | Prep Batc       |          |
| -                                     | MB        | MB        |          |        |      |        |       |    |      |            |                 |          |
| Analyte                               | Result    | Qualifier | RL       |        | MDL  | Unit   |       | D  | Р    | repared    | Analyzed        | Dil Fac  |
| Gasoline Range Organics               | <50.0     | U         | 50.0     |        |      | mg/Kg  | 3     |    | 12/0 | 5/23 07:30 | 12/05/23 07:57  | 1        |
| (GRO)-C6-C10                          |           |           |          |        |      |        |       |    |      |            |                 |          |
| Diesel Range Organics (Over           | <50.0     | U         | 50.0     |        |      | mg/Kg  | 9     |    | 12/0 | 5/23 07:30 | 12/05/23 07:57  | 1        |
| C10-C28)                              |           |           |          |        |      |        |       |    |      |            |                 |          |
| Oll Range Organics (Over C28-C36)     | <50.0     | U         | 50.0     |        |      | mg/Kg  | 3     |    | 12/0 | 5/23 07:30 | 12/05/23 07:57  | 1        |
|                                       | МВ        | MB        |          |        |      |        |       |    |      |            |                 |          |
| Surrogate                             | %Recovery | Qualifier | Limits   |        |      |        |       |    | P    | repared    | Analyzed        | Dil Fac  |
| 1-Chlorooctane                        | 192       | S1+       | 70 - 130 |        |      |        |       | -  | 12/0 | 5/23 07:30 | 12/05/23 07:57  | 1        |
| o-Terphenyl                           | 183       | S1+       | 70 - 130 |        |      |        |       |    | 12/0 | 5/23 07:30 | 12/05/23 07:57  | 1        |
| _<br>Lab Sample ID: LCS 880-68386/2-A |           |           |          |        |      |        |       | CI | ient | Sample     | ID: Lab Control | Sample   |
| Matrix: Solid                         |           |           |          |        |      |        |       |    |      |            | Prep Type:      |          |
| Analysis Batch: 68368                 |           |           |          |        |      |        |       |    |      |            | Prep Batc       |          |
|                                       |           |           | Spike    | LCS    | LCS  |        |       |    |      |            | %Rec            |          |
| Analyte                               |           |           | Added    | Result | Qual | lifier | Unit  |    | D    | %Rec       | Limits          |          |
| Gasoline Range Organics               |           |           | 1000     | 1179   |      |        | mg/Kg |    | _    | 118        | 70 - 130        |          |
| (GRO)-C6-C10                          |           |           |          |        |      |        |       |    |      |            |                 |          |

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 114       |           | 70 - 130 |
| o-Terphenyl    | 115       |           | 70 - 130 |

Job ID: 880-36411-1

Prep Type: Total/NA

Page 100 of 133

## **Client Sample ID: Matrix Spike** Prep Type: Total/NA Prep Batch: 68308

**Client Sample ID: Matrix Spike Duplicate** 

**Eurofins Midland** 

Diesel Range Organics (Over

C10-C28)

1000

1191

mg/Kg

119

70 - 130

# **QC Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

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

| Lab Sample ID: LCSD 880-6               | 68386/3-A   |           |          |        |           | Clier | nt Sam  | pie ID: I | Lab Contro  |          |         |
|---|-------------|-----------|----------|--------|-----------|-------|---------|-----------|-------------|----------|---------|
| Matrix: Solid                           |             |           |          |        |           |       |         |           |             | ype: To  |         |
| Analysis Batch: 68368                   |             |           |          |        |           |       |         |           | Prep        | Batch:   | 68386   |
|   |             |           | Spike    | LCSD   | LCSD      |       |         |           | %Rec        |          | RPD     |
| Analyte                                 |             |           | Added    | Result | Qualifier | Unit  | D       | %Rec      | Limits      | RPD      | Limit   |
| Gasoline Range Organics                 |             |           | 1000     | 1178   |           | mg/Kg |         | 118       | 70 - 130    | 0        | 20      |
| (GRO)-C6-C10                            |             |           |          |        |           |       |         |           |             |          |         |
| Diesel Range Organics (Over             |             |           | 1000     | 1161   |           | mg/Kg |         | 116       | 70 - 130    | 3        | 20      |
| C10-C28)                                |             |           |          |        |           |       |         |           |             |          |         |
|   | LCSD        | LCSD      |          |        |           |       |         |           |             |          |         |
| Surrogate                               | %Recovery   | Qualifier | Limits   |        |           |       |         |           |             |          |         |
| 1-Chlorooctane                          |             |           | 70 - 130 |        |           |       |         |           |             |          |         |
| o-Terphenyl                             | 102         |           | 70 - 130 |        |           |       |         |           |             |          |         |
|   |             |           |          |        |           |       |         |           |             |          |         |
| Lab Sample ID: 880-36387-/              | A-4-F MS    |           |          |        |           |       |         | Client    | Sample ID   | : Matrix | Spike   |
| Matrix: Solid                           |             |           |          |        |           |       |         |           | Prep 1      | ype: To  | tal/NA  |
| Analysis Batch: 68368                   |             |           |          |        |           |       |         |           |             | Batch:   |         |
| -                                       | Sample      | Sample    | Spike    | MS     | MS        |       |         |           | %Rec        |          |         |
| Analyte                                 | Result      | Qualifier | Added    | Result | Qualifier | Unit  | D       | %Rec      | Limits      |          |         |
| Gasoline Range Organics                 | <49.8       | U         | 1010     | 1188   |           | mg/Kg |         | 115       | 70 - 130    |          |         |
| (GRO)-C6-C10                            |             |           |          |        |           |       |         |           |             |          |         |
| Diesel Range Organics (Over             | <49.8       | U F1      | 1010     | 1447   | F1        | mg/Kg |         | 141       | 70 - 130    |          |         |
| C10-C28)                                |             |           |          |        |           |       |         |           |             |          |         |
|   | MS          | MS        |          |        |           |       |         |           |             |          |         |
| Surrogate                               | %Recovery   | Qualifier | Limits   |        |           |       |         |           |             |          |         |
| 1-Chlorooctane                          |             | S1+       | 70 - 130 |        |           |       |         |           |             |          |         |
| o-Terphenyl                             | 107         |           | 70 - 130 |        |           |       |         |           |             |          |         |
|   |             |           |          |        |           |       |         |           |             |          |         |
| Lab Sample ID: 880-36387-/              | A-4-G MSD   |           |          |        |           | CI    | ient Sa | ample ID  | : Matrix Sp | oike Dup | olicate |
| Matrix: Solid                           |             |           |          |        |           |       |         |           |             | ype: To  |         |
| Analysis Batch: 68368                   |             |           |          |        |           |       |         |           | Prep        | Batch:   | 68386   |
| -                                       | Sample      | Sample    | Spike    | MSD    | MSD       |       |         |           | %Rec        |          | RPD     |
| Analyte                                 | Result      | Qualifier | Added    | Result | Qualifier | Unit  | D       | %Rec      | Limits      | RPD      | Limit   |
| Gasoline Range Organics                 | <49.8       | U         | 1010     | 1001   |           | mg/Kg |         | 97        | 70 - 130    | 17       | 20      |
| (GRO)-C6-C10                            |             |           | 1010     |        | 54        | 117   |         | 4.40      | 70 400      | <u> </u> | ~       |
| Diesel Range Organics (Over<br>C10-C28) | <49.8       | U F1      | 1010     | 1444   | ⊢1        | mg/Kg |         | 140       | 70 - 130    | 0        | 20      |
| 010-020)                                |             |           |          |        |           |       |         |           |             |          |         |
|   | MSD         | MSD       |          |        |           |       |         |           |             |          |         |
|   | %Pecovery   | Qualifier | Limits   |        |           |       |         |           |             |          |         |
| Surrogate                               | /arrecovery |           |          |        |           |       |         |           |             |          |         |
| Surrogate<br>1-Chlorooctane             |             | S1+       | 70 _ 130 |        |           |       |         |           |             |          |         |

# Method: 300.0 - Anions, Ion Chromatography

| Lab Sample ID<br>Matrix: Solid<br>Analysis Batc | 0: MB 880-68191/1-A<br>h: 68272 |           |      |     |       |   | Client S | ample ID: Metho<br>Prep Type: |         |
|---|---------------------------------|-----------|------|-----|-------|---|----------|-------------------------------|---------|
| -   | МВ                              | МВ        |      |     |       |   |          |                               |         |
| Analyte   | Result                          | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed                      | Dil Fac |
| Chloride  | <5.00                           | U         | 5.00 |     | mg/Kg |   |          | 12/04/23 19:44                | 1       |

| Client: Carmona Resources   |               |                     | c Sampi        | e Resu                 | its             |                 |         |            | Job ID               | : 880-36              | 411-1   |
|---|---------------|---------------------|----------------|------------------------|-----------------|-----------------|---------|------------|----------------------|-----------------------|---------|
| Project/Site: Lusk Deep Unit 025                                      | iH (10.24.23) |                     |                |                        |                 |                 |         |            |                      |                       |         |
| Method: 300.0 - Anions, Io  | on Chromat    | ography (           | Continued)     | )                      |                 |                 |         |            |                      |                       |         |
| Lab Sample ID: LCS 880-6819<br>Matrix: Solid                          | 1/2-A         |                     |                |                        |                 |                 | Client  | t Sample   | e ID: Lab Co<br>Prep | ontrol Sa<br>Type: So |         |
| Analysis Batch: 68272   |               |                     | Spike          | LCS                    | LCS             |                 |         |            | %Rec                 |                       |         |
| Analyte   |               |                     | Added          |                        | Qualifier       | Unit            | D       | %Rec       | Limits               |                       |         |
| Chloride  |               |                     | 250            | 252.5                  |                 | mg/Kg           |         | 101        | 90 - 110             |                       |         |
| Lab Sample ID: LCSD 880-681<br>Matrix: Solid                          | 191/3-A       |                     |                |                        |                 | Clie            | nt San  | nple ID:   | Lab Contro<br>Prep   | l Sample<br>Type: So  |         |
| Analysis Batch: 68272   |               |                     |                |                        |                 |                 |         |            |                      |                       |         |
| -   |               |                     | Spike          | LCSD                   | LCSD            |                 |         |            | %Rec                 |                       | RPD     |
| Analyte   |               |                     | Added          | Result                 | Qualifier       | Unit            | D       | %Rec       | Limits               | RPD                   | Limit   |
| Chloride  |               |                     | 250            | 261.3                  |                 | mg/Kg           |         | 105        | 90 - 110             | 3                     | 20      |
| Lab Sample ID: 890-5709-A-3-<br>Matrix: Solid                         | BMS           |                     |                |                        |                 |                 |         | Client     | Sample ID<br>Prep    | : Matrix<br>Type: So  |         |
| Analysis Batch: 68272   | •             | •                   | • "            |                        |                 |                 |         |            | ~-                   |                       |         |
| Analista  | -             | Sample              | Spike          |                        | MS              | 11              |         | % Dee      | %Rec                 |                       |         |
| Analyte<br>Chloride   |               | Qualifier           | Added          | <b>Result</b><br>434.1 | Qualifier       | _ Unit<br>mg/Kg | D       | %Rec<br>97 | Limits               |                       |         |
|   | 101           |                     | 201            | 404.1                  |                 | mg/rtg          |         | 57         | 501110               |                       |         |
| Lab Sample ID: 890-5709-A-3-<br>Matrix: Solid                         | C MSD         |                     |                |                        |                 | CI              | ient Sa | ample II   | )։ Matrix Տր<br>Prep | oike Dup<br>Type: So  |         |
| Analysis Batch: 68272   | Sample        | Sample              | Spike          | MSD                    | MSD             |                 |         |            | %Rec                 |                       | RPD     |
| Analyte   | -             | Qualifier           | Added          |                        | Qualifier       | Unit            | D       | %Rec       | Limits               | RPD                   | Limit   |
| Chloride  | 191           |                     | 251            | 435.3                  |                 | mg/Kg           |         | 97         | 90 - 110             | 0                     | 20      |
| Lab Sample ID: MB 880-68203<br>Matrix: Solid<br>Analysis Batch: 68314 | 8/1-A         | МВ МВ               |                |                        |                 |                 |         | Client S   | Sample ID:<br>Prep   | Method  <br>Type: So  |         |
| Analyte   | P             | esult Qualifier     |                | RL                     | MDL Unit        | [               | ם ר     | repared    | Analyz               | ha                    | Dil Fac |
| Chloride  |               | <5.00 U             |                | .00                    | mg/K            |                 |         | repared    | 12/04/23             |                       | 1       |
| Lab Sample ID: LCS 880-6820<br>Matrix: Solid<br>Analysis Batch: 68314 | 3/2-A         |                     |                |                        |                 | -               | Client  | t Sample   | e ID: Lab Co<br>Prep | ontrol Sa<br>Type: So |         |
| ······ <b>··········</b> ····················                         |               |                     | Spike          | LCS                    | LCS             |                 |         |            | %Rec                 |                       |         |
| Analyte   |               |                     | Added          | Result                 | Qualifier       | Unit            | D       | %Rec       | Limits               |                       |         |
| Chloride  |               |                     | 250            | 250.7                  |                 | mg/Kg           |         | 100        | 90 - 110             |                       |         |
| Lab Sample ID: LCSD 880-682<br>Matrix: Solid                          | 203/3-A       |                     |                |                        |                 | Clie            | nt San  | nple ID:   | Lab Contro<br>Prep   | l Sample<br>Type: So  |         |
| Analysis Batch: 68314   |               |                     | Spike          | 1.000                  | LCSD            |                 |         |            | %Rec                 |                       | RPD     |
| Analyte   |               |                     | Added          |                        | Qualifier       | Unit            | D       | %Rec       | Limits               | RPD                   | Limit   |
| Chloride  |               |                     | 250            | 251.0                  |                 | mg/Kg           |         | 100        | 90 - 110             | 0                     | 20      |
| omonuo  |               |                     |                |                        |                 |                 |         |            |                      |                       |         |
| Lab Sample ID: 880-36411-1 M<br>Matrix: Solid                         | IS            |                     |                |                        |                 |                 |         | C          | ient Sampl<br>Prep   | e ID: CS<br>Type: So  |         |
| Lab Sample ID: 880-36411-1 M  |               | Sample              | Snike          | MQ                     | MS              |                 |         | C          | Prep                 |                       |         |
| Lab Sample ID: 880-36411-1 M<br>Matrix: Solid                         | Sample        | Sample<br>Qualifier | Spike<br>Added | MS<br>Result           | MS<br>Qualifier | Unit            | D       | Cl<br>%Rec |                      |                       |         |

**Eurofins Midland** 

Released to Imaging: 4/1/2024 7:45:25 AM

5

7

Job ID: 880-36411-1

# **QC Sample Results**

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

Method: 300.0 - Anions, Ion Chromatography Client Sample ID: CS-1 (5') Lab Sample ID: 880-36411-1 MSD Matrix: Solid Prep Type: Soluble Analysis Batch: 68314 RPD Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit D Chloride 15.4 251 284.0 mg/Kg 107 90 - 110 2 20

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

**Client Sample ID** 

SW-6 (5')

Method Blank

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

CS-1 (5')

CS-2 (5')

CS-3 (5')

CS-4 (5')

CS-5 (5')

SW-1 (5')

SW-2 (5')

SW-3 (5')

SW-4 (5')

SW-5 (5')

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Prep Batch

Job ID: 880-36411-1

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

Method

8021B

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

68224

68224

68224

68224

68224

68224

68224

68224

68224

68224

68224

68224

68224

68224

# Prep Batch: 68223

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-68223/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

### Prep Batch: 68224

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-36411-1         | CS-1 (5')              | Total/NA  | Solid  | 5035   |            |
| 880-36411-2         | CS-2 (5')              | Total/NA  | Solid  | 5035   |            |
| 880-36411-3         | CS-3 (5')              | Total/NA  | Solid  | 5035   |            |
| 880-36411-4         | CS-4 (5')              | Total/NA  | Solid  | 5035   |            |
| 880-36411-5         | CS-5 (5')              | Total/NA  | Solid  | 5035   |            |
| 880-36411-6         | SW-1 (5')              | Total/NA  | Solid  | 5035   |            |
| 880-36411-7         | SW-2 (5')              | Total/NA  | Solid  | 5035   |            |
| 380-36411-8         | SW-3 (5')              | Total/NA  | Solid  | 5035   |            |
| 380-36411-9         | SW-4 (5')              | Total/NA  | Solid  | 5035   |            |
| 880-36411-10        | SW-5 (5')              | Total/NA  | Solid  | 5035   |            |
| MB 880-68224/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-68224/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| _CSD 880-68224/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 380-36380-A-4-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-36380-A-4-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |
| rep Batch: 68308    |                        |           |        |        |            |
| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
| 880-36411-11        | SW-6 (5')              | Total/NA  | Solid  | 5035   |            |

**Eurofins Midland** 

**GC VOA** 

Lab Sample ID

MB 880-68223/5-A

MB 880-68308/5-A

LCS 880-68308/1-A

LCSD 880-68308/2-A

880-36273-A-41-B MS

880-36273-A-41-C MSD

Analysis Batch: 68206

Lab Sample ID

880-36411-1

880-36411-2

880-36411-3

880-36411-4

880-36411-5

880-36411-6

880-36411-7

880-36411-8

880-36411-9

880-36411-10

MB 880-68224/5-A

LCS 880-68224/1-A

LCSD 880-68224/2-A

880-36380-A-4-C MS

880-36380-A-4-D MSD

880-36411-11

Analysis Batch: 68204

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

# GC VOA (Continued)

## Prep Batch: 68308 (Continued)

| Lab Sample ID<br>MB 880-68308/5-A | Client Sample ID<br>Method Blank | Prep Type<br>Total/NA | Matrix<br>Solid | Method 5035 | Prep Batch |
|-----------------------------------|----------------------------------|-----------------------|-----------------|-------------|------------|
| LCS 880-68308/1-A                 | Lab Control Sample               | Total/NA              | Solid           | 5035        |            |
| LCSD 880-68308/2-A                | Lab Control Sample Dup           | Total/NA              | Solid           | 5035        |            |
| 880-36273-A-41-B MS               | Matrix Spike                     | Total/NA              | Solid           | 5035        |            |
| 880-36273-A-41-C MSD              | Matrix Spike Duplicate           | Total/NA              | Solid           | 5035        |            |

#### Analysis Batch: 68404

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-36411-1   | CS-1 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-2   | CS-2 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-3   | CS-3 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-4   | CS-4 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-5   | CS-5 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-6   | SW-1 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-7   | SW-2 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-8   | SW-3 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-9   | SW-4 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-10  | SW-5 (5')        | Total/NA  | Solid  | Total BTEX |            |
| 880-36411-11  | SW-6 (5')        | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

#### Analysis Batch: 68368

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-36411-1         | CS-1 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-2         | CS-2 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-3         | CS-3 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-4         | CS-4 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-5         | CS-5 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-6         | SW-1 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-7         | SW-2 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-8         | SW-3 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-9         | SW-4 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-10        | SW-5 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36411-11        | SW-6 (5')              | Total/NA  | Solid  | 8015B NM | 68386      |
| MB 880-68386/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 68386      |
| LCS 880-68386/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 68386      |
| LCSD 880-68386/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36387-A-4-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 68386      |
| 880-36387-A-4-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 68386      |

#### Prep Batch: 68386

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 880-36411-1   | CS-1 (5')        | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-2   | CS-2 (5')        | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-3   | CS-3 (5')        | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-4   | CS-4 (5')        | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-5   | CS-5 (5')        | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-6   | SW-1 (5')        | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-7   | SW-2 (5')        | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-8   | SW-3 (5')        | Total/NA  | Solid  | 8015NM Prep |            |

Eurofins Midland

5

Job ID: 880-36411-1

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

# GC Semi VOA (Continued)

## Prep Batch: 68386 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-36411-9         | SW-4 (5')              | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-10        | SW-5 (5')              | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36411-11        | SW-6 (5')              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-68386/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-68386/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-68386/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36387-A-4-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-36387-A-4-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

#### Analysis Batch: 68509

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-36411-1   | CS-1 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-2   | CS-2 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-3   | CS-3 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-4   | CS-4 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-5   | CS-5 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-6   | SW-1 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-7   | SW-2 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-8   | SW-3 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-9   | SW-4 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-10  | SW-5 (5')        | Total/NA  | Solid  | 8015 NM |            |
| 880-36411-11  | SW-6 (5')        | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

#### Leach Batch: 68191

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-36411-11       | SW-6 (5')              | Soluble   | Solid  | DI Leach |            |
| MB 880-68191/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-68191/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-68191/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5709-A-3-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-5709-A-3-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

#### Leach Batch: 68203

| Lab Sample ID      | Client Sample ID       | Ргер Туре | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-36411-1        | CS-1 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-2        | CS-2 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-3        | CS-3 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-4        | CS-4 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-5        | CS-5 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-6        | SW-1 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-7        | SW-2 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-8        | SW-3 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-9        | SW-4 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-10       | SW-5 (5')              | Soluble   | Solid  | DI Leach |            |
| MB 880-68203/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-68203/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-68203/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-36411-1 MS     | CS-1 (5')              | Soluble   | Solid  | DI Leach |            |
| 880-36411-1 MSD    | CS-1 (5')              | Soluble   | Solid  | DI Leach |            |

Job ID: 880-36411-1

Prep Type

Soluble

Matrix

Solid

Method

300.0

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

Prep Batch

68191

Job ID: 880-36411-1

| 5 |
|---|
|   |
|   |
| 8 |
| 9 |
|   |

Eurofins Midland

**Client Sample ID** 

SW-6 (5')

| HPLC/IC               |
|-----------------------|
| Analysis Batch: 68272 |

Lab Sample ID

880-36411-11

| MB 880-68191/1-A      | Method Blank           | Soluble   | Solid  | 300.0  | 6819      |
|-----------------------|------------------------|-----------|--------|--------|-----------|
|                       |                        |           |        |        |           |
| LCS 880-68191/2-A     | Lab Control Sample     | Soluble   | Solid  | 300.0  | 6819      |
| LCSD 880-68191/3-A    | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 6819      |
| 890-5709-A-3-B MS     | Matrix Spike           | Soluble   | Solid  | 300.0  | 6819      |
| 890-5709-A-3-C MSD    | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 6819      |
| analysis Batch: 68314 |                        |           |        |        |           |
| Lab Sample ID         | Client Sample ID       | Prep Type | Matrix | Method | Prep Batc |
| 880-36411-1           | CS-1 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-2           | CS-2 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-3           | CS-3 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-4           | CS-4 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-5           | CS-5 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-6           | SW-1 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-7           | SW-2 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-8           | SW-3 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-9           | SW-4 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-10          | SW-5 (5')              | Soluble   | Solid  | 300.0  | 6820      |
| MB 880-68203/1-A      | Method Blank           | Soluble   | Solid  | 300.0  | 6820      |
| LCS 880-68203/2-A     | Lab Control Sample     | Soluble   | Solid  | 300.0  | 6820      |
| LCSD 880-68203/3-A    | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 6820      |
| 880-36411-1 MS        | CS-1 (5')              | Soluble   | Solid  | 300.0  | 6820      |
|                       | CS-1 (5')              | Soluble   | Solid  | 300.0  | 6820      |

Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

# Lab Sample ID: 880-36411-1

Matrix: Solid

5

9

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

Client Sample ID: CS-1 (5')

**Client: Carmona Resources** 

| В         | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.00 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 18:14 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 18:14 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 11:36 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.90 g  | 10 mL  | 68386  | 12/05/23 09:30 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 11:36 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.99 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 22:37 | СН      | EET MID |

#### Lab Sample ID: 880-36411-2 Matrix: Solid

Lab Sample ID: 880-36411-3

Lab Sample ID: 880-36411-4

Matrix: Solid

#### Client Sample ID: CS-2 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 18:34 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 18:34 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 11:58 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.07 g | 10 mL  | 68386  | 12/05/23 09:30 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 11:58 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 22:54 | СН      | EET MID |

#### Client Sample ID: CS-3 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 18:55 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 18:55 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 12:20 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 68386  | 12/05/23 09:30 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 12:20 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.98 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 22:59 | CH      | EET MID |

#### Client Sample ID: CS-4 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 5.01 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 19:15 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 68404  | 12/04/23 19:15 | SM      | EET MID |

**Eurofins Midland** 

Matrix: Solid

Released to Imaging: 4/1/2024 7:45:25 AM
Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

### Lab Sample ID: 880-36411-4

Lab Sample ID: 880-36411-5

Lab Sample ID: 880-36411-6

Lab Sample ID: 880-36411-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

Client Sample ID: CS-4 (5')

**Client: Carmona Resources** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 12:42 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10 mL  | 68386  | 12/05/23 09:30 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 12:42 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.98 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 23:16 | СН      | EET MID |

#### Client Sample ID: CS-5 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.99 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 19:36 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 19:36 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 13:04 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10 mL  | 68386  | 12/05/23 09:30 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 13:04 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 23:22 | СН      | EET MID |

#### Client Sample ID: SW-1 (5')

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 19:56 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 19:56 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 13:25 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.98 g  | 10 mL  | 68386  | 12/05/23 09:30 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 13:25 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5 g     | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 23:28 | СН      | EET MID |

### Client Sample ID: SW-2 (5')

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 20:16 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 20:16 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 13:47 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.98 g  | 10 mL  | 68386  | 12/05/23 09:30 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 13:47 | SM      | EET MID |

Eurofins Midland

Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

## Lab Sample ID: 880-36411-7

Lab Sample ID: 880-36411-8

Matrix: Solid

Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

Client Sample ID: SW-2 (5')

**Client: Carmona Resources** 

|           | Batch    | Batch    |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method   | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Soluble   | Leach    | DI Leach |     |        | 5.05 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0    |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 23:33 | СН      | EET MID |

#### Client Sample ID: SW-3 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 20:37 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 20:37 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 14:09 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.92 g  | 10 mL  | 68386  | 12/05/23 09:30 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 14:09 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 23:39 | СН      | EET MID |

#### Client Sample ID: SW-4 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 20:57 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 20:57 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 14:31 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.96 g  | 10 mL  | 68386  | 12/05/23 09:30 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 14:31 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.95 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 23:45 | СН      | EET MID |

#### Client Sample ID: SW-5 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

Lab Sample ID: 880-36411-10 Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.97 g  | 5 mL   | 68224  | 12/04/23 14:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68206  | 12/04/23 21:18 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/04/23 21:18 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 15:15 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10 mL  | 68386  | 12/05/23 09:30 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 15:15 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.98 g  | 50 mL  | 68203  | 12/04/23 14:00 | СН      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68314  | 12/04/23 23:50 | СН      | EET MID |

**Eurofins Midland** 

#### Lab Sample ID: 880-36411-9 Matrix: Solid

Released to Imaging: 4/1/2024 7:45:25 AM

Job ID: 880-36411-1

### Lab Sample ID: 880-36411-11

Matrix: Solid

#### Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

#### Client Sample ID: SW-6 (5') Date Collected: 12/01/23 00:00 Date Received: 12/04/23 13:52

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 68308  | 12/04/23 15:34 | EL      | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 68204  | 12/05/23 07:51 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 68404  | 12/05/23 07:51 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 68509  | 12/05/23 15:37 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 68386  | 12/05/23 09:30 | ткс     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 68368  | 12/05/23 15:37 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.00 g  | 50 mL  | 68191  | 12/04/23 14:08 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 68272  | 12/04/23 22:41 | SMC     | EET MID |

#### Laboratory References:

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

Eurofins Midland

**Released to Imaging: 4/1/2024 7:45:25 AM** 

### Accreditation/Certification Summary

Client: Carmona Resources

| Project/Site: Lusk Deep Unit 025H (10.24.23) |
|--|
| Laboratory: Eurofins Midland                 |

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

| Authority                               | Progra                          | am     | Identification Number                    | Expiration Date        |
|---|---------------------------------|--------|--|------------------------|
| Texas                                   | NELA                            | C      | T104704400-23-26                         | 06-30-24               |
|   |                                 |        |  |                        |
| for which the agence                    | y does not offer certification. |        | ied by the governing authority. This lis | t may include analytes |
| for which the agence<br>Analysis Method |                                 | Matrix | Analyte                                  | t may include analytes |
| for which the agence                    | y does not offer certification. |        |  | t may include analytes |

Eurofins Midland

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

Protocol References:

Laboratory References:

DI Leach

300.0

5035

#### **Method Summary**

#### Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

Job ID: 880-36411-1

| bd           | Method Description  | Protocol                       | Laboratory |
|--------------|---|--------------------------------|------------|
| 3            | Volatile Organic Compounds (GC)   | SW846                          | EET MID    |
| BTEX         | Total BTEX Calculation  | TAL SOP                        | EET MID    |
| NM           | Diesel Range Organics (DRO) (GC)  | SW846                          | EET MID    |
| 3 NM         | Diesel Range Organics (DRO) (GC)  | SW846                          | EET MID    |
|              | Anions, Ion Chromatography  | EPA                            | EET MID    |
|              | Closed System Purge and Trap  | SW846                          | EET MID    |
| NM Prep      | Microextraction   | SW846                          | EET MID    |
| ach          | Deionized Water Leaching Procedure  | ASTM                           | EET MID    |
| otocol Refe  | rences:   |                                |            |
| ASTM = A     | STM International   |                                |            |
| EPA = US     | Environmental Protection Agency   |                                |            |
| SW846 = "    | Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, N | lovember 1986 And Its Updates. |            |
| TAL SOP =    | TestAmerica Laboratories, Standard Operating Procedure                                |                                |            |
| aboratory Re | ferences:   |                                |            |
| FFT MID =    | Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440           |                                |            |

Page 113 of 133

Eurofins Midland

### Sample Summary

Client: Carmona Resources Project/Site: Lusk Deep Unit 025H (10.24.23)

|               |                  | <b></b> |                | <b>.</b>       |
|---------------|------------------|---------|----------------|----------------|
| Lab Sample ID | Client Sample ID | Matrix  | Collected      | Received       |
| 880-36411-1   | CS-1 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-2   | CS-2 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-3   | CS-3 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-4   | CS-4 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-5   | CS-5 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-6   | SW-1 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 380-36411-7   | SW-2 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 380-36411-8   | SW-3 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-9   | SW-4 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-10  | SW-5 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |
| 880-36411-11  | SW-6 (5')        | Solid   | 12/01/23 00:00 | 12/04/23 13:52 |

5

Received by OCD: 1/25/2024 9:54:33 AM

S

|   |  |                     |                            |          |               | 4            | हा.<br>स्थ<br>स्थ |            |                       | Ϋ́,            | en e |              |      |        |        |        |          | V      | 880   | -36411 | 1 Cha   | in of Custo               | дy            |                 |
|---|--|---------------------|----------------------------|----------|---------------|--------------|-------------------|------------|-----------------------|----------------|--|--------------|------|--------|--------|--------|----------|--------|-------|--------|---|---------------------------|---------------|-----------------|
| Broject Managor                         | Connor Mach  | rina                |                            |          | <b></b>       |              |                   | _          |                       |                |  |              |      |        | ר ר    |        |          |        |       |        |   |                           | _1 of         | 2               |
|   | Conner Moehi<br>Carmona Res  |                     |                            |          | Bill to (if a |              |                   | Carmo      | na Re                 | source         | S  |              |      |        | ┥┝     |        |          |        |       |        |   | omments                   |               |                 |
|   |  |                     |                            |          | Company       |              |                   |            |                       |                |  |              |      |        |        |        |          |        | і Пьк | (P []) | rownt   | ields 📑 R                 | C Diperfur    | <sup>rd</sup> L |
|   |  |                     |                            |          |               |              |                   |            |                       |                |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
|   |  |                     |                            |          |               |              | DaPT              |            |                       | ' "            |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
|   |  |                     |                            | l        |               | maluycar     | Inonales          | ource      | s.con                 | 1              |  |              |      |        |        | Jenver | 40163.   |        |       |        |   |                           |               |                 |
| Project Name:                           | Lusk De  | ep Unit 028H (      | 10.24.23)                  |          | Around        |              | Pres.             | ,          |                       |                |  | <u>^</u>     | NAL) | YSIS F | REQUI  | EST    | <u> </u> | ·····1 | r     | ·····  |   | Preser                    | vative Code   | <u>s</u>        |
| Project Number                          |  | 2195                |                            | Routine  | Rush          |              | Code              | ┝──-┨      |                       |                |  |              |      |        | -+     |        |          |        |       |        | !'  | None: NO                  | DI Water      | H₂O             |
| Project Location                        | Lea  | County, New N       | lexico                     | Due Date | 24            | HR           |                   |            | 6                     |                |  |              |      |        |        |        |          |        |       |        |   | Cool Cool                 | MeOH M        |                 |
| Sampler's Name.<br>PO #:                |  | JR                  | JR                         |          |               |              |                   |            | + MRO)                |                |  |              |      |        |        |        |          |        |       |        | 1   | HCL. HC                   | HNO3. HI      |                 |
| SAMPLE RECEI                            |  |                     |                            |          |               | ters         |                   | ¢          | •                     |                |  |              |      |        |        |        |          |        |       |        | H <sub>2</sub> S0 <sub>4</sub> . H <sub>2</sub> | NaOH N                    | а             |                 |
| Received Intact:                        |  | mp-Blank:<br>/es No | (Yes) No<br>Thermometer ID | Wet Ice: | (Yes          | No           | Parameters        | BTEX 8021B | 10<br>+               | Chloride 300.0 |  |              |      |        |        |        |          |        |       |        |   | H₃PO₄: HP                 |               |                 |
| Cooler Custody Seals                    |  | No NA               | Correction Facto           |          | 1-15          | 29           | Par               | X 8(       | GRO                   | ride           |  |              |      |        |        |        |          |        |       |        |   | NaHSO4. NA<br>Na2S2O3. Na |               |                 |
| Sample Custody Seal                     |  | No N/A              | Temperature Re             |          |               | 3.67         | 1                 | HB I       | TPH 8015M ( GRO + DRO | Chlo           |  |              |      |        |        |        |          |        |       |        |   | Zn Acetate+I              |               | C               |
| Total Containers.                       |  |                     | Corrected Temp             |          | ~ 0           | 26           | ]                 |            | 8015                  |                |  |              |      |        |        |        |          |        |       |        | 1   |                           | rbic Acid SAP | c               |
| a sol water i bale i time i sol water i |  |                     |                            |          |               | # of<br>Cont |                   | НЧТ        |                       |                |  |              |      |        |        |        |          |        |       | ŀ      | Samp  | le Comment                | s             |                 |
| CS-1                                    | (5')   | 12/1/2023           |                            | Х        |               | С            | 1                 | Х          | Х                     | Х              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| CS-2 (                                  |  | 12/1/2023           |                            | Х        |               | С            | 1                 | Х          | Х                     | Х              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| CS-3 (                                  |  | 12/1/2023           |                            | Х        |               | С            | 1                 | Х          | Х                     | Х              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| CS-4                                    |  | 12/1/2023           |                            | Х        |               | С            | 1                 | Х          | Х                     | Х              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| CS-5 (                                  |  | 12/1/2023           |                            | Х        |               | С            | 1                 | X          | х                     | Х              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| SW-1                                    |  | 12/1/2023           |                            | Х        |               | C            | 1                 | X          | Х                     | Х              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| SW-2                                    |  | 12/1/2023           |                            | X        |               | С            | 1                 | Х          | Х                     | X              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| SW-3                                    |  | 12/1/2023           |                            | X        |               | С            | 1                 | Х          | Х                     | Х              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| SW-4                                    |  | 12/1/2023           |                            | X        |               | C            | 1                 | X          | Х                     | X              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| SW-5                                    |  | 12/1/2023           |                            | X        |               | C            | 1                 | X          | Х                     | X              |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
| Comments: Email                         | SW-3 (5)       12/1/2023       X       C       1       X |                     |                            |          |               |              |                   |            |                       |                |  |              |      |        |        |        |          |        |       |        |   |                           |               |                 |
|   |  | Relinquished b      | ov: (Signature)            |          |               |              |                   | Date/      | Time                  |                |  | 1/           | 11   | A -    | Receiv | ved h  | r (Sin   | inativ |       |        |   | T                         | Date/Time     |                 |
| Unen                                    |  | Ine                 | Y (0.3                     |          |               |              |                   | -4-        |                       | >              |  | $\mathbf{I}$ | Ąν   |        | 1Y     | Ű      |          |        | •)    |        |   | E                         | 246           | Z               |
|   |  |                     |                            |          |               |              | 1                 |            |                       |                | $\left  \right $                         | J            |      |        |        |        |          |        |       |        |   |                           | 100           |                 |

13

•

Received by OCD: 1/25/2024 9:54:33 AM

| 310 W Wall St Ste 500     Address.       v, State ZIP·     Midland, TX 79701     City, State ZIP·       432-813-6823     Email mcarmona@carmonaresources.com       ject Name:     Lusk Deep Unit 028H (10.24.23)       Turn Around     Press.       ject Location     Lea County, New Mexico       Due Date:     24 HR       mpler's Name     JR       #:   |                | Conner Moehri |              |                  |                    | Bill to (if |                                       |         | Carmo    | ona Re | esource  | s     |      |        |        |          |          |              | W          | ork O | rder (   | Comments           | 2of2_                   |
|---|----------------|---------------|--------------|------------------|--------------------|-------------|---------------------------------------|---------|----------|--------|----------|-------|------|--------|--------|----------|----------|--------------|------------|-------|----------|--------------------|-------------------------|
| i.i. State ZIP       Midland, TX 79701       City, State ZIP       Reporting Level II       StrUST       DRP       Level IV         ine:       432-813-6823       Email       incarmonal@carmonaresources.com       Reporting Level II       StrUST       DRP       Other         ject Name:       Lusk Deep Unt 028H (10.24.23)       Turn Around       Code       ANALYSIS REQUEST       Preservative Codes         ject Name:       2195       Incurn Around       Code       None, NO       DI Water Hy         ject Name:       JR       JR       Code       None, NO       DI Water Hy         mpler Name       JR       Struct       Yes       None, NO       DI Water Hy         mpler Shame       JR       MPLE RECEIPT       Tempe Blank:       Yes       No       Wet Icc:       Yes       No   |                |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              | Т          | RP [  | ]rown    | nfields <b>R</b> C | Diperfund               |
| Image:     432-813-6823     Email     Incarmona@carmonareaources.com     Deliverables. EDD     ADAPT     Other       iget Name:     Lusk Deep Unit 028H (10.24.23)     Turn Around     Prec.     ANALYSIS REGUEST     Precervative Codes       iget Name:     2195     I Routine     I Rush     Prec.     ANALYSIS REGUEST     Precervative Codes       iget Location     Lea County, New Mexico     Due Date:     24 HR     Precervative Codes     None. NO     DI Water Hg       #  | ·····          |               |              |                  |                    |             |                                       |         | <b> </b> |        |          |       |      |        |        |          |          |              | <b>~</b> . |       | <b>—</b> |                    |                         |
| lead Name:       Lusk Deep Unt 028H (10.24.23)       Turn Around       Construction       ANALYSIS REQUEST       Preservative Codes         ject Number       2195       Invertie       Rustine       24 HR       None. NO       DI Water Hg         ject Location       Lea County, New Mexico       Due Date:       24 HR       None. NO       DI Water Hg         right's Name       JR       JR       Seample Identification       JR       None. NO       DI Water Hg         MPLE RECEIPT       Temp Blank:       Yes No       Thermometer ID       Image: Seample Identification       Temperature Reading:       Image: Seample Identification       Date       Time       Soil       Water Group       Group       Seample Identification       Date       Time       Soil       Water Group       Corrector       Seample Identification       Image: Seample Identification       Image: Seample Identification       Date       Time       Soil       Corrector       Image: Seample Identification       Im  |                |               | /01          |                  |                    | 1           |                                       |         | L        |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
| ject Number     2195     I Routine     Rate Holder     Preservative Codes       ject Number     Lea County, New Mexico     Due Date:     24 HR     None. NO     None. NO     Di Water Hy       igter Stame     JR     JR     JR     JR     Stample Identification     None. NO     Die Mather Hy       MPLE RECEIPT     Temp Blank:     Yes No     Weitlee:     Yes No     Yes No     More. NO     Di Water Hy       parke dusting Status     Yes No     Thermometer D     Jr     Jr     Jr     No     No     No     No       parked Utat:     Yes No     Thermometer Recentge:     Jr     Jr     Jr     No     <   |                |               |              |                  |                    | Incarmo     | na@car                                | monares | source   | s.con  | <u>]</u> |       |      |        |        | Deliv    | erables  | EDD          |            |       | ADaP     | T∐ Othe            | r'                      |
| lear Number       2 135       Liskohne       Die Aussin       code       Image:   |                | Lusk De       |              | (10.24.23)       |                    |             |                                       | Pres    |          |        |          |       |      | NALY   | SIS RE | QUEST    |          |              |            |       |          | Preserv            | ative Codes             |
| nplefs Name       JR  |                |               |              |                  |                    | Г           |                                       |         | []       |        |          |       |      |        |        |          | <u> </u> |              |            |       |          | None, NO           | DI Water H <sub>2</sub> |
| SW-6 (5')     12/1/2023     X     Comp     Comp </td <td></td> <td>Lea (</td> <td></td> <td>Mexico</td> <td>Due Date:</td> <td>24</td> <td>HR</td> <td></td> <td></td> <td>â</td> <td></td> <td>Cool Cool</td> <td>MeOH Me</td>   |                | Lea (         |              | Mexico           | Due Date:          | 24          | HR                                    |         |          | â      |          |       |      |        |        |          |          |              |            |       |          | Cool Cool          | MeOH Me                 |
| SW-6 (5')     12/1/2023     X     Comp     Comp </td <td>)#:</td> <td></td> <td>JR</td> <td></td> <td>-</td> <td></td> <td colspan="2" rowspan="3">Yes No EE</td> <td></td> <td>MRC</td> <td></td> <td>1</td> <td></td>   | )#:            |               | JR           |                  | -                  |             | Yes No EE                             |         |          | MRC    |          |       |      |        |        |          |          |              |            |       |          | 1                  |                         |
| SW-6 (5')     12/1/2023     X     Comp     Comp </td <td></td> <td>PT Ter</td> <td>no Blank:</td> <td>Yes No</td> <td>Wet Ice.</td> <td>Ves</td> <td></td> <td>R0+</td> <td>ą</td> <td></td> <td>- · · -</td> <td>NaOH Na</td>  |                | PT Ter        | no Blank:    | Yes No           | Wet Ice.           | Ves         |                                       |         |          | R0+    | ą        |       |      |        |        |          |          |              |            |       |          | - · · -            | NaOH Na                 |
| SW-6 (5')     12/1/2023     X     Comp     Comp </td <td>ceived Intact:</td> <td></td> <td></td> <td></td> <td></td> <td>103</td> <td>30211</td> <td></td> <td>\$ 300</td> <td></td> <td>(</td> <td>[</td> <td></td> <td>1</td> <td>[</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td>  | ceived Intact: |               |              |                  |                    | 103         |                                       |         | 30211    |        | \$ 300   |       | (    | [      |        | 1        | [        |              |            |       |          |                    | 10                      |
| SW-6 (5')     12/1/2023     X     Comp     Comp </td <td></td> <td></td> <td>No N/A</td> <td>Correction Facto</td> <td>pr:</td> <td></td> <td></td> <td>Par</td> <td>IEX 8</td> <td>GRC</td> <td>oride</td> <td></td>   |                |               | No N/A       | Correction Facto | pr:                |             |                                       | Par     | IEX 8    | GRC    | oride    |       |      |        |        |          |          |              |            |       |          |                    |                         |
| SW-6 (5')     12/1/2023     X     Comp     Comp </td <td></td> <td>ls Yes</td> <td>No N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>5M (</td> <td>CPI</td> <td></td> <td>1</td> <td></td>   |                | ls Yes        | No N/A       |                  |                    |             |                                       |         | 6        | 5M (   | CPI      |       |      |        |        |          |          |              |            |       |          | 1                  |                         |
| SW-6 (5')     12/1/2023     X     Comp     Comp </td <td>tal Containers</td> <td></td> <td>1</td> <td>Corrected Temp</td> <td>erature.</td> <td><u> </u></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td>H 801</td> <td></td> <td>NaOH+Ascorb</td> <td>ic Acid SAPC</td>  | tal Containers |               | 1            | Corrected Temp   | erature.           | <u> </u>    | · · · · · · · · · · · · · · · · · · · |         |          | H 801  |          |       |      |        |        |          |          |              |            |       |          | NaOH+Ascorb        | ic Acid SAPC            |
| Image: Sector of the sector                     | Sample Iden    | tification    | Date         | Time             | Soil               | Water       | 1                                     | 1       |          | TPI    |          |       |      |        |        |          |          |              |            |       |          | Sample             | Comments                |
| Image: Second state of the second s | SW-6           | (5')          | 12/1/2023    |                  | Х                  |             | С                                     | 1       | X        | Х      | Х        |       |      |        |        | -        | 1        |              |            |       |          |                    |                         |
| Image: Second and Seco |                |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
| Image: Second                     |                |               | <br>         |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
| mments: Email to Mike Carmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com   |                |               | <br>         |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
| mments: Email to Mike Carmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com   |                |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
| mments: Email to Mike Carmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com   |                |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
| mments: Email to Mike Carmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com   |                |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          | <b> </b> |              |            |       |          | L                  |                         |
| mments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com  | <u></u>        |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
| mments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com  |                |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       | <u> </u> |                    |                         |
|   | mments: Email  | to Mike Carm  | ona / Mcarmo | ona@carmona      | l<br>resources.com | 1 and Co    | nner Mc                               | behring | / Cmo    | ehrin  | a@cai    | monar | esou | rces.c | om     | 1        |          |              |            |       |          |                    |                         |
|   |                |               |              |                  |                    |             |                                       |         |          |        |          |       |      |        |        |          |          |              |            |       |          |                    |                         |
|   |                |               | Relinguished | ov: (Signature)  |                    |             |                                       | 1       | Dato     | Timo   |          |       | A    |        |        |          |          | 0            |            |       |          |                    |                         |
| Relinquished by: (Signature)  |                |               |              |                  |                    |             |                                       |         |          |        | ~        |       |      | A/2-   | ARE    | ceived I | oy (Si   | gnátúr       | re)        |       |          |                    | Date/Time               |
| Relinquished by: (Signature)     Date/Time     7     Received by: (Signature)     Date/Time       12-4-23     12-4-23     14     14     14     14   | /_/            | enna          |              | NØX              |                    |             |                                       | 12.     |          | - 6    | 5        |       | Ľ    | W/     | WIX    | YL       | X        | $\checkmark$ |            |       |          |                    |                         |

13

n de

Ŕ

S

•

5

14

Job Number: 880-36411-1

List Source: Eurofins Midland

#### Login Sample Receipt Checklist

Client: Carmona Resources

#### Login Number: 36411 List Number: 1 Creator: Kramer, Jessica

MS/MSDs

<6mm (1/4").

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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. True There is sufficient vol. for all requested analyses, incl. any requested True

Eurofins Midland Released to Imaging: 4/1/2024 7:45:25 AM

Containers requiring zero headspace have no headspace or bubble is

N/A

# **APPENDIX F**



*Received by OCD: 1/25/2024 9:54:33 AM* 



USDA Natural Resources Conservation Service Released to Imaging: 4/1/2024 7:45:25 AM

Web Soil Survey National Cooperative Soil Survey 12/27/2023 Page 1 of 3





# Map Unit Legend

| Map Unit Symbol             | Map Unit Name  | Acres in AOI | Percent of AOI |
|-----------------------------|--|--------------|----------------|
| MF                          | Maljamar and Palomas fine sands, 0 to 3 percent slopes | 0.1          | 100.0%         |
| Totals for Area of Interest |  | 0.1          | 100.0%         |



### Lea County, New Mexico

### MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

### Map Unit Setting

National map unit symbol: dmqb Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Farmland of statewide importance

#### Map Unit Composition

Maljamar and similar soils: 46 percent Palomas and similar soils: 44 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

### **Description of Maljamar**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

### **Typical profile**

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

### Interpretive groups

Land capability classification (irrigated): 7e

Map Unit Description: Maljamar and Palomas fine sands, 0 to 3 percent slopes---Lea County, New Mexico

Page 123 of 133

Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### **Description of Palomas**

#### Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 45 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5

inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### **Minor Components**

#### Kermit

Percent of map unit: 5 percent Ecological site: R070BC022NM - Sandhills Hydric soil rating: No

#### Wink

*Percent of map unit:* 5 percent *Ecological site:* R070BD003NM - Loamy Sand



Hydric soil rating: No

### **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023



(28)

#### BLM SERIAL #:

#### COMPANY REFERENCE:

#### 3.3 Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

| <u>Species</u>                             | <u>lb/acre</u> |
|--|----------------|
| Sand dropseed (Sporobolus cryptandrus)     | 1.0            |
| Sand love grass (Eragrostis trichodes)     | 1.0            |
| Plains bristlegrass (Setaria macrostachya) | 2.0            |

\*Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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

QUESTIONS

Action 307705

| QUESTIONS                               |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Operator:<br>COG OPERATING LLC          | OGRID: 229137   |  |  |  |  |  |
| 600 W Illinois Ave<br>Midland, TX 79701 | Action Number:<br>307705  |  |  |  |  |  |
|   | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |  |  |  |  |  |

#### QUESTIONS

| Prerequisites     |  |
|-------------------|--|
| Incident ID (n#)  | nAPP2333132247                           |
| Incident Name     | NAPP2333132247 LUSK DEEP UNIT 028H @ 0   |
| Incident Type     | Produced Water Release                   |
| Incident Status   | Remediation Closure Report Received      |
| Incident Facility | [fAPP2204035872] LUSK DEEP A #28H - BATT |

#### Location of Release Source

| Please answer all the questions in this group. |                     |  |  |  |  |
|--|---------------------|--|--|--|--|
| Site Name                                      | LUSK DEEP UNIT 028H |  |  |  |  |
| Date Release Discovered                        | 10/24/2023          |  |  |  |  |
| Surface Owner                                  | Federal             |  |  |  |  |

#### Incident Details

| Please answer all the questions in this group.  |                        |  |  |  |  |
|---|------------------------|--|--|--|--|
| Incident Type   | Produced Water Release |  |  |  |  |
| Did this release result in a fire or is the result of a fire  | No                     |  |  |  |  |
| Did this release result in any injuries   | No                     |  |  |  |  |
| Has this release reached or does it have a reasonable probability of reaching a<br>watercourse          | No                     |  |  |  |  |
| Has this release endangered or does it have a reasonable probability of<br>endangering public health    | No                     |  |  |  |  |
| Has this release substantially damaged or will it substantially damage property or the environment      | No                     |  |  |  |  |
| Is this release of a volume that is or may with reasonable probability be<br>detrimental to fresh water | No                     |  |  |  |  |

Nature and Volume of Release Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Crude Oil Released (bbls) Details Not answered. Cause: Other | Flow Line - Production | Produced Water | Released: 7 BBL | Recovered: 0 Produced Water Released (bbls) Details BBL | Lost: 7 BBL Is the concentration of chloride in the produced water >10,000 mg/l Yes Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

QUESTIONS, Page 2

Action 307705

**QUESTIONS** (continued) Operator: OGRID: COG OPERATING LLC 229137 600 W Illinois Ave Action Number: Midland, TX 79701 307705 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

| Nature and Volume of Release (continued)  |   |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
| Is this a gas only submission (i.e. only significant Mcf values reported)   | No, according to supplied volumes this does not appear to be a "gas only" report. |  |  |  |  |  |  |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC  | No  |  |  |  |  |  |  |
| Reasons why this would be considered a submission for a notification of a major release   | Unavailable.  |  |  |  |  |  |  |
| Vith the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. |   |  |  |  |  |  |  |

| Initial Response   |                        |  |  |  |  |  |
|--|------------------------|--|--|--|--|--|
| The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.   |                        |  |  |  |  |  |
| The source of the release has been stopped   | True                   |  |  |  |  |  |
| The impacted area has been secured to protect human health and the<br>environment  | True                   |  |  |  |  |  |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices   | True                   |  |  |  |  |  |
| All free liquids and recoverable materials have been removed and managed<br>appropriately  | True                   |  |  |  |  |  |
| If all the actions described above have not been undertaken, explain why   | Not answered.          |  |  |  |  |  |
| Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.   |                        |  |  |  |  |  |
| 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. |                        |  |  |  |  |  |
|  | Name: Brittany Esparza |  |  |  |  |  |

Title: Environmental Technician

Date: 01/25/2024

Email: brittany.Esparza@ConocoPhillips.com

I hereby agree and sign off to the above statement

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

QUESTIONS, Page 3

Action 307705

Page 128 of 133

| QUESTIONS | (continued) |
|-----------|-------------|
|-----------|-------------|

| Operator:          | OGRID:  |
|--------------------|---|
| COG OPERATING LLC  | 229137  |
| 600 W Illinois Ave | Action Number:  |
| Midland, TX 79701  | 307705  |
|                    | Action Type:  |
|                    | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)   | Between 100 and 500 (ft.)       |
|--|---------------------------------|
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search  |
| Did this release impact groundwater or surface water   | No                              |
| What is the minimum distance, between the closest lateral extents of the release ar  | nd the following surface areas: |
| A continuously flowing watercourse or any other significant watercourse  | Greater than 5 (mi.)            |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Between 1 and 5 (mi.)           |
| An occupied permanent residence, school, hospital, institution, or church  | Greater than 5 (mi.)            |
| A spring or a private domestic fresh water well used by less than five households<br>for domestic or stock watering purposes | Greater than 5 (mi.)            |
| Any other fresh water well or spring   | Between ½ and 1 (mi.)           |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)            |
| A wetland  | Greater than 5 (mi.)            |
| A subsurface mine  | Greater than 5 (mi.)            |
| An (non-karst) unstable area   | Greater than 5 (mi.)            |
| Categorize the risk of this well / site being in a karst geology   | Low                             |
| A 100-year floodplain  | Greater than 5 (mi.)            |
| Did the release impact areas not on an exploration, development, production, or storage site                                 | Yes                             |

#### Remediation Plan

| Please answer all the question | s that apply or are indicated. This information must be provided to  | the appropriate district office no later than 90 days after the release discovery date.                            |
|--------------------------------|--|--|
| Requesting a remediation       | on plan approval with this submission  | Yes  |
| Attach a comprehensive report  | t demonstrating the lateral and vertical extents of soil contamination   | n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.             |
| Have the lateral and ver       | tical extents of contamination been fully delineated   | Yes  |
| Was this release entirely      | y contained within a lined containment area  | No   |
| Soil Contamination Sampl       | ing: (Provide the highest observable value for each, in m  | illigrams per kilograms.)  |
| Chloride                       | (EPA 300.0 or SM4500 CI B)   | 0  |
| TPH (GRO+DRO+MRO)              | (EPA SW-846 Method 8015M)  | 0  |
| GRO+DRO                        | (EPA SW-846 Method 8015M)  | 0  |
| BTEX                           | (EPA SW-846 Method 8021B or 8260B)   | 0  |
| Benzene                        | (EPA SW-846 Method 8021B or 8260B)   | 0  |
|                                | 11 NMAC unless the site characterization report includes complete<br>timelines for beginning and completing the remediation. | d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, |
| On what estimated date         | will the remediation commence  | 11/29/2023   |
| On what date will (or did      | I) the final sampling or liner inspection occur  | 11/30/2023   |
| On what date will (or wa       | s) the remediation complete(d)   | 12/08/2023   |
| What is the estimated su       | urface area (in square feet) that will be reclaimed  | 1000   |
| What is the estimated vo       | plume (in cubic yards) that will be reclaimed  | 0  |
| What is the estimated su       | urface area (in square feet) that will be remediated   | 850  |
| What is the estimated vo       | olume (in cubic yards) that will be remediated   | 220  |
| These estimated dates and me   | asurements are recognized to be the best guess or calculation at th  | e time of submission and may (be) change(d) over time as more remediation efforts are completed.                   |
| The OCD recognizes that prop   | osed remediation measures may have to be minimally adjusted in   | accordance with the physical realities encountered during remediation. If the responsible party has any need to    |

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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

**QUESTIONS** (continued)

QUESTIONS, Page 4

Action 307705

| Operator:  | OGRID:   |
|--|--|
| COG OPERATING LLC  | 229137   |
| 600 W Illinois Ave   | Action Number:   |
| Midland, TX 79701  | 307705   |
|  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure)  |
|  |  |
| QUESTIONS  |  |
| Remediation Plan (continued)   |  |
| Please answer all the questions that apply or are indicated. This information must be provided to the  | appropriate district office no later than 90 days after the release discovery date.  |
| This remediation will (or is expected to) utilize the following processes to remediate   | e / reduce contaminants:   |
| (Select all answers below that apply.)   |  |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)   | Yes  |
| Which OCD approved facility will be used for off-site disposal   | LUSK DEEP A #28H - BATT [fAPP2204035872]   |
| OR which OCD approved well (API) will be used for off-site disposal  | Not answered.  |
| OR is the off-site disposal site, to be used, out-of-state   | Not answered.  |
| OR is the off-site disposal site, to be used, an NMED facility   | Not answered.  |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)   | No   |
| (In Situ) Soil Vapor Extraction  | No   |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)  | No   |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)   | No   |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)   | No   |
| Ground Water Abatement pursuant to 19.15.30 NMAC   | No   |
| OTHER (Non-listed remedial process)  | No   |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed et<br>which includes the anticipated timelines for beginning and completing the remediation. | forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,   |
| to report and/or file certain release notifications and perform corrective actions for releat<br>the OCD does not relieve the operator of liability should their operations have failed to a | knowledge and understand that pursuant to OCD rules and regulations all operators are required<br>ases which may endanger public health or the environment. The acceptance of a C-141 report by<br>adequately investigate and remediate contamination that pose a threat to groundwater, surface<br>t does not relieve the operator of responsibility for compliance with any other federal, state, or |

|  | I hereby agree and sign off to the above statement | Name: Brittany Esparza<br>Title: Environmental Technician<br>Email: brittany.Esparza@ConocoPhillips.com<br>Date: 01/25/2024 |
|--|--|---|
| The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to |  |   |
| significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.  |  |   |

Released to Imaging: 4/1/2024 7:45:25 AM

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

Page 130 of 133

Action 307705

| QUESTIONS (continued)                   |   |
|---|---|
| Operator:<br>COG OPERATING LLC          | OGRID:<br>229137  |
| 600 W Illinois Ave<br>Midland, TX 79701 | Action Number:<br>307705  |
|   | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| QUESTIONS                               |   |

#### Deferral Requests Only

| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of | the following items must be confirmed as part of any request for deferral of remediation. |
|--|---|
| Requesting a deferral of the remediation closure due date with the approval of this submission       | No  |

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

QUESTIONS, Page 6

Action 307705

| QUESTIONS (continued) |   |
|-----------------------|---|
| Operator:             | OGRID:  |
| COG OPERATING LLC     | 229137  |
| 600 W Illinois Ave    | Action Number:  |
| Midland, TX 79701     | 307705  |
|                       | Action Type:  |
|                       | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 307727     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 11/20/2023 |
| What was the (estimated) number of samples that were to be gathered                             | 5          |
| What was the sampling surface area in square feet   | 0          |

**Remediation Closure Request** 

| Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.  |   |  |
|---|---|--|
| Requesting a remediation closure approval with this submission  | Yes   |  |
| Have the lateral and vertical extents of contamination been fully delineated  | Yes   |  |
| Was this release entirely contained within a lined containment area   | No  |  |
| All areas reasonably needed for production or subsequent drilling operations have<br>been stabilized, returned to the sites existing grade, and have a soil cover that<br>prevents ponding of water, minimizing dust and erosion  | Yes   |  |
| What was the total surface area (in square feet) remediated   | 840   |  |
| What was the total volume (cubic yards) remediated  | 220   |  |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene  | Yes   |  |
| What was the total surface area (in square feet) reclaimed  | 1000  |  |
| What was the total volume (in cubic yards) reclaimed  | 0   |  |
| Summarize any additional remediation activities not included by answers (above)   | Nothing additional to report  |  |
|   | closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a<br>notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of   |  |
| to report and/or file certain release notifications and perform corrective actions for releat<br>the OCD does not relieve the operator of liability should their operations have failed to<br>water, human health or the environment. In addition, OCD acceptance of a C-141 report | knowledge and understand that pursuant to OCD rules and regulations all operators are required<br>uses which may endanger public health or the environment. The acceptance of a C-141 report by<br>adequately investigate and remediate contamination that pose a threat to groundwater, surface<br>t does not relieve the operator of responsibility for compliance with any other federal, state, or<br>ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed<br>ng notification to the OCD when reclamation and re-vegetation are complete. |  |

| I hereby agree and sign off to the above statement | Name: Brittany Esparza                     |
|--|--|
|  | Title: Environmental Technician            |
|  | Email: brittany.Esparza@ConocoPhillips.com |
|  | Date: 01/25/2024                           |

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

QUESTIONS, Page 7

Action 307705

Page 132 of 133

| QUESTIONS (continued)                   |   |  |
|---|---|--|
| Operator:<br>COG OPERATING LLC          | OGRID:<br>229137  |  |
| 600 W Illinois Ave<br>Midland, TX 79701 | Action Number:<br>307705  |  |
|   | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |  |
| QUESTIONS                               |   |  |
| Reclamation Report                      |   |  |

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission

No

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

Page 133 of 133

CONDITIONS

Action 307705

Operator: OGRID: COG OPERATING LLC 229137 600 W Illinois Ave Action Number: Midland, TX 79701 307705 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

#### CONDITIONS

| Created | Condition | Condition |
|---------|-----------|-----------|
| By      |           | Date      |
| nvelez  | None      | 4/1/2024  |