CARMONA RESOURCES

# SITE INFORMATION

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**Closure Report**
**Vaca Draw Federal SWD**
**Incident #NAPP221484877**
**Lea County, New Mexico**
**Unit P Sec 21 T25S R33E**
**32.110607°, -103.571313°**

**Produced Water Release**
**Point of Release: Gate Valve Failure**
**Release Date: 5/27/2022**
**Volume Released: 40 barrels of Produced Water**
**Volume Recovered: 30 barrels of Produced Water**

CARMONA RESOURCES

**Prepared for:**
**NGL Energy Partners, LLC**
**865 North Albion Street**
**Denver, CO 80220**

**Prepared by:**
**Carmona Resources, LLC**
**310 West Wall Street**
**Suite 415**
**Midland, Texas 79701**

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

CARMONA RESOURCES

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

CARMONA RESOURCES

November 29 2022

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

**Re: Closure Report**
**Vaca Draw Federal SWD**
**NGL Water Solutions Permian, LLC**
**Incident # NAPP2214845877**
**Site Location: Unit P, S21, T25S, R33E**
**(Lat 32.110607º, Long -103.571313º)**
**Lea County, New Mexico**

To Whom it may concern:

On behalf of NGL Energy Partners (NGL), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Vaca Draw Federal SWD. This site is located at 32.110607°, -103.571313° within Unit P, S21, T25S, R33E, 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 May 27, 2022, caused by a gate valve failure. It resulted in the release of approximately forty (40) barrels of produced water, and thirty (30) barrels were recovered. The impacted area was on the ROW. See 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, there are no known water sources within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.94 miles West of the site in S20, T25S, R33E and was drilled in 1981. The well has a reported depth to groundwater of 204.36’ below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

## 3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg

## 4.0 Site Assessment Activities

Initial Assessment

On June 16, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of seven (7) sample points and nine (9) horizontal samples were advanced to depths ranging from the surface to 5.0’ bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into

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

CARMONA RESOURCES

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.

Referring to Table 1, none of the samples collected (S-1 through S-7) showed benzene, total BTEX, and TPH concentrations above the regulatory limits. The areas of S-1, and S-2, showed high chloride concentrations ranging from 69.3 mg/kg to 4,690 mg/kg. During the initial assessment, vertical delineation was not achieved due to the dense rock formation encountered.

Horizontal Delineation

The areas of H-1 through H-9 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

## 5.0 Remediation Activities

Carmona Resources personnel was onsite to supervise the remediation activities and collect confirmation samples. Before collecting composite confirmation samples, the NMOCD division office was notified via email on November 15, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of T-1 and T-2 were excavated to a depth of 6.0' below the surface to remove all the impacted soils. A total of five (5) confirmation floor samples were collected (CS-1 through CS-5), and eight (8) sidewall samples (SW-1 through SW-8) 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 sampling results are summarized in Table 2. 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.
Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 245 cubic yards of material were excavated and transported offsite for proper disposal.

## 6.0 Conclusions

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

Sincerely,

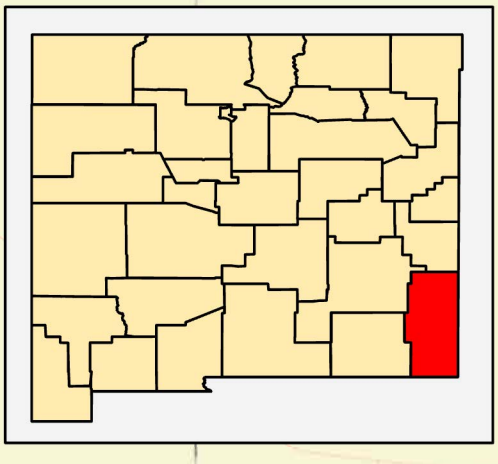
**Carmona Resources, LLC**

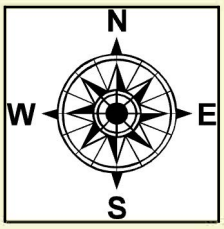
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

# FIGURES

CARMONA RESOURCES






128

W NM Highway 128

Ochoa

Orla Rd

652

0 2 4 8 Miles

**Legend**

★ Site Location

**OVERVIEW MAP**
**NGL ENERGY PARTNERS**
VACA DRAW FEDERAL SWD
LEA COUNTY, NEW MEXICO
32.110607, -103.571313

SCALE: As Shown

Date: 8/23/2022

CARMONA RESOURCES

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

NOTES:

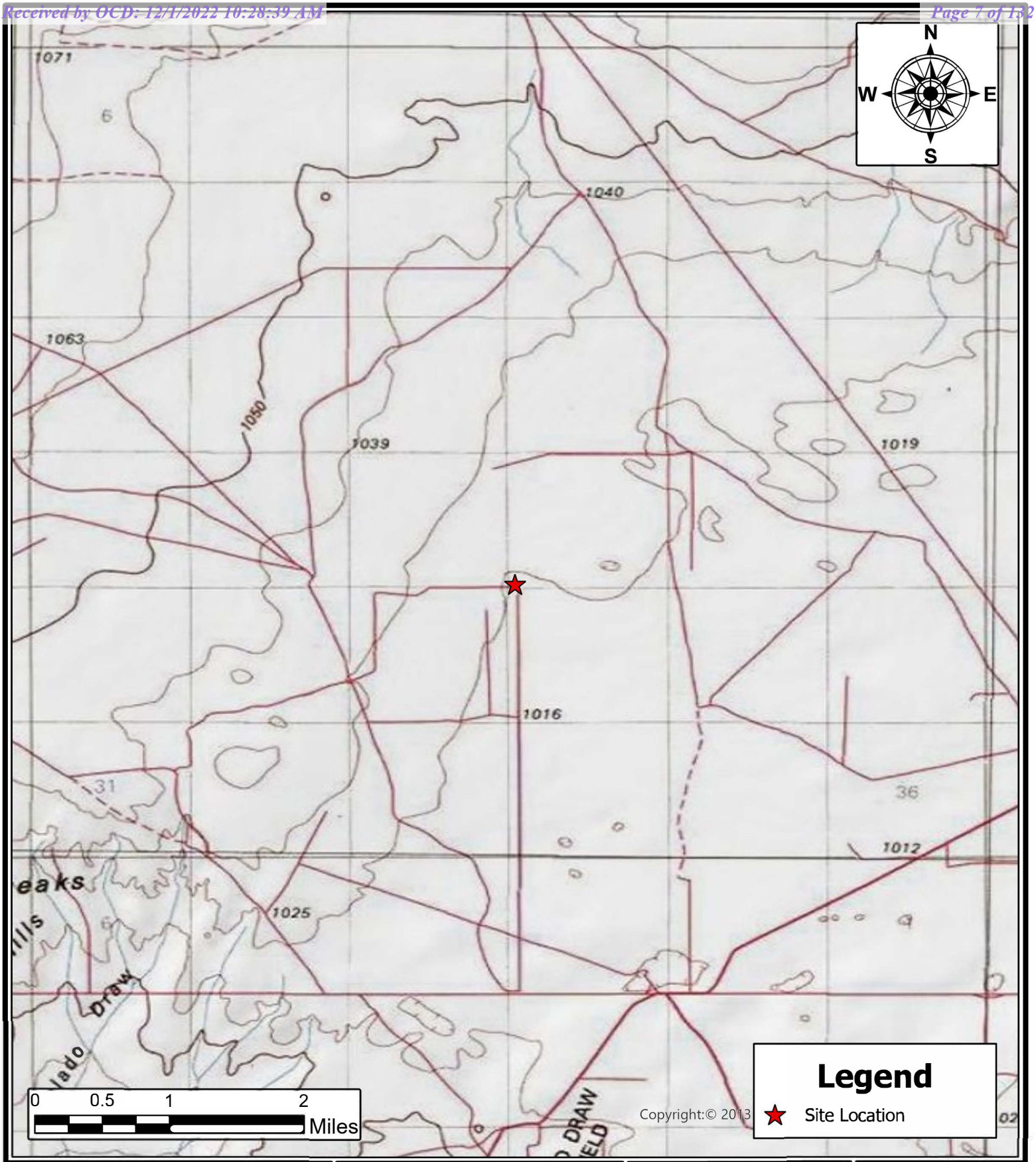
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

**1 of 1**




**TOPOGRAPHIC MAP**
**NGL ENERGY PARTNERS**
VACA DRAW FEDERAL SWD
LEA COUNTY, NEW MEXICO
32.110607, -103.571313

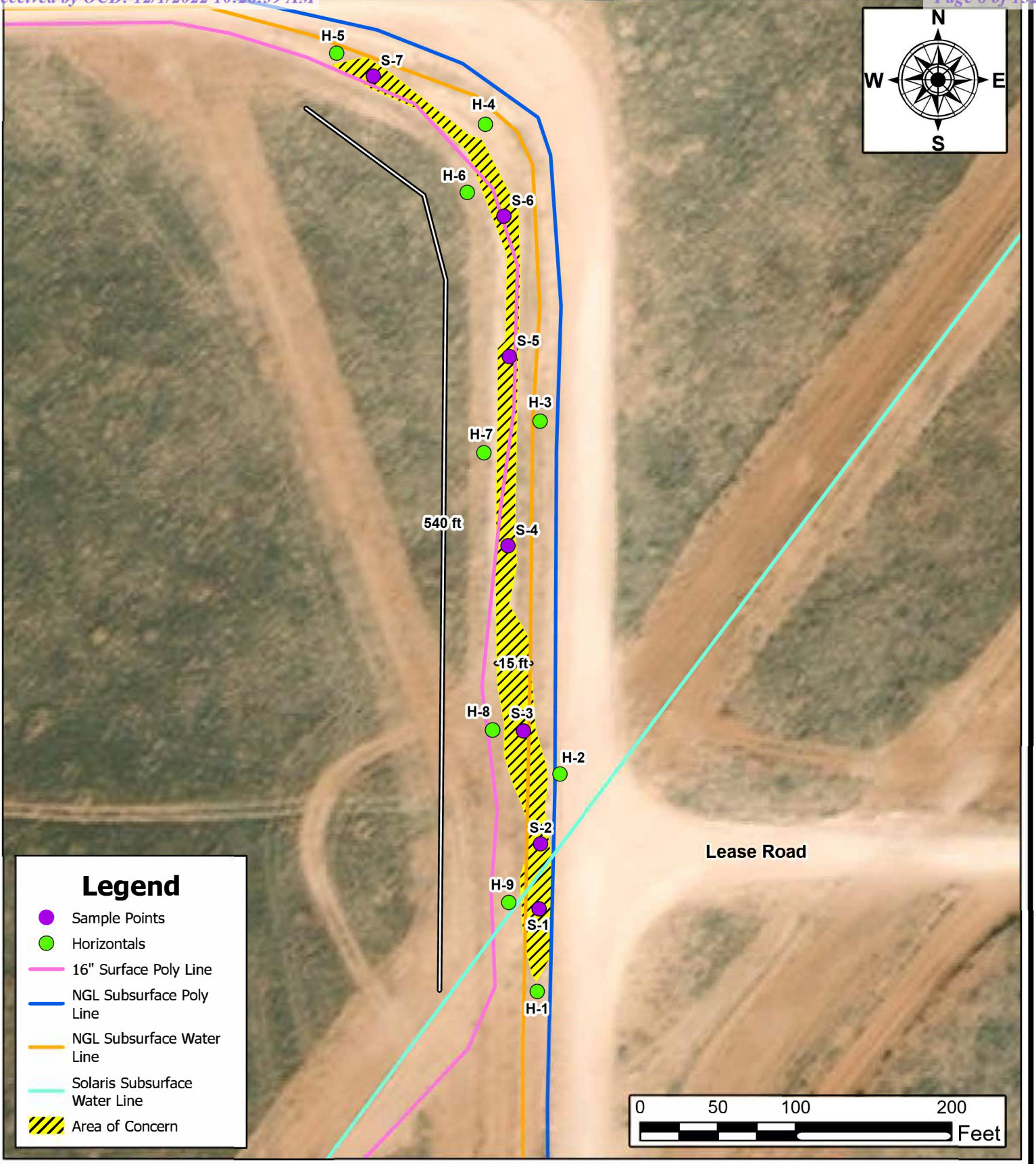
SCALE: As Shown | Date: 8/23/2022

CARMONA RESOURCES

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

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

DRAWING NUMBER:
**FIGURE 2**
SHEET NUMBER:
**1 of 1**




**SAMPLE LOCATION MAP**
**NGL ENERGY PARTNERS**
VACA DRAW FEDERAL SWD
LEA COUNTY, NEW MEXICO
32.110607, -103.571313

SCALE: As Shown | Date: 8/28/2022

CARMONA RESOURCES

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

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

DRAWING NUMBER:
**FIGURE 3**
SHEET NUMBER:
**1 of 1**


| | | |
|---|---|---|
| EXCAVATION DEPTH MAP<br>NGL ENERGY PARTNERS<br>VACA DRAW ROW RELEASE<br>LEA COUNTY, NEW MEXICO<br>32.110607°, -103.571313° | CARMONA RESOURCES | FIGURE 4 |

# APPENDIX A

CARMONA RESOURCES

# Table 1
## NGL Water Solutions Permian
## Vaca Draw Federal SWD
## Lea County, New Mexico

| Sample ID | Date | Depth (ft) | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | GRO | DRO | MRO | Total | | | | | | |
| S-1 | 6/16/2022 | 0-1 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | 90.9 |
| | " | 1.5 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 75.9 |
| | " | 2.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | **2,050** |
| | " | 3.0 | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | **3,210** |
| | " | 4.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00401 | <0.00401 | **4,690** |
| | " | 5.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 | **3,200** |
| S-2 | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | 94.1 |
| | " | 1.5 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 69.3 |
| | " | 2.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | **2,240** |
| | " | 3.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | **3,220** |
| | " | 4.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | **3,930** |
| | " | 5.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | **3,120** |
| S-3 | 6/16/2022 | 0-1 | <49.8 | <49.8 | <49.8 | <49.8 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 21.0 |
| S-4 | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | 12.2 |
| S-5 | 6/16/2022 | 0-1 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 17.9 |
| S-6 | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00401 | <0.00401 | 14.2 |
| S-7 | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 9.41 |
| *Regulatory Criteria* [A] | | | | | | 100 mg/kg | 10 mg/kg | - | - | - | 50 mg/kg | 600 mg/kg |

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(T) Trench

Removed

# Table 1
## NGL Water Solutions Permian
## Vaca Draw Federal SWD
## Lea County, New Mexico

| Sample ID | Date | Depth (ft) | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | GRO | DRO | MRO | Total | | | | | | |
| **H-1** | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | 5.11 |
| **H-2** | 6/16/2022 | 0-1 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 6.00 |
| **H-3** | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00401 | <0.00401 | <4.98 |
| **H-4** | 6/16/2022 | 0-1 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | 15.7 |
| **H-5** | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 28.2 |
| **H-6** | 6/16/2022 | 0-1 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 16.8 |
| **H-7** | 6/16/2022 | 0-1 | <49.8 | <49.8 | <49.8 | <49.8 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | 16.2 |
| **H-8** | 6/16/2022 | 0-1 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 16.0 |
| **H-9** | 6/16/2022 | 0-1 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | 16.0 |
| ***Regulatory Criteria*** [A] | | | | | | **100 mg/kg** | **10 mg/kg** | - | - | - | **50 mg/kg** | **600 mg/kg** |

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontal

# Table 2
## NGL Water Solutions Permian
## Vaca Draw Federal SWD
## Lea County, New Mexico

| Sample ID | Date | Depth (ft) | TPH (mg/kg) | | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | GRO | DRO | MRO | Total | | | | | | |
| **CS-1** | 11/18/2022 | 6.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00403 | <0.00403 | 25.4 |
| **CS-2** | 11/18/2022 | 6.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 103 |
| **CS-3** | 11/18/2022 | 6.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00396 | <0.00396 | 56.3 |
| **CS-4** | 11/22/2022 | 6.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00402 | <0.00402 | 70.7 |
| **CS-5** | 11/22/2022 | 6.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 50.4 |
| **SW-1** | 11/18/2022 | 6.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00201 | <0.00201 | <0.00201 | <0.00402 | <0.00402 | 14.0 |
| **SW-2** | 11/18/2022 | 6.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00200 | <0.00200 | <0.00200 | <0.00401 | <0.00401 | 20.2 |
| **SW-3** | 11/18/2022 | 6.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 | 47.7 |
| **SW-4** | 11/22/2022 | 6.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00198 | <0.00198 | <0.00198 | <0.00397 | <0.00397 | 16.6 |
| **SW-5** | 11/22/2022 | 6.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | 15.1 |
| **SW-6** | 11/22/2022 | 6.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00404 | <0.00404 | 15.6 |
| **SW-7** | 11/22/2022 | 6.0 | <49.9 | <49.9 | <49.9 | <49.9 | <0.00202 | <0.00202 | <0.00202 | 0.00428 | 0.00428 | 35.0 |
| **SW-8** | 11/22/2022 | 6.0 | <50.0 | <50.0 | <50.0 | <50.0 | <0.00202 | <0.00202 | <0.00202 | <0.00403 | <0.00403 | 68.2 |
| ***Regulatory Criteria*** [A] | | | | | | **100 mg/kg** | **10 mg/kg** | - | - | - | **50 mg/kg** | **600 mg/kg** |

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall

# APPENDIX B

CARMONA RESOURCES

# PHOTOGRAPHIC LOG

**NGL**

**Photograph No. 1**

**Facility:** Vaca Draw Federal SWD

**County:** Lea County, New Mexico

**Description:**
View North, area of confirmation samples (1-5).


**Photograph No. 2**

**Facility:** Vaca Draw Federal SWD

**County:** Lea County, New Mexico

**Description:**
View South, area of confirmation samples (1-5).


CARMONA RESOURCES

# APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

| | |
|---|---|
| Incident ID | nAPP2214845877 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | | | |
|---|---|---|---|
| Responsible Party | NGL Water Solutions Permian, LLC | OGRID | 372338 |
| Contact Name | Joseph Vargo | Contact Telephone | 303-815-1010 |
| Contact email | Joseph.Vargo@nglep.com | Incident # *(assigned by OCD)* | nAPP2214845877 |
| Contact mailing address | 865 N. Albion Street, Suite 400, Denver, CO 80220 | | |

## Location of Release Source

Latitude 32.110607 Longitude -103.571313
*(NAD 83 in decimal degrees to 5 decimal places)*

| | | | |
|---|---|---|---|
| Site Name | Vaca Draw Federal SWD | Site Type | Saltwater Disposal |
| Date Release Discovered | 5.27.2022 | API# *(if applicable)* | 30-025-23895 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| P | 21 | 25S | 33E | Lea |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☒ Produced Water | Volume Released (bbls) 40 | Volume Recovered (bbls) 30 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☒ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

A leak occured from a 16" poly pipe on NGL Water Solutions ROW. It began leaking at a gate valve that was being used.

NGL personnel isolated the line and installed a blind flange to stop the leak.

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2214845877 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>[x] Yes [ ] No | If YES, for what reason(s) does the responsible party consider this a major release?<br><br>More than 25 bbls |

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Yes, Joseph Vargo, through NOR on 5.28.2022. Also emailed BLM on 5.28.2022.

## Initial Response

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

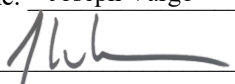
- [x] The source of the release has been stopped.
- [x] The impacted area has been secured to protect human health and the environment.
- [x] Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- [x] All free liquids and recoverable materials 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: Joseph Vargo  Title: Regulatory Director

Signature:   Date: 5.31.2022

email: Joseph.Vargo@nglep.com  Telephone: 303-815-1010

**OCD Only**

Received by: _____  Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| 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 **not** 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: Jocelyn Harimon Date: 12/01/2022

State of New Mexico
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.

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: Jocelyn Harimon Date: 12/01/2022

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

Closure Approved by: Jennifer Nobui Date: 01/04/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

**From:** Enviro, OCD, EMNRD
**Sent:** Tuesday, November 15, 2022 2:19 PM
**To:** Mike Carmona
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
**Subject:** RE: [EXTERNAL] NGL -Vaca Draw Federal SWD - Sampling Notification - Incident #NAPP2214845877

Thank you for the notification. Please 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.

**Jocelyn Harimon** ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

**From:** Mike Carmona <Mcarmona@carmonaresources.com>
**Sent:** Tuesday, November 15, 2022 12:51 PM
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
**Cc:** Conner Moehring <Cmoehring@carmonaresources.com>; Joe Vargo <Joseph.Vargo@nglep.com>
**Subject:** [EXTERNAL] NGL -Vaca Draw Federal SWD - Sampling Notification - Incident #NAPP2214845877

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

Good Afternoon,

On behalf of NGL, Carmona Resources will collect confirmation samples for the below-referenced site on 11/18/22 around 1 p.m. Mountain Time. Please let me know if you have any questions.

**Vaca Draw Federal SWD**
**Incident #NAPP2214845877**
**Lea County, New Mexico**

Mike J. Carmona
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

# APPENDIX D

CARMONA RESOURCES

LOW KARST

NGL - VACA DRAW ROW RELEASE

Legend

- Low
- Vaca Draw ROW Release

Vaca Draw ROW Release

N

2000 ft

# NEAREST WATER WELL

NGL - VACA DRAW ROW RELEASE

**Legend**

- 0.50 Mile Radius
- 0.94 Miles
- 1.21 Miles
- 1.64 Miles
- NMSEO Water Well
- USGS Water Well
- Vaca Draw ROW Release

Vaca Draw ROW Release

204.36' - Drilled 1981

212.97' - Drilled 1976

110' - Drilled 1925

N

4000 ft

Google Earth

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 320631103351401

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 320631103351401 25S.33E.20.443313

Lea County, New Mexico
Latitude 32°06'31", Longitude 103°35'14" NAD27
Land-surface elevation 3,398 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measu |
|---|---|---|---|---|---|---|---|---|---|---|
| 1981-03-25 | | D | 62610 | | 3192.01 | NGVD29 | 1 | Z | | |
| 1981-03-25 | | D | 62611 | | 3193.64 | NAVD88 | 1 | Z | | |
| 1981-03-25 | | D | 72019 | 204.36 | | | 1 | Z | | |

**Explanation**

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

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

---

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
**Title: Groundwater for New Mexico: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?**

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-06-03 13:35:07 EDT
0.4 0.37 nadww01

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 320615103352601

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 320615103352601 25S.33E.20.443331

Lea County, New Mexico
Latitude 32°06'15", Longitude 103°35'26" NAD27
Land-surface elevation 3,404 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measu |
|---|---|---|---|---|---|---|---|---|---|---|
| 1970-12-08 | | D | 62610 | | 3189.60 | NGVD29 | 1 | Z | | |
| 1970-12-08 | | D | 62611 | | 3191.23 | NAVD88 | 1 | Z | | |
| 1970-12-08 | | D | 72019 | 212.77 | | | 1 | Z | | |
| 1976-01-08 | | D | 62610 | | 3189.40 | NGVD29 | 1 | Z | | |
| 1976-01-08 | | D | 62611 | | 3191.03 | NAVD88 | 1 | Z | | |
| 1976-01-08 | | D | 72019 | 212.97 | | | 1 | Z | | |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |

| Section | Code | Description |
|---|---|---|
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Method of measurement | Z | Other. |
| Measuring agency | | Not determined |
| Source of measurement | | Not determined |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
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U.S. Department of the Interior | U.S. Geological Survey

**Title: Groundwater for New Mexico: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?**

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-06-03 13:33:03 EDT
0.31 0.28 nadww02

*New Mexico Office of the State Engineer*

# Point of Diversion Summary

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

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | C 02313 | 2 | 3 | 3 | 26 | 25S | 33E | 636971 | 3552098* |

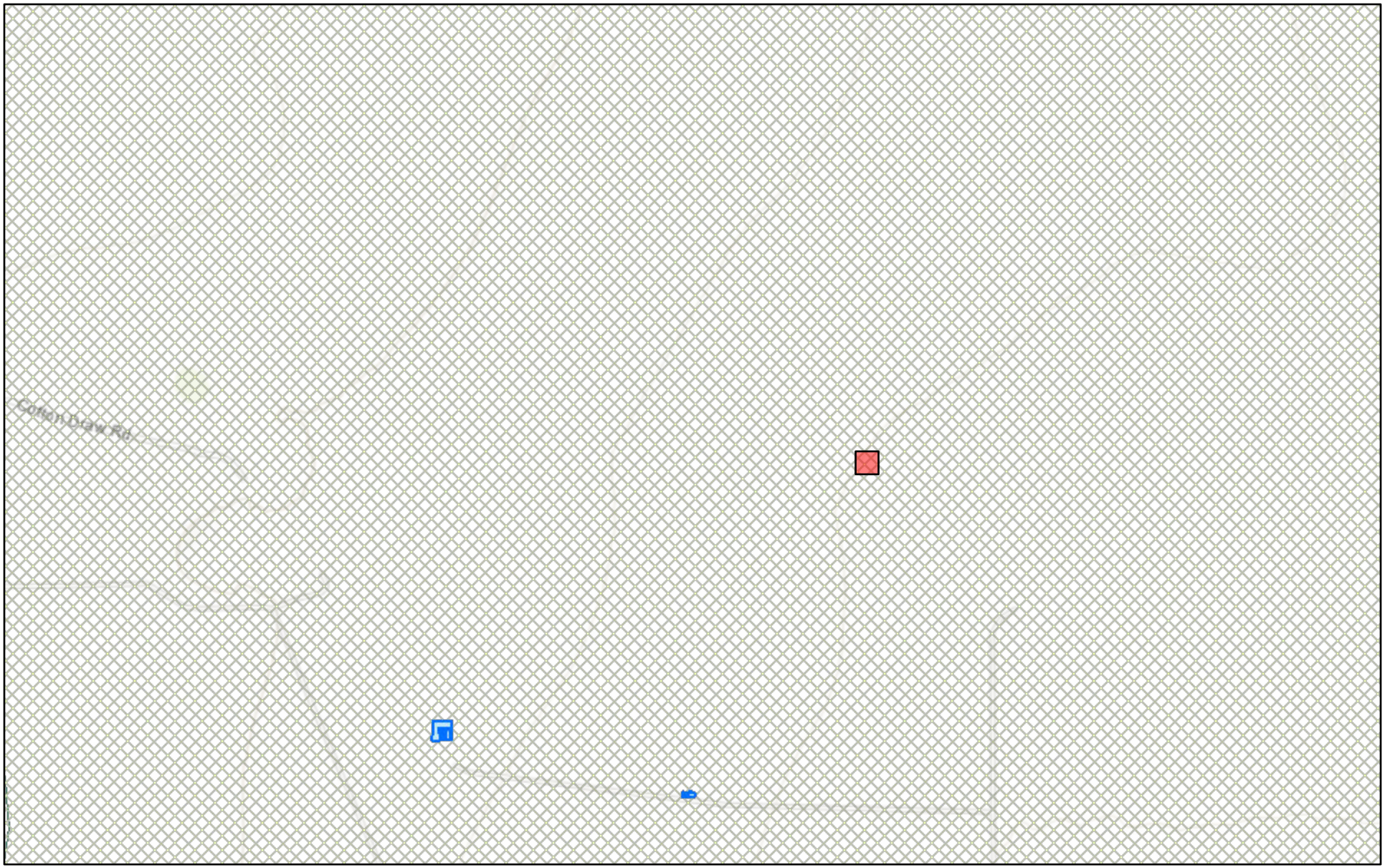
**Driller License:** **Driller Company:**

**Driller Name:** UNKNOWN

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 01/01/1925 | **Drill Finish Date:** | 06/30/1925 | **Plug Date:** | |
| **Log File Date:** | | **PCW Rcv Date:** | | **Source:** | |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | 60 GPM |
| **Casing Size:** | 6.88 | **Depth Well:** | 150 feet | **Depth Water:** | 110 feet |

***UTM location was derived from PLSS - see Help**

# New Mexico NFHL Data




June 3, 2022

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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,

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# APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 880-16078-1
Laboratory Sample Delivery Group: Lea Co. NM
Client Project/Site: Vaca Draw ROW Release

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

Attn: Conner Moehring

JKramer

*Authorized for release by:*
*6/28/2022 7:28:05 PM*

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



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

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

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Laboratory Job ID: 880-16078-1
SDG: Lea Co. NM

# Table of Contents

# Definitions/Glossary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Qualifiers

### GC 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. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Job ID: 880-16078-1

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative**
**880-16078-1**

**Receipt**
The samples were received on 6/20/2022 2:33 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 3.0°C

**GC VOA**
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-16078-1), S-1 (1.5') (880-16078-2), S-1 (2') (880-16078-3), S-1 (3') (880-16078-4), S-1 (4') (880-16078-5) and (CCV 880-28002/51). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-28110 and analytical batch 880-28092 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28109 and 880-28109 and analytical batch 880-28093 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-28002/33), (LCS 880-28068/1-A) and (LCSD 880-28068/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (820-4663-A-74-C MS) and (820-4663-A-74-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (820-4663-A-74-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

**HPLC/IC**
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-28057 and analytical batch 880-28168 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28058 and 880-28058 and analytical batch 880-28228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28058 and analytical batch 880-28228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-1**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 11:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 11:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 11:45 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 11:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 11:45 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 11:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *145* | *S1+* | *70 - 130* | *06/21/22 15:28* | *06/22/22 11:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *06/21/22 15:28* | *06/22/22 11:45* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 13:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 13:17 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 13:17 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 13:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *109* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 13:17* | *1* |
| *o-Terphenyl* | *119* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 13:17* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **90.9** | **F1** | 5.03 | | mg/Kg | | | 06/25/22 22:57 | 1 |

## Client Sample ID: S-1 (1.5')

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-2**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:11 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:11 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:11 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:11 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:11 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *145* | *S1+* | *70 - 130* | *06/21/22 15:28* | *06/22/22 12:11* | *1* |
| *1,4-Difluorobenzene (Surr)* | *83* | | *70 - 130* | *06/21/22 15:28* | *06/22/22 12:11* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-1 (1.5')

**Lab Sample ID: 880-16078-2**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:19 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:19 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *102* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 14:19* | *1* |
| *o-Terphenyl* | *111* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 14:19* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **75.9** | | 5.05 | | mg/Kg | | | 06/25/22 23:21 | 1 |

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

**Lab Sample ID: 880-16078-3**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:37 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:37 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:37 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:37 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:37 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 12:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *142* | *S1+* | *70 - 130* | *06/21/22 15:28* | *06/22/22 12:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *86* | | *70 - 130* | *06/21/22 15:28* | *06/22/22 12:37* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:39 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-3**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:39 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:39 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 14:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *108* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 14:39* | *1* |
| *o-Terphenyl* | *123* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 14:39* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2050** | | 25.2 | | mg/Kg | | | 06/25/22 23:29 | 5 |

## Client Sample ID: S-1 (3')

**Lab Sample ID: 880-16078-4**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:03 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:03 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:03 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *150* | *S1+* | *70 - 130* | *06/21/22 15:28* | *06/22/22 13:03* | *1* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* | *06/21/22 15:28* | *06/22/22 13:03* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:00 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:00 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 15:00* | *1* |
| *o-Terphenyl* | *105* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 15:00* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-1 (3')

**Lab Sample ID: 880-16078-4**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3210 | | 24.9 | | mg/Kg | | | 06/25/22 23:36 | 5 |

## Client Sample ID: S-1 (4')

**Lab Sample ID: 880-16078-5**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:29 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:29 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:29 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 13:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *156* | *S1+* | *70 - 130* | *06/21/22 15:28* | *06/22/22 13:29* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *06/21/22 15:28* | *06/22/22 13:29* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:21 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:21 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *110* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 15:21* | *1* |
| *o-Terphenyl* | *123* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 15:21* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 4690 | | 25.2 | | mg/Kg | | | 06/25/22 23:44 | 5 |

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

**Lab Sample ID: 880-16078-6**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 16:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 16:13 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

## Lab Sample ID: 880-16078-6

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 16:13 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 16:13 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 16:13 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 16:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 16:13* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 16:13* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:42 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:42 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 15:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *107* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 15:42* | *1* |
| *o-Terphenyl* | *123* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 15:42* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3200** | | 24.8 | | mg/Kg | | | 06/26/22 00:08 | 5 |

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

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

## Lab Sample ID: 880-16078-7

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:02 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:02 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:02 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:02 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:02 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 17:02* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 17:02* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-7**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:03 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:03 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 16:03* | *1* |
| *o-Terphenyl* | *103* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 16:03* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **94.1** | | 4.96 | | mg/Kg | | | 06/26/22 00:16 | 1 |

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

**Lab Sample ID: 880-16078-8**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:22 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:22 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:22 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:22 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:22 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 17:22* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 17:22* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:24 | 1 |

Eurofins Midland

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-8**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:24 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:24 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *110* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 16:24* | *1* |
| *o-Terphenyl* | *121* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 16:24* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **69.3** | | 4.95 | | mg/Kg | | | 06/26/22 00:24 | 1 |

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

**Lab Sample ID: 880-16078-9**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:43 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:43 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:43 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:43 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:43 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 17:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 17:43* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 17:43* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:44 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:44 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 16:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *102* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 16:44* | *1* |
| *o-Terphenyl* | *116* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 16:44* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-2 (2')
**Lab Sample ID: 880-16078-9**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 2240 | | 24.9 | | mg/Kg | | | 06/26/22 00:31 | 5 |

## Client Sample ID: S-2 (3')
**Lab Sample ID: 880-16078-10**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:03 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:03 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:03 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:03 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:03 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 18:03* | *1* |
| *1,4-Difluorobenzene (Surr)* | *83* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 18:03* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:05 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:05 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *100* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 17:05* | *1* |
| *o-Terphenyl* | *112* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 17:05* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3220 | | 24.9 | | mg/Kg | | | 06/26/22 00:39 | 5 |

## Client Sample ID: S-2 (4')
**Lab Sample ID: 880-16078-11**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:24 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:24 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-2 (4')

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

## Lab Sample ID: 880-16078-11

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:24 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:24 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:24 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 18:24* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 18:24* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:47 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:47 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 17:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *108* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 17:47* | *1* |
| *o-Terphenyl* | *120* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 17:47* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3930** | **F1** | 24.9 | | mg/Kg | | | 06/26/22 00:47 | 5 |

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

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

## Lab Sample ID: 880-16078-12

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:44 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:44 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:44 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 18:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 18:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 18:44* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-12**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:08 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:08 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *99* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 18:08* | *1* |
| *o-Terphenyl* | *110* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 18:08* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **3120** | | 24.9 | | mg/Kg | | | 06/28/22 13:04 | 5 |

## Client Sample ID: S-3 (0-1')

**Lab Sample ID: 880-16078-13**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:05 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:05 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:05 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:05 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:05 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 19:05* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 19:05* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:29 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-3 (0-1')

**Lab Sample ID: 880-16078-13**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:29 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:29 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *89* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 18:29* | *1* |
| *o-Terphenyl* | *99* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 18:29* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.0** | | 5.02 | | mg/Kg | | | 06/26/22 01:18 | 1 |

## Client Sample ID: S-4 (0-1')

**Lab Sample ID: 880-16078-14**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:25 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:25 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:25 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:25 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:25 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 19:25* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 19:25* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:50 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:50 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 18:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *92* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 18:50* | *1* |
| *o-Terphenyl* | *101* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 18:50* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-4 (0-1')

**Lab Sample ID: 880-16078-14**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 12.2 | | 5.02 | | mg/Kg | | | 06/26/22 01:42 | 1 |

## Client Sample ID: S-5 (0-1')

**Lab Sample ID: 880-16078-15**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:46 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:46 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:46 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:46 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:46 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 19:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 19:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *06/22/22 09:57* | *06/22/22 19:46* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:11 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:11 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:11 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *95* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 19:11* | *1* |
| *o-Terphenyl* | *105* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 19:11* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 17.9 | | 4.98 | | mg/Kg | | | 06/26/22 01:50 | 1 |

## Client Sample ID: S-6 (0-1')

**Lab Sample ID: 880-16078-16**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:02 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:02 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-6 (0-1')

**Lab Sample ID: 880-16078-16**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:02 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:02 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:02 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 17:02* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 17:02* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:32 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:32 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:32 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *91* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 19:32* | *1* |
| *o-Terphenyl* | *104* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 19:32* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **14.2** | | 5.01 | | mg/Kg | | | 06/26/22 01:58 | 1 |

## Client Sample ID: S-7 (0-1')

**Lab Sample ID: 880-16078-17**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:22 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:22 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:22 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:22 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:22 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *88* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 17:22* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 17:22* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-7 (0-1')

**Lab Sample ID: 880-16078-17**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:52 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:52 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 19:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *98* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 19:52* | *1* |
| *o-Terphenyl* | *105* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 19:52* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **9.41** | | 4.98 | | mg/Kg | | | 06/26/22 02:06 | 1 |

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

**Lab Sample ID: 880-16078-18**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:43 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:43 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:43 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 17:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *90* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 17:43* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 17:43* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:13 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-18**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:13 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:13 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *86* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 20:13* | *1* |
| *o-Terphenyl* | *92* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 20:13* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **5.11** | | 5.05 | | mg/Kg | | | 06/26/22 02:13 | 1 |

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

**Lab Sample ID: 880-16078-19**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 18:04 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 18:04 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 18:04 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 18:04 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 18:04 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 18:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 18:04* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 18:04* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:34 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:34 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *93* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 20:34* | *1* |
| *o-Terphenyl* | *104* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 20:34* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-19**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 6.00 | | 4.96 | | mg/Kg | | | 06/26/22 02:21 | 1 |

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

**Lab Sample ID: 880-16078-20**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:56 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:56 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:56 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:56 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:56 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 11:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 11:56* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:55 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:55 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 20:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *99* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 20:55* | *1* |
| *o-Terphenyl* | *104* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 20:55* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.98 | U | 4.98 | | mg/Kg | | | 06/26/22 02:29 | 1 |

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

**Lab Sample ID: 880-16078-21**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:16 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

## Lab Sample ID: 880-16078-21

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:16 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:16 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 12:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 12:16* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 22:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 22:39 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 22:39 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 22:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *102* | | *70 - 130* | *06/21/22 11:35* | *06/21/22 22:39* | *1* |
| *o-Terphenyl* | *111* | | *70 - 130* | *06/21/22 11:35* | *06/21/22 22:39* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **15.7** | | 4.95 | | mg/Kg | | | 06/23/22 11:06 | 1 |

## Client Sample ID: H-5 (0-0.5')

**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

## Lab Sample ID: 880-16078-22

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:37 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:37 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:37 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:37 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:37 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 12:37* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 12:37* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: H-5 (0-0.5')

**Lab Sample ID: 880-16078-22**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 23:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 23:40 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 23:40 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 23:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *95* | | *70 - 130* | *06/21/22 11:35* | *06/21/22 23:40* | *1* |
| *o-Terphenyl* | *106* | | *70 - 130* | *06/21/22 11:35* | *06/21/22 23:40* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **28.2** | **F1** | 5.00 | | mg/Kg | | | 06/23/22 11:16 | 1 |

## Client Sample ID: H-6 (0-0.5')

**Lab Sample ID: 880-16078-23**
**Date Collected: 06/16/22 00:00**
**Matrix: Solid**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:57 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:57 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:57 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 12:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 12:57* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 12:57* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:01 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: H-6 (0-0.5')

**Lab Sample ID: 880-16078-23**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:01 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:01 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *90* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 00:01* | *1* |
| *o-Terphenyl* | *102* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 00:01* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.8** | | 5.00 | | mg/Kg | | | 06/23/22 11:43 | 1 |

## Client Sample ID: H-7 (0-0.5')

**Lab Sample ID: 880-16078-24**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:18 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:18 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:18 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:18 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:18 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *107* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 13:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 13:18* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:22 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:22 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *97* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 00:22* | *1* |
| *o-Terphenyl* | *109* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 00:22* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: H-7 (0-0.5')

**Lab Sample ID: 880-16078-24**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16.2 | | 5.05 | | mg/Kg | | | 06/23/22 11:52 | 1 |

## Client Sample ID: H-8 (0-0.5')

**Lab Sample ID: 880-16078-25**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:38 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:38 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:38 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:38 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:38 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 13:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 13:38* | *1* |

### Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:43 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:43 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 00:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *87* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 00:43* | *1* |
| *o-Terphenyl* | *97* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 00:43* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 16.0 | | 4.99 | | mg/Kg | | | 06/23/22 12:20 | 1 |

## Client Sample ID: H-9 (0-0.5')

**Lab Sample ID: 880-16078-26**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:59 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

**Client Sample ID: H-9 (0-0.5')**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-26**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:59 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:59 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:59 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 13:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 13:59* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 13:59* | *1* |

## Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 06/23/22 11:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 06/22/22 11:20 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 01:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 01:03 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 01:03 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/22/22 01:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 01:03* | *1* |
| *o-Terphenyl* | *103* | | *70 - 130* | *06/21/22 11:35* | *06/22/22 01:03* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.0** | | 4.99 | | mg/Kg | | | 06/23/22 12:29 | 1 |

# Surrogate Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | BFB1 | DFBZ1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 820-4663-A-74-C MS | Matrix Spike | 132 S1+ | 94 |
| 820-4663-A-74-D MSD | Matrix Spike Duplicate | 139 S1+ | 97 |
| 880-16078-1 | S-1 (0-1') | 145 S1+ | 88 |
| 880-16078-2 | S-1 (1.5') | 145 S1+ | 83 |
| 880-16078-3 | S-1 (2') | 142 S1+ | 86 |
| 880-16078-4 | S-1 (3') | 150 S1+ | 85 |
| 880-16078-5 | S-1 (4') | 156 S1+ | 90 |
| 880-16078-6 | S-1 (5') | 111 | 93 |
| 880-16078-7 | S-2 (0-1') | 112 | 94 |
| 880-16078-8 | S-2 (1.5') | 110 | 93 |
| 880-16078-9 | S-2 (2') | 108 | 93 |
| 880-16078-10 | S-2 (3') | 106 | 83 |
| 880-16078-11 | S-2 (4') | 113 | 94 |
| 880-16078-12 | S-2 (5') | 115 | 90 |
| 880-16078-13 | S-3 (0-1') | 115 | 94 |
| 880-16078-14 | S-4 (0-1') | 117 | 94 |
| 880-16078-15 | S-5 (0-1') | 113 | 94 |
| 880-16078-16 | S-6 (0-1') | 89 | 103 |
| 880-16078-17 | S-7 (0-1') | 88 | 107 |
| 880-16078-18 | H-1 (0-0.5') | 90 | 108 |
| 880-16078-19 | H-2 (0-0.5') | 97 | 106 |
| 880-16078-20 | H-3 (0-0.5') | 111 | 90 |
| 880-16078-20 MS | H-3 (0-0.5') | 103 | 90 |
| 880-16078-20 MSD | H-3 (0-0.5') | 100 | 91 |
| 880-16078-21 | H-4 (0-0.5') | 112 | 91 |
| 880-16078-22 | H-5 (0-0.5') | 110 | 91 |
| 880-16078-23 | H-6 (0-0.5') | 111 | 88 |
| 880-16078-24 | H-7 (0-0.5') | 107 | 91 |
| 880-16078-25 | H-8 (0-0.5') | 111 | 90 |
| 880-16078-26 | H-9 (0-0.5') | 110 | 91 |
| 880-16162-A-1-B MS | Matrix Spike | 111 | 97 |
| 880-16162-A-1-C MSD | Matrix Spike Duplicate | 111 | 99 |
| 880-16170-A-2-B MS | Matrix Spike | 89 | 107 |
| 880-16170-A-2-C MSD | Matrix Spike Duplicate | 90 | 109 |
| LCS 880-28068/1-A | Lab Control Sample | 135 S1+ | 94 |
| LCS 880-28109/1-A | Lab Control Sample | 84 | 104 |
| LCS 880-28110/1-A | Lab Control Sample | 110 | 98 |
| LCS 880-28204/1-A | Lab Control Sample | 111 | 97 |
| LCSD 880-28068/2-A | Lab Control Sample Dup | 137 S1+ | 85 |
| LCSD 880-28109/2-A | Lab Control Sample Dup | 114 | 100 |
| LCSD 880-28110/2-A | Lab Control Sample Dup | 108 | 98 |
| LCSD 880-28204/2-A | Lab Control Sample Dup | 111 | 97 |
| MB 880-27988/5-A | Method Blank | 100 | 87 |
| MB 880-28068/5-A | Method Blank | 104 | 85 |
| MB 880-28109/5-A | Method Blank | 89 | 108 |
| MB 880-28110/5-A | Method Blank | 102 | 90 |
| MB 880-28204/5-A | Method Blank | 103 | 88 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

DFBZ = 1,4-Difluorobenzene (Surr)

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

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | | | |
| 880-16078-1 | S-1 (0-1') | 109 | 119 | | | | | | | | | | |
| 880-16078-1 MS | S-1 (0-1') | 94 | 94 | | | | | | | | | | |
| 880-16078-1 MSD | S-1 (0-1') | 95 | 93 | | | | | | | | | | |
| 880-16078-2 | S-1 (1.5') | 102 | 111 | | | | | | | | | | |
| 880-16078-3 | S-1 (2') | 108 | 123 | | | | | | | | | | |
| 880-16078-4 | S-1 (3') | 94 | 105 | | | | | | | | | | |
| 880-16078-5 | S-1 (4') | 110 | 123 | | | | | | | | | | |
| 880-16078-6 | S-1 (5') | 107 | 123 | | | | | | | | | | |
| 880-16078-7 | S-2 (0-1') | 94 | 103 | | | | | | | | | | |
| 880-16078-8 | S-2 (1.5') | 110 | 121 | | | | | | | | | | |
| 880-16078-9 | S-2 (2') | 102 | 116 | | | | | | | | | | |
| 880-16078-10 | S-2 (3') | 100 | 112 | | | | | | | | | | |
| 880-16078-11 | S-2 (4') | 108 | 120 | | | | | | | | | | |
| 880-16078-12 | S-2 (5') | 99 | 110 | | | | | | | | | | |
| 880-16078-13 | S-3 (0-1') | 89 | 99 | | | | | | | | | | |
| 880-16078-14 | S-4 (0-1') | 92 | 101 | | | | | | | | | | |
| 880-16078-15 | S-5 (0-1') | 95 | 105 | | | | | | | | | | |
| 880-16078-16 | S-6 (0-1') | 91 | 104 | | | | | | | | | | |
| 880-16078-17 | S-7 (0-1') | 98 | 105 | | | | | | | | | | |
| 880-16078-18 | H-1 (0-0.5') | 86 | 92 | | | | | | | | | | |
| 880-16078-19 | H-2 (0-0.5') | 93 | 104 | | | | | | | | | | |
| 880-16078-20 | H-3 (0-0.5') | 99 | 104 | | | | | | | | | | |
| 880-16078-21 | H-4 (0-0.5') | 102 | 111 | | | | | | | | | | |
| 880-16078-21 MS | H-4 (0-0.5') | 82 | 79 | | | | | | | | | | |
| 880-16078-21 MSD | H-4 (0-0.5') | 86 | 82 | | | | | | | | | | |
| 880-16078-22 | H-5 (0-0.5') | 95 | 106 | | | | | | | | | | |
| 880-16078-23 | H-6 (0-0.5') | 90 | 102 | | | | | | | | | | |
| 880-16078-24 | H-7 (0-0.5') | 97 | 109 | | | | | | | | | | |
| 880-16078-25 | H-8 (0-0.5') | 87 | 97 | | | | | | | | | | |
| 880-16078-26 | H-9 (0-0.5') | 94 | 103 | | | | | | | | | | |
| LCS 880-28030/2-A | Lab Control Sample | 91 | 101 | | | | | | | | | | |
| LCS 880-28045/2-A | Lab Control Sample | 104 | 110 | | | | | | | | | | |
| LCSD 880-28030/3-A | Lab Control Sample Dup | 92 | 96 | | | | | | | | | | |
| LCSD 880-28045/3-A | Lab Control Sample Dup | 104 | 113 | | | | | | | | | | |
| MB 880-28030/1-A | Method Blank | 90 | 103 | | | | | | | | | | |
| MB 880-28045/1-A | Method Blank | 102 | 119 | | | | | | | | | | |

**Surrogate Legend**

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: MB 880-27988/5-A**
**Matrix: Solid**
**Analysis Batch: 28002**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 27988**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/22 16:40 | 06/21/22 13:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/22 16:40 | 06/21/22 13:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/22 16:40 | 06/21/22 13:16 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 06/20/22 16:40 | 06/21/22 13:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/20/22 16:40 | 06/21/22 13:16 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 06/20/22 16:40 | 06/21/22 13:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | *06/20/22 16:40* | *06/21/22 13:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *87* | | *70 - 130* | *06/20/22 16:40* | *06/21/22 13:16* | *1* |

**Lab Sample ID: MB 880-28068/5-A**
**Matrix: Solid**
**Analysis Batch: 28002**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 28068**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 02:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 02:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 02:45 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 02:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 02:45 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 06/21/22 15:28 | 06/22/22 02:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | *06/21/22 15:28* | *06/22/22 02:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* | *06/21/22 15:28* | *06/22/22 02:45* | *1* |

**Lab Sample ID: LCS 880-28068/1-A**
**Matrix: Solid**
**Analysis Batch: 28002**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28068**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1029 | | mg/Kg | | 103 | 70 - 130 |
| Toluene | 0.100 | 0.1051 | | mg/Kg | | 105 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1113 | | mg/Kg | | 111 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2225 | | mg/Kg | | 111 | 70 - 130 |
| o-Xylene | 0.100 | 0.1117 | | mg/Kg | | 112 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *135* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* |

**Lab Sample ID: LCSD 880-28068/2-A**
**Matrix: Solid**
**Analysis Batch: 28002**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 28068**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1071 | | mg/Kg | | 107 | 70 - 130 | 4 | 35 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: LCSD 880-28068/2-A**
**Matrix: Solid**
**Analysis Batch: 28002**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 28068**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | | | 0.100 | 0.1109 | | mg/Kg | | 111 | 70 - 130 | 5 | 35 |
| Ethylbenzene | | | 0.100 | 0.1153 | | mg/Kg | | 115 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2294 | | mg/Kg | | 115 | 70 - 130 | 3 | 35 |
| o-Xylene | | | 0.100 | 0.1143 | | mg/Kg | | 114 | 70 - 130 | 2 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *137* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *85* | | *70 - 130* |

**Lab Sample ID: 820-4663-A-74-C MS**
**Matrix: Solid**
**Analysis Batch: 28002**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 28068**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.100 | 0.07173 | | mg/Kg | | 72 | 70 - 130 |
| Toluene | <0.00201 | U | 0.100 | 0.07389 | | mg/Kg | | 74 | 70 - 130 |
| Ethylbenzene | <0.00201 | U | 0.100 | 0.07931 | | mg/Kg | | 79 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.200 | 0.1564 | | mg/Kg | | 78 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.100 | 0.07677 | | mg/Kg | | 77 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *132* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* |

**Lab Sample ID: 820-4663-A-74-D MSD**
**Matrix: Solid**
**Analysis Batch: 28002**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 28068**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.0996 | 0.08913 | | mg/Kg | | 89 | 70 - 130 | 22 | 35 |
| Toluene | <0.00201 | U | 0.0996 | 0.09006 | | mg/Kg | | 90 | 70 - 130 | 20 | 35 |
| Ethylbenzene | <0.00201 | U | 0.0996 | 0.09277 | | mg/Kg | | 93 | 70 - 130 | 16 | 35 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.199 | 0.1817 | | mg/Kg | | 91 | 70 - 130 | 15 | 35 |
| o-Xylene | <0.00201 | U | 0.0996 | 0.09147 | | mg/Kg | | 92 | 70 - 130 | 17 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *139* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: MB 880-28109/5-A**
**Matrix: Solid**
**Analysis Batch: 28093**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 28109**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 15:18 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 15:18 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 15:18 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 15:18 | 1 |

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# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: MB 880-28109/5-A**
**Matrix: Solid**
**Analysis Batch: 28093**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 28109**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 15:18 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 06/22/22 09:54 | 06/22/22 15:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 15:18* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *06/22/22 09:54* | *06/22/22 15:18* | *1* |

**Lab Sample ID: LCS 880-28109/1-A**
**Matrix: Solid**
**Analysis Batch: 28093**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28109**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1111 | | mg/Kg | | 111 | 70 - 130 |
| Toluene | 0.100 | 0.09953 | | mg/Kg | | 100 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.08342 | | mg/Kg | | 83 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1608 | | mg/Kg | | 80 | 70 - 130 |
| o-Xylene | 0.100 | 0.08874 | | mg/Kg | | 89 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* |

**Lab Sample ID: LCSD 880-28109/2-A**
**Matrix: Solid**
**Analysis Batch: 28093**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 28109**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.09307 | | mg/Kg | | 93 | 70 - 130 | 18 | 35 |
| Toluene | 0.100 | 0.1074 | | mg/Kg | | 107 | 70 - 130 | 8 | 35 |
| Ethylbenzene | 0.100 | 0.1046 | | mg/Kg | | 105 | 70 - 130 | 22 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2178 | | mg/Kg | | 109 | 70 - 130 | 30 | 35 |
| o-Xylene | 0.100 | 0.1207 | | mg/Kg | | 121 | 70 - 130 | 31 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: 880-16170-A-2-B MS**
**Matrix: Solid**
**Analysis Batch: 28093**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 28109**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0998 | 0.08502 | | mg/Kg | | 85 | 70 - 130 |
| Toluene | <0.00202 | U | 0.0998 | 0.07700 | | mg/Kg | | 77 | 70 - 130 |
| Ethylbenzene | <0.00202 | U F1 | 0.0998 | 0.06401 | F1 | mg/Kg | | 64 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.200 | 0.1238 | F1 | mg/Kg | | 62 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.0998 | 0.07016 | | mg/Kg | | 70 | 70 - 130 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16170-A-2-B MS**
**Matrix: Solid**
**Analysis Batch: 28093**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 28109**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 |

**Lab Sample ID: 880-16170-A-2-C MSD**
**Matrix: Solid**
**Analysis Batch: 28093**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 28109**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.101 | 0.1023 | | mg/Kg | | 101 | 70 - 130 | 18 | 35 |
| Toluene | <0.00202 | U | 0.101 | 0.08979 | | mg/Kg | | 89 | 70 - 130 | 15 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.101 | 0.07376 | | mg/Kg | | 73 | 70 - 130 | 14 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.202 | 0.1398 | F1 | mg/Kg | | 69 | 70 - 130 | 12 | 35 |
| o-Xylene | <0.00202 | U | 0.101 | 0.07887 | | mg/Kg | | 78 | 70 - 130 | 12 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 |

**Lab Sample ID: MB 880-28110/5-A**
**Matrix: Solid**
**Analysis Batch: 28092**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 28110**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 11:24 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 11:24 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 11:24 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 11:24 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 11:24 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 06/22/22 09:57 | 06/22/22 11:24 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | 06/22/22 09:57 | 06/22/22 11:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | 06/22/22 09:57 | 06/22/22 11:24 | 1 |

**Lab Sample ID: LCS 880-28110/1-A**
**Matrix: Solid**
**Analysis Batch: 28092**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28110**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1010 | | mg/Kg | | 101 | 70 - 130 |
| Toluene | 0.100 | 0.09961 | | mg/Kg | | 100 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1046 | | mg/Kg | | 105 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2149 | | mg/Kg | | 107 | 70 - 130 |
| o-Xylene | 0.100 | 0.1082 | | mg/Kg | | 108 | 70 - 130 |

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

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: LCS 880-28110/1-A**
**Matrix: Solid**
**Analysis Batch: 28092**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28110**

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

**Lab Sample ID: LCSD 880-28110/2-A**
**Matrix: Solid**
**Analysis Batch: 28092**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 28110**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09688 | | mg/Kg | | 97 | 70 - 130 | 4 | 35 |
| Toluene | | | 0.100 | 0.09543 | | mg/Kg | | 95 | 70 - 130 | 4 | 35 |
| Ethylbenzene | | | 0.100 | 0.09857 | | mg/Kg | | 99 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2034 | | mg/Kg | | 102 | 70 - 130 | 6 | 35 |
| o-Xylene | | | 0.100 | 0.1027 | | mg/Kg | | 103 | 70 - 130 | 5 | 35 |

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

**Lab Sample ID: 880-16162-A-1-B MS**
**Matrix: Solid**
**Analysis Batch: 28092**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 28110**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 | 0.100 | 0.06858 | F1 | mg/Kg | | 68 | 70 - 130 | | |
| Toluene | <0.00199 | U F1 | 0.100 | 0.06739 | F1 | mg/Kg | | 67 | 70 - 130 | | |
| Ethylbenzene | <0.00199 | U F1 | 0.100 | 0.06844 | F1 | mg/Kg | | 68 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1409 | | mg/Kg | | 70 | 70 - 130 | | |
| o-Xylene | <0.00199 | U | 0.100 | 0.07154 | | mg/Kg | | 71 | 70 - 130 | | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 |

**Lab Sample ID: 880-16162-A-1-C MSD**
**Matrix: Solid**
**Analysis Batch: 28092**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 28110**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U F1 | 0.100 | 0.08709 | | mg/Kg | | 87 | 70 - 130 | 24 | 35 |
| Toluene | <0.00199 | U F1 | 0.100 | 0.08310 | | mg/Kg | | 83 | 70 - 130 | 21 | 35 |
| Ethylbenzene | <0.00199 | U F1 | 0.100 | 0.08633 | | mg/Kg | | 86 | 70 - 130 | 23 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1769 | | mg/Kg | | 88 | 70 - 130 | 23 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.08870 | | mg/Kg | | 89 | 70 - 130 | 21 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: MB 880-28204/5-A**
**Matrix: Solid**
**Analysis Batch: 28203**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 28204**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:34 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:34 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 06/23/22 08:59 | 06/23/22 11:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 11:34* | *1* |
| *1,4-Difluorobenzene (Surr)* | *88* | | *70 - 130* | *06/23/22 08:59* | *06/23/22 11:34* | *1* |

**Lab Sample ID: LCS 880-28204/1-A**
**Matrix: Solid**
**Analysis Batch: 28203**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28204**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.09114 | | mg/Kg | | 91 | 70 - 130 |
| Toluene | 0.100 | 0.09051 | | mg/Kg | | 91 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09526 | | mg/Kg | | 95 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1977 | | mg/Kg | | 99 | 70 - 130 |
| o-Xylene | 0.100 | 0.09916 | | mg/Kg | | 99 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: LCSD 880-28204/2-A**
**Matrix: Solid**
**Analysis Batch: 28203**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 28204**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.09688 | | mg/Kg | | 97 | 70 - 130 | 6 | 35 |
| Toluene | 0.100 | 0.09613 | | mg/Kg | | 96 | 70 - 130 | 6 | 35 |
| Ethylbenzene | 0.100 | 0.1026 | | mg/Kg | | 103 | 70 - 130 | 7 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2134 | | mg/Kg | | 107 | 70 - 130 | 8 | 35 |
| o-Xylene | 0.100 | 0.1069 | | mg/Kg | | 107 | 70 - 130 | 8 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: 880-16078-20 MS**
**Matrix: Solid**
**Analysis Batch: 28203**

**Client Sample ID: H-3 (0-0.5')**
**Prep Type: Total/NA**
**Prep Batch: 28204**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.0996 | 0.08174 | | mg/Kg | | 82 | 70 - 130 |
| Toluene | <0.00200 | U | 0.0996 | 0.09346 | | mg/Kg | | 94 | 70 - 130 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-20 MS**
**Matrix: Solid**
**Analysis Batch: 28203**

**Client Sample ID: H-3 (0-0.5')**
**Prep Type: Total/NA**
**Prep Batch: 28204**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U | 0.0996 | 0.1013 | | mg/Kg | | 102 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.199 | 0.2079 | | mg/Kg | | 104 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.0996 | 0.1044 | | mg/Kg | | 105 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* |

**Lab Sample ID: 880-16078-20 MSD**
**Matrix: Solid**
**Analysis Batch: 28203**

**Client Sample ID: H-3 (0-0.5')**
**Prep Type: Total/NA**
**Prep Batch: 28204**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.0994 | 0.07711 | | mg/Kg | | 78 | 70 - 130 | 6 | 35 |
| Toluene | <0.00200 | U | 0.0994 | 0.08727 | | mg/Kg | | 88 | 70 - 130 | 7 | 35 |
| Ethylbenzene | <0.00200 | U | 0.0994 | 0.09202 | | mg/Kg | | 93 | 70 - 130 | 10 | 35 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.199 | 0.1870 | | mg/Kg | | 94 | 70 - 130 | 11 | 35 |
| o-Xylene | <0.00200 | U | 0.0994 | 0.09287 | | mg/Kg | | 93 | 70 - 130 | 12 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* |

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

**Lab Sample ID: MB 880-28030/1-A**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 28030**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 12:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 12:13 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 12:13 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 09:55 | 06/21/22 12:13 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *90* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 12:13* | *1* |
| *o-Terphenyl* | *103* | | *70 - 130* | *06/21/22 09:55* | *06/21/22 12:13* | *1* |

**Lab Sample ID: LCS 880-28030/2-A**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28030**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1025 | | mg/Kg | | 102 | 70 - 130 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: LCS 880-28030/2-A**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28030**

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

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *91* | | *70 - 130* |
| *o-Terphenyl* | *101* | | *70 - 130* |

**Lab Sample ID: LCSD 880-28030/3-A**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 28030**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1067 | | mg/Kg | | 107 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1000 | | mg/Kg | | 100 | 70 - 130 | 5 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *92* | | *70 - 130* |
| *o-Terphenyl* | *96* | | *70 - 130* |

**Lab Sample ID: 880-16078-1 MS**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: S-1 (0-1')**
**Prep Type: Total/NA**
**Prep Batch: 28030**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 998 | 992.5 | | mg/Kg | | 95 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 851.2 | | mg/Kg | | 85 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* |
| *o-Terphenyl* | *94* | | *70 - 130* |

**Lab Sample ID: 880-16078-1 MSD**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: S-1 (0-1')**
**Prep Type: Total/NA**
**Prep Batch: 28030**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 1019 | | mg/Kg | | 98 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 871.1 | | mg/Kg | | 87 | 70 - 130 | 2 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *95* | | *70 - 130* |
| *o-Terphenyl* | *93* | | *70 - 130* |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: MB 880-28045/1-A**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 28045**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 21:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 21:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 21:37 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 06/21/22 11:35 | 06/21/22 21:37 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *102* | | *70 - 130* | *06/21/22 11:35* | *06/21/22 21:37* | *1* |
| *o-Terphenyl* | *119* | | *70 - 130* | *06/21/22 11:35* | *06/21/22 21:37* | *1* |

**Lab Sample ID: LCS 880-28045/2-A**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 28045**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 992.5 | | mg/Kg | | 99 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1042 | | mg/Kg | | 104 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *104* | | *70 - 130* |
| *o-Terphenyl* | *110* | | *70 - 130* |

**Lab Sample ID: LCSD 880-28045/3-A**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 28045**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1036 | | mg/Kg | | 104 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1061 | | mg/Kg | | 106 | 70 - 130 | 2 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *104* | | *70 - 130* |
| *o-Terphenyl* | *113* | | *70 - 130* |

**Lab Sample ID: 880-16078-21 MS**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: H-4 (0-0.5')**
**Prep Type: Total/NA**
**Prep Batch: 28045**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 998 | 905.3 | | mg/Kg | | 87 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 799.1 | | mg/Kg | | 80 | 70 - 130 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-21 MS**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: H-4 (0-0.5')**
**Prep Type: Total/NA**
**Prep Batch: 28045**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 82 | | 70 - 130 |
| o-Terphenyl | 79 | | 70 - 130 |

**Lab Sample ID: 880-16078-21 MSD**
**Matrix: Solid**
**Analysis Batch: 27998**

**Client Sample ID: H-4 (0-0.5')**
**Prep Type: Total/NA**
**Prep Batch: 28045**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 933.1 | | mg/Kg | | 89 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 845.4 | | mg/Kg | | 85 | 70 - 130 | 6 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 86 | | 70 - 130 |
| o-Terphenyl | 82 | | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-28057/1-A**
**Matrix: Solid**
**Analysis Batch: 28168**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 06/23/22 08:39 | 1 |

**Lab Sample ID: LCS 880-28057/2-A**
**Matrix: Solid**
**Analysis Batch: 28168**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 266.8 | | mg/Kg | | 107 | 90 - 110 |

**Lab Sample ID: LCSD 880-28057/3-A**
**Matrix: Solid**
**Analysis Batch: 28168**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 250 | 266.1 | | mg/Kg | | 106 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-16078-22 MS**
**Matrix: Solid**
**Analysis Batch: 28168**

**Client Sample ID: H-5 (0-0.5')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 28.2 | F1 | 250 | 184.4 | F1 | mg/Kg | | 62 | 90 - 110 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 880-16078-22 MSD**
**Matrix: Solid**
**Analysis Batch: 28168**

**Client Sample ID: H-5 (0-0.5')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 28.2 | F1 | 250 | 185.4 | F1 | mg/Kg | | 63 | 90 - 110 | 1 | 20 |

**Lab Sample ID: MB 880-28058/1-A**
**Matrix: Solid**
**Analysis Batch: 28228**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 06/25/22 22:34 | 1 |

**Lab Sample ID: LCS 880-28058/2-A**
**Matrix: Solid**
**Analysis Batch: 28228**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 272.3 | | mg/Kg | | 109 | 90 - 110 |

**Lab Sample ID: LCSD 880-28058/3-A**
**Matrix: Solid**
**Analysis Batch: 28228**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 250 | 274.1 | | mg/Kg | | 110 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-16078-1 MS**
**Matrix: Solid**
**Analysis Batch: 28228**

**Client Sample ID: S-1 (0-1')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 90.9 | F1 | 252 | 363.8 | | mg/Kg | | 109 | 90 - 110 |

**Lab Sample ID: 880-16078-1 MSD**
**Matrix: Solid**
**Analysis Batch: 28228**

**Client Sample ID: S-1 (0-1')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 90.9 | F1 | 252 | 370.4 | F1 | mg/Kg | | 111 | 90 - 110 | 2 | 20 |

**Lab Sample ID: 880-16078-11 MS**
**Matrix: Solid**
**Analysis Batch: 28228**

**Client Sample ID: S-2 (4')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3930 | F1 | 1240 | 5412 | F1 | mg/Kg | | 119 | 90 - 110 |

**Lab Sample ID: 880-16078-11 MSD**
**Matrix: Solid**
**Analysis Batch: 28228**

**Client Sample ID: S-2 (4')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3930 | F1 | 1240 | 5439 | F1 | mg/Kg | | 121 | 90 - 110 | 0 | 20 |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## GC VOA

### Prep Batch: 27988

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-27988/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 28002

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Total/NA | Solid | 8021B | 28068 |
| 880-16078-2 | S-1 (1.5') | Total/NA | Solid | 8021B | 28068 |
| 880-16078-3 | S-1 (2') | Total/NA | Solid | 8021B | 28068 |
| 880-16078-4 | S-1 (3') | Total/NA | Solid | 8021B | 28068 |
| 880-16078-5 | S-1 (4') | Total/NA | Solid | 8021B | 28068 |
| MB 880-27988/5-A | Method Blank | Total/NA | Solid | 8021B | 27988 |
| MB 880-28068/5-A | Method Blank | Total/NA | Solid | 8021B | 28068 |
| LCS 880-28068/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 28068 |
| LCSD 880-28068/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 28068 |
| 820-4663-A-74-C MS | Matrix Spike | Total/NA | Solid | 8021B | 28068 |
| 820-4663-A-74-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 28068 |

### Prep Batch: 28068

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Total/NA | Solid | 5035 | |
| 880-16078-2 | S-1 (1.5') | Total/NA | Solid | 5035 | |
| 880-16078-3 | S-1 (2') | Total/NA | Solid | 5035 | |
| 880-16078-4 | S-1 (3') | Total/NA | Solid | 5035 | |
| 880-16078-5 | S-1 (4') | Total/NA | Solid | 5035 | |
| MB 880-28068/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-28068/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-28068/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 820-4663-A-74-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 820-4663-A-74-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Analysis Batch: 28092

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-6 | S-1 (5') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-7 | S-2 (0-1') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-8 | S-2 (1.5') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-9 | S-2 (2') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-10 | S-2 (3') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-11 | S-2 (4') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-12 | S-2 (5') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-13 | S-3 (0-1') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-14 | S-4 (0-1') | Total/NA | Solid | 8021B | 28110 |
| 880-16078-15 | S-5 (0-1') | Total/NA | Solid | 8021B | 28110 |
| MB 880-28110/5-A | Method Blank | Total/NA | Solid | 8021B | 28110 |
| LCS 880-28110/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 28110 |
| LCSD 880-28110/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 28110 |
| 880-16162-A-1-B MS | Matrix Spike | Total/NA | Solid | 8021B | 28110 |
| 880-16162-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 28110 |

### Analysis Batch: 28093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-16 | S-6 (0-1') | Total/NA | Solid | 8021B | 28109 |
| 880-16078-17 | S-7 (0-1') | Total/NA | Solid | 8021B | 28109 |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## GC VOA (Continued)

### Analysis Batch: 28093 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-18 | H-1 (0-0.5') | Total/NA | Solid | 8021B | 28109 |
| 880-16078-19 | H-2 (0-0.5') | Total/NA | Solid | 8021B | 28109 |
| MB 880-28109/5-A | Method Blank | Total/NA | Solid | 8021B | 28109 |
| LCS 880-28109/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 28109 |
| LCSD 880-28109/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 28109 |
| 880-16170-A-2-B MS | Matrix Spike | Total/NA | Solid | 8021B | 28109 |
| 880-16170-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 28109 |

### Prep Batch: 28109

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-16 | S-6 (0-1') | Total/NA | Solid | 5035 | |
| 880-16078-17 | S-7 (0-1') | Total/NA | Solid | 5035 | |
| 880-16078-18 | H-1 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-19 | H-2 (0-0.5') | Total/NA | Solid | 5035 | |
| MB 880-28109/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-28109/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-28109/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-16170-A-2-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-16170-A-2-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Prep Batch: 28110

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-6 | S-1 (5') | Total/NA | Solid | 5035 | |
| 880-16078-7 | S-2 (0-1') | Total/NA | Solid | 5035 | |
| 880-16078-8 | S-2 (1.5') | Total/NA | Solid | 5035 | |
| 880-16078-9 | S-2 (2') | Total/NA | Solid | 5035 | |
| 880-16078-10 | S-2 (3') | Total/NA | Solid | 5035 | |
| 880-16078-11 | S-2 (4') | Total/NA | Solid | 5035 | |
| 880-16078-12 | S-2 (5') | Total/NA | Solid | 5035 | |
| 880-16078-13 | S-3 (0-1') | Total/NA | Solid | 5035 | |
| 880-16078-14 | S-4 (0-1') | Total/NA | Solid | 5035 | |
| 880-16078-15 | S-5 (0-1') | Total/NA | Solid | 5035 | |
| MB 880-28110/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-28110/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-28110/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-16162-A-1-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-16162-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Analysis Batch: 28203

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-20 | H-3 (0-0.5') | Total/NA | Solid | 8021B | 28204 |
| 880-16078-21 | H-4 (0-0.5') | Total/NA | Solid | 8021B | 28204 |
| 880-16078-22 | H-5 (0-0.5') | Total/NA | Solid | 8021B | 28204 |
| 880-16078-23 | H-6 (0-0.5') | Total/NA | Solid | 8021B | 28204 |
| 880-16078-24 | H-7 (0-0.5') | Total/NA | Solid | 8021B | 28204 |
| 880-16078-25 | H-8 (0-0.5') | Total/NA | Solid | 8021B | 28204 |
| 880-16078-26 | H-9 (0-0.5') | Total/NA | Solid | 8021B | 28204 |
| MB 880-28204/5-A | Method Blank | Total/NA | Solid | 8021B | 28204 |
| LCS 880-28204/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 28204 |
| LCSD 880-28204/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 28204 |
| 880-16078-20 MS | H-3 (0-0.5') | Total/NA | Solid | 8021B | 28204 |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## GC VOA (Continued)

### Analysis Batch: 28203 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-20 MSD | H-3 (0-0.5') | Total/NA | Solid | 8021B | 28204 |

### Prep Batch: 28204

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-20 | H-3 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-21 | H-4 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-22 | H-5 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-23 | H-6 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-24 | H-7 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-25 | H-8 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-26 | H-9 (0-0.5') | Total/NA | Solid | 5035 | |
| MB 880-28204/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-28204/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-28204/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-16078-20 MS | H-3 (0-0.5') | Total/NA | Solid | 5035 | |
| 880-16078-20 MSD | H-3 (0-0.5') | Total/NA | Solid | 5035 | |

### Analysis Batch: 28225

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-16078-2 | S-1 (1.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-3 | S-1 (2') | Total/NA | Solid | Total BTEX | |
| 880-16078-4 | S-1 (3') | Total/NA | Solid | Total BTEX | |
| 880-16078-5 | S-1 (4') | Total/NA | Solid | Total BTEX | |
| 880-16078-6 | S-1 (5') | Total/NA | Solid | Total BTEX | |
| 880-16078-7 | S-2 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-16078-8 | S-2 (1.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-9 | S-2 (2') | Total/NA | Solid | Total BTEX | |
| 880-16078-10 | S-2 (3') | Total/NA | Solid | Total BTEX | |
| 880-16078-11 | S-2 (4') | Total/NA | Solid | Total BTEX | |
| 880-16078-12 | S-2 (5') | Total/NA | Solid | Total BTEX | |
| 880-16078-13 | S-3 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-16078-14 | S-4 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-16078-15 | S-5 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-16078-16 | S-6 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-16078-17 | S-7 (0-1') | Total/NA | Solid | Total BTEX | |
| 880-16078-18 | H-1 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-19 | H-2 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-20 | H-3 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-21 | H-4 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-22 | H-5 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-23 | H-6 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-24 | H-7 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-25 | H-8 (0-0.5') | Total/NA | Solid | Total BTEX | |
| 880-16078-26 | H-9 (0-0.5') | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Analysis Batch: 27998

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Total/NA | Solid | 8015B NM | 28030 |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## GC Semi VOA (Continued)

### Analysis Batch: 27998 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-2 | S-1 (1.5') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-3 | S-1 (2') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-4 | S-1 (3') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-5 | S-1 (4') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-6 | S-1 (5') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-7 | S-2 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-8 | S-2 (1.5') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-9 | S-2 (2') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-10 | S-2 (3') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-11 | S-2 (4') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-12 | S-2 (5') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-13 | S-3 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-14 | S-4 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-15 | S-5 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-16 | S-6 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-17 | S-7 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-18 | H-1 (0-0.5') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-19 | H-2 (0-0.5') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-20 | H-3 (0-0.5') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-21 | H-4 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |
| 880-16078-22 | H-5 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |
| 880-16078-23 | H-6 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |
| 880-16078-24 | H-7 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |
| 880-16078-25 | H-8 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |
| 880-16078-26 | H-9 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |
| MB 880-28030/1-A | Method Blank | Total/NA | Solid | 8015B NM | 28030 |
| MB 880-28045/1-A | Method Blank | Total/NA | Solid | 8015B NM | 28045 |
| LCS 880-28030/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 28030 |
| LCS 880-28045/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 28045 |
| LCSD 880-28030/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 28030 |
| LCSD 880-28045/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 28045 |
| 880-16078-1 MS | S-1 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-1 MSD | S-1 (0-1') | Total/NA | Solid | 8015B NM | 28030 |
| 880-16078-21 MS | H-4 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |
| 880-16078-21 MSD | H-4 (0-0.5') | Total/NA | Solid | 8015B NM | 28045 |

### Prep Batch: 28030

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-2 | S-1 (1.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-3 | S-1 (2') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-4 | S-1 (3') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-5 | S-1 (4') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-6 | S-1 (5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-7 | S-2 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-8 | S-2 (1.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-9 | S-2 (2') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-10 | S-2 (3') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-11 | S-2 (4') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-12 | S-2 (5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-13 | S-3 (0-1') | Total/NA | Solid | 8015NM Prep | |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## GC Semi VOA (Continued)

### Prep Batch: 28030 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-14 | S-4 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-15 | S-5 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-16 | S-6 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-17 | S-7 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-18 | H-1 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-19 | H-2 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-20 | H-3 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| MB 880-28030/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-28030/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-28030/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-16078-1 MS | S-1 (0-1') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-1 MSD | S-1 (0-1') | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 28045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-21 | H-4 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-22 | H-5 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-23 | H-6 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-24 | H-7 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-25 | H-8 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-26 | H-9 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| MB 880-28045/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-28045/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-28045/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-16078-21 MS | H-4 (0-0.5') | Total/NA | Solid | 8015NM Prep | |
| 880-16078-21 MSD | H-4 (0-0.5') | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 28125

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-16078-2 | S-1 (1.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-3 | S-1 (2') | Total/NA | Solid | 8015 NM | |
| 880-16078-4 | S-1 (3') | Total/NA | Solid | 8015 NM | |
| 880-16078-5 | S-1 (4') | Total/NA | Solid | 8015 NM | |
| 880-16078-6 | S-1 (5') | Total/NA | Solid | 8015 NM | |
| 880-16078-7 | S-2 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-16078-8 | S-2 (1.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-9 | S-2 (2') | Total/NA | Solid | 8015 NM | |
| 880-16078-10 | S-2 (3') | Total/NA | Solid | 8015 NM | |
| 880-16078-11 | S-2 (4') | Total/NA | Solid | 8015 NM | |
| 880-16078-12 | S-2 (5') | Total/NA | Solid | 8015 NM | |
| 880-16078-13 | S-3 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-16078-14 | S-4 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-16078-15 | S-5 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-16078-16 | S-6 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-16078-17 | S-7 (0-1') | Total/NA | Solid | 8015 NM | |
| 880-16078-18 | H-1 (0-0.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-19 | H-2 (0-0.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-20 | H-3 (0-0.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-21 | H-4 (0-0.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-22 | H-5 (0-0.5') | Total/NA | Solid | 8015 NM | |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## GC Semi VOA (Continued)

### Analysis Batch: 28125 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-23 | H-6 (0-0.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-24 | H-7 (0-0.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-25 | H-8 (0-0.5') | Total/NA | Solid | 8015 NM | |
| 880-16078-26 | H-9 (0-0.5') | Total/NA | Solid | 8015 NM | |

## HPLC/IC

### Leach Batch: 28057

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-21 | H-4 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-22 | H-5 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-23 | H-6 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-24 | H-7 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-25 | H-8 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-26 | H-9 (0-0.5') | Soluble | Solid | DI Leach | |
| MB 880-28057/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-28057/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-28057/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-16078-22 MS | H-5 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-22 MSD | H-5 (0-0.5') | Soluble | Solid | DI Leach | |

### Leach Batch: 28058

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-2 | S-1 (1.5') | Soluble | Solid | DI Leach | |
| 880-16078-3 | S-1 (2') | Soluble | Solid | DI Leach | |
| 880-16078-4 | S-1 (3') | Soluble | Solid | DI Leach | |
| 880-16078-5 | S-1 (4') | Soluble | Solid | DI Leach | |
| 880-16078-6 | S-1 (5') | Soluble | Solid | DI Leach | |
| 880-16078-7 | S-2 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-8 | S-2 (1.5') | Soluble | Solid | DI Leach | |
| 880-16078-9 | S-2 (2') | Soluble | Solid | DI Leach | |
| 880-16078-10 | S-2 (3') | Soluble | Solid | DI Leach | |
| 880-16078-11 | S-2 (4') | Soluble | Solid | DI Leach | |
| 880-16078-12 | S-2 (5') | Soluble | Solid | DI Leach | |
| 880-16078-13 | S-3 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-14 | S-4 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-15 | S-5 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-16 | S-6 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-17 | S-7 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-18 | H-1 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-19 | H-2 (0-0.5') | Soluble | Solid | DI Leach | |
| 880-16078-20 | H-3 (0-0.5') | Soluble | Solid | DI Leach | |
| MB 880-28058/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-28058/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-28058/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-16078-1 MS | S-1 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-1 MSD | S-1 (0-1') | Soluble | Solid | DI Leach | |
| 880-16078-11 MS | S-2 (4') | Soluble | Solid | DI Leach | |
| 880-16078-11 MSD | S-2 (4') | Soluble | Solid | DI Leach | |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## HPLC/IC

### Analysis Batch: 28168

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-21 | H-4 (0-0.5') | Soluble | Solid | 300.0 | 28057 |
| 880-16078-22 | H-5 (0-0.5') | Soluble | Solid | 300.0 | 28057 |
| 880-16078-23 | H-6 (0-0.5') | Soluble | Solid | 300.0 | 28057 |
| 880-16078-24 | H-7 (0-0.5') | Soluble | Solid | 300.0 | 28057 |
| 880-16078-25 | H-8 (0-0.5') | Soluble | Solid | 300.0 | 28057 |
| 880-16078-26 | H-9 (0-0.5') | Soluble | Solid | 300.0 | 28057 |
| MB 880-28057/1-A | Method Blank | Soluble | Solid | 300.0 | 28057 |
| LCS 880-28057/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 28057 |
| LCSD 880-28057/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 28057 |
| 880-16078-22 MS | H-5 (0-0.5') | Soluble | Solid | 300.0 | 28057 |
| 880-16078-22 MSD | H-5 (0-0.5') | Soluble | Solid | 300.0 | 28057 |

### Analysis Batch: 28228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-2 | S-1 (1.5') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-3 | S-1 (2') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-4 | S-1 (3') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-5 | S-1 (4') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-6 | S-1 (5') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-7 | S-2 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-8 | S-2 (1.5') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-9 | S-2 (2') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-10 | S-2 (3') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-11 | S-2 (4') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-12 | S-2 (5') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-13 | S-3 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-14 | S-4 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-15 | S-5 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-16 | S-6 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-17 | S-7 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-18 | H-1 (0-0.5') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-19 | H-2 (0-0.5') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-20 | H-3 (0-0.5') | Soluble | Solid | 300.0 | 28058 |
| MB 880-28058/1-A | Method Blank | Soluble | Solid | 300.0 | 28058 |
| LCS 880-28058/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 28058 |
| LCSD 880-28058/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 28058 |
| 880-16078-1 MS | S-1 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-1 MSD | S-1 (0-1') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-11 MS | S-2 (4') | Soluble | Solid | 300.0 | 28058 |
| 880-16078-11 MSD | S-2 (4') | Soluble | Solid | 300.0 | 28058 |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-1**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28068 | 06/21/22 15:28 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 28002 | 06/22/22 11:45 | EL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 13:17 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/25/22 22:57 | SC | XEN MID |

## Client Sample ID: S-1 (1.5')

**Lab Sample ID: 880-16078-2**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28068 | 06/21/22 15:28 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 28002 | 06/22/22 12:11 | EL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 14:19 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/25/22 23:21 | SC | XEN MID |

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

**Lab Sample ID: 880-16078-3**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28068 | 06/21/22 15:28 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 28002 | 06/22/22 12:37 | EL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 14:39 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/25/22 23:29 | SC | XEN MID |

## Client Sample ID: S-1 (3')

**Lab Sample ID: 880-16078-4**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 28068 | 06/21/22 15:28 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 28002 | 06/22/22 13:03 | EL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-1 (3')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-4**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 15:00 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/25/22 23:36 | SC | XEN MID |

## Client Sample ID: S-1 (4')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-5**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 28068 | 06/21/22 15:28 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 28002 | 06/22/22 13:29 | EL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 15:21 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/25/22 23:44 | SC | XEN MID |

## Client Sample ID: S-1 (5')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-6**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 16:13 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 15:42 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/26/22 00:08 | SC | XEN MID |

## Client Sample ID: S-2 (0-1')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-7**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 17:02 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 16:03 | SM | XEN MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-7**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 00:16 | SC | XEN MID |

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

**Lab Sample ID: 880-16078-8**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 17:22 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 16:24 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 00:24 | SC | XEN MID |

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

**Lab Sample ID: 880-16078-9**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 17:43 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 16:44 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/26/22 00:31 | SC | XEN MID |

## Client Sample ID: S-2 (3')

**Lab Sample ID: 880-16078-10**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 18:03 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 17:05 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/26/22 00:39 | SC | XEN MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-2 (4')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-11**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 18:24 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 17:47 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/26/22 00:47 | SC | XEN MID |

## Client Sample ID: S-2 (5')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-12**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 18:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 18:08 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 28228 | 06/28/22 13:04 | SC | XEN MID |

## Client Sample ID: S-3 (0-1')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-13**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 19:05 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 18:29 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 01:18 | SC | XEN MID |

## Client Sample ID: S-4 (0-1')
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

**Lab Sample ID: 880-16078-14**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 19:25 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-4 (0-1')

**Lab Sample ID: 880-16078-14**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 18:50 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 01:42 | SC | XEN MID |

## Client Sample ID: S-5 (0-1')

**Lab Sample ID: 880-16078-15**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28110 | 06/22/22 09:57 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28092 | 06/22/22 19:46 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 19:11 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 01:50 | SC | XEN MID |

## Client Sample ID: S-6 (0-1')

**Lab Sample ID: 880-16078-16**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 28109 | 06/22/22 09:54 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28093 | 06/22/22 17:02 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 19:32 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 01:58 | SC | XEN MID |

## Client Sample ID: S-7 (0-1')

**Lab Sample ID: 880-16078-17**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 28109 | 06/22/22 09:54 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28093 | 06/22/22 17:22 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 19:52 | SM | XEN MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: S-7 (0-1')

**Lab Sample ID: 880-16078-17**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 02:06 | SC | XEN MID |

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

**Lab Sample ID: 880-16078-18**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28109 | 06/22/22 09:54 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28093 | 06/22/22 17:43 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 20:13 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 02:13 | SC | XEN MID |

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

**Lab Sample ID: 880-16078-19**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28109 | 06/22/22 09:54 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28093 | 06/22/22 18:04 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 20:34 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 02:21 | SC | XEN MID |

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

**Lab Sample ID: 880-16078-20**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 28204 | 06/23/22 08:59 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28203 | 06/23/22 11:56 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28030 | 06/21/22 09:55 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 20:55 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 28058 | 06/21/22 13:39 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28228 | 06/26/22 02:29 | SC | XEN MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Lab Sample ID: 880-16078-21**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28204 | 06/23/22 08:59 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28203 | 06/23/22 12:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28045 | 06/21/22 11:35 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 22:39 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 28057 | 06/21/22 13:32 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28168 | 06/23/22 11:06 | CH | XEN MID |

## Client Sample ID: H-5 (0-0.5')

**Lab Sample ID: 880-16078-22**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28204 | 06/23/22 08:59 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28203 | 06/23/22 12:37 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28045 | 06/21/22 11:35 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/21/22 23:40 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 28057 | 06/21/22 13:32 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28168 | 06/23/22 11:16 | CH | XEN MID |

## Client Sample ID: H-6 (0-0.5')

**Lab Sample ID: 880-16078-23**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 28204 | 06/23/22 08:59 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28203 | 06/23/22 12:57 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28045 | 06/21/22 11:35 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/22/22 00:01 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 28057 | 06/21/22 13:32 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28168 | 06/23/22 11:43 | CH | XEN MID |

## Client Sample ID: H-7 (0-0.5')

**Lab Sample ID: 880-16078-24**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28204 | 06/23/22 08:59 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28203 | 06/23/22 13:18 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Client Sample ID: H-7 (0-0.5')

**Lab Sample ID: 880-16078-24**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 28045 | 06/21/22 11:35 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/22/22 00:22 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 28057 | 06/21/22 13:32 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28168 | 06/23/22 11:52 | CH | XEN MID |

## Client Sample ID: H-8 (0-0.5')

**Lab Sample ID: 880-16078-25**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 28204 | 06/23/22 08:59 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28203 | 06/23/22 13:38 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 28045 | 06/21/22 11:35 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/22/22 00:43 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 28057 | 06/21/22 13:32 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28168 | 06/23/22 12:20 | CH | XEN MID |

## Client Sample ID: H-9 (0-0.5')

**Lab Sample ID: 880-16078-26**
**Matrix: Solid**
**Date Collected: 06/16/22 00:00**
**Date Received: 06/20/22 14:33**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 28204 | 06/23/22 08:59 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 28203 | 06/23/22 13:59 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 28225 | 06/23/22 11:15 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 28125 | 06/22/22 11:20 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 28045 | 06/21/22 11:35 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 27998 | 06/22/22 01:03 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 28057 | 06/21/22 13:32 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 28168 | 06/23/22 12:29 | CH | XEN MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

## Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

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

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

# Method Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

# Sample Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-16078-1
SDG: Lea Co. NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-16078-1 | S-1 (0-1') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-2 | S-1 (1.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-3 | S-1 (2') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-4 | S-1 (3') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-5 | S-1 (4') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-6 | S-1 (5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-7 | S-2 (0-1') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-8 | S-2 (1.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-9 | S-2 (2') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-10 | S-2 (3') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-11 | S-2 (4') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-12 | S-2 (5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-13 | S-3 (0-1') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-14 | S-4 (0-1') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-15 | S-5 (0-1') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-16 | S-6 (0-1') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-17 | S-7 (0-1') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-18 | H-1 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-19 | H-2 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-20 | H-3 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-21 | H-4 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-22 | H-5 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-23 | H-6 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-24 | H-7 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-25 | H-8 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |
| 880-16078-26 | H-9 (0-0.5') | Solid | 06/16/22 00:00 | 06/20/22 14:33 |

Work Order No: 160078

Page 1 of 3

| | | | |
|---|---|---|---|
| Project Manager | Conner Moehring | Bill to. (if different) | Joseph Vargo |
| Company Name. | Carmona Resources | Company Name | NGL Water Solutions Permian |
| Address | 310 W Wall St. Ste 415 | Address. | 865 North Albion St. Ste 400 |
| City, State ZIP | Midland, TX 79701 | City, State ZIP | Denver, CO 80220 |
| Phone | 432 813 6823 | Email: | joseph.vargo@nglep.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

| | | | |
|---|---|---|---|
| Project Name | Vaca Draw ROW Release | Turn Around | |
| Project Number | 1072 | ☒ Routine ☐ Rush | |
| Project Location | Lea Co, NM | Due Date | Standard |
| Sampler's Name. | CCM | TAT starts the day received by the lab if received by 4:30pm | |
| PO #. | | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank. | Yes No | Wet Ice: | Yes No |
| Received Intact: | Yes No | Thermometer ID | IR2 |
| Cooler Custody Seals | Yes No N/A | Correction Factor | -2 |
| Sample Custody Seals. | Yes No N/A | Temperature Reading | 3.2 |
| Total Containers. | | Corrected Temperature | 3.0 |

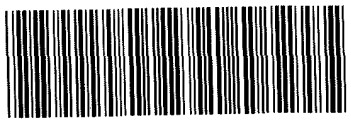
**ANALYSIS REQUEST**

| Sample Identification | Date | Time | Soil | Water | Grab/ Comp | # of Cont | Pres. Code | BTEX 8021B | TPH 8015M ( GRO + DRO + MRO) | Chloride 300.0 | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 (0-1') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-1 (1 5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-1 (2') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-1 (3') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-1 (4') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-1 (5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-2 (0-1') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-2 (1 5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-2 (2') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| S-2 (3') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |

**Preservative Codes**

| | |
|---|---|
| None NO | DI Water $H_2O$ |
| Cool: Cool | MeOH Me |
| HCL HC | $HNO_3$ HN |
| $H_2S0_4$. $H_2$ | NaOH Na |
| $H_3PO_4$ HP | |
| $NaHSO_4$ NABIS | |
| $Na_2S_2O_3$ $NaSO_3$ | |
| Zn Acetate+NaOH Zn | |
| NaOH+Ascorbic Acid: SAPC | |

**Sample Comments**



880-16078 Chain of Custody

**Additoinal Comments:**

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| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 6/20/22 14:33 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 05012020 Rev. 2020.1

Work Order No: 16078

Page 2 of 3

| | | | |
|---|---|---|---|
| Project Manager | Conner Moehring | Bill to: (if different) | Joseph Vargo |
| Company Name: | Carmona Resources | Company Name | NGL Water Solutions Permian |
| Address | 310 W Wall St. Ste 415 | Address. | 865 North Albion St. Ste. 400 |
| City, State ZIP | Midland, TX 79701 | City, State ZIP | Denver, CO 80220 |
| Phone. | 432 813.6823 | Email | joseph.vargo@nglep.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name. | Vaca Draw ROW Release | Turn Around | |
| Project Number | 1072 | ☒ Routine ☐ Rush | |
| Project Location | Lea Co, NM | Due Date | Standard |
| Sampler's Name. | CCM | TAT starts the day received by the lab if received by 4 30pm | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank. | Yes No | Wet Ice: | Yes No | |
| Received Intact: | Yes No | Thermometer ID | | |
| Cooler Custody Seals. | Yes No N/A | Correction Factor | | |
| Sample Custody Seals. | Yes No N/A | Temperature Reading | | |
| Total Containers. | | Corrected Temperature | | |

**Preservative Codes**

None NO; DI Water $H_2O$; Cool: Cool; MeOH Me; HCL. HC; $HNO_3$ HN; $H_2S0_4$. $H_2$; NaOH Na; $H_3PO_4$ HP; $NaHSO_4$. NABIS; $Na_2S_2O_3$. $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid: SAPC

| Sample Identification | Date | Time | Soil | Water | Grab/ Comp | # of Cont | Pres. Code | BTEX 8021B | TPH 8015M ( GRO + DRO + MRO) | Chloride 300.0 | HOLD | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-2 (4') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| S-2 (5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| S-3 (0-1') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| S-4 (0-1') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| S-5 (0-1') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| S-6 (0-1') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| S-7 (0-1') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| H-1 (0-0.5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| H-2 (0-0.5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |
| H-3 (0-0.5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | | |

**Additoinal Comments:**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 6/20/22 14:33 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 05012020 Rev. 2020.1

Work Order No: 16078

Page 3 of 3

| | | | |
|---|---|---|---|
| Project Manager | Conner Moehring | Bill to: (if different) | Joseph Vargo |
| Company Name: | Carmona Resources | Company Name: | NGL Water Solutions Permian |
| Address | 310 W Wall St. Ste 415 | Address. | 865 North Albion St. Ste. 400 |
| City, State ZIP | Midland, TX 79701 | City, State ZIP | Denver, CO 80220 |
| Phone. | 432 813 6823 | Email: | joseph.vargo@nglep.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ uperfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name | Vaca Draw ROW Release | Turn Around | |
| Project Number | 1072 | ☒ Routine ☐ Rush | |
| Project Location | Lea Co, NM | Due Date | Standard |
| Sampler's Name | CCM | TAT starts the day received by the lab if received by 4.30pm | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank | Yes No | Wet Ice: | Yes No | |
| Received Intact: | Yes No | Thermometer ID | | |
| Cooler Custody Seals | Yes No N/A | Correction Factor | | |
| Sample Custody Seals | Yes No N/A | Temperature Reading | | |
| Total Containers | | Corrected Temperature | | |

**ANALYSIS REQUEST**

| Sample Identification | Date | Time | Soil | Water | Grab/ Comp | # of Cont | Pres. Code | BTEX 8021B | TPH 8015M ( GRO + DRO + MRO) | Chloride 300.0 | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H-4 (0-0 5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| H-5 (0-0.5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| H-6 (0-0 5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| H-7 (0-0 5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| H-8 (0-0 5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| H-9 (0-0 5') | 6/16/2022 | | X | | Grab/ | 1 | | X | X | X | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**Preservative Codes**

None NO — DI Water $H_2O$

Cool Cool — MeOH Me

HCL. HC — $HNO_3$ HN

$H_2S0_4$. $H_2$ — NaOH Na

$H_3PO_4$ HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid: SAPC

**Sample Comments**

Loc: 880
16078

**Additoinal Comments:**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 10/20/22 14:33 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 05012020 Rev. 2020.1

# Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-16078-1
SDG Number: Lea Co. NM

**Login Number: 16078**
**List Number: 1**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

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

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 11/28/2022 4:19:55 PM

## JOB DESCRIPTION

Vaca Draw ROW Release
SDG NUMBER Lea Co, NM

## JOB NUMBER

880-21911-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.





my EOL

# Eurofins Midland

## Job Notes

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

Generated
11/28/2022 4:19:55 PM

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

# Table of Contents

# Definitions/Glossary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| *- | LCS and/or LCSD is outside acceptance limits, low biased. |
| *1 | LCS/LCSD RPD exceeds control limits. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

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

# Case Narrative

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Job ID: 880-21911-1

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative**
**880-21911-1**

**Receipt**
The samples were received on 11/22/2022 4:42 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 4.6°C

**Receipt Exceptions**
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (6') (880-21911-1), CS-2 (6') (880-21911-2), CS-3 (6') (880-21911-3), CS-4 (6') (880-21911-4), CS-5 (6') (880-21911-5), SW-1 (6') (880-21911-6), SW-2 (6') (880-21911-7), SW-3 (6') (880-21911-8), SW-4 (6') (880-21911-9), SW-5 (6') (880-21911-10), SW-6 (6') (880-21911-11), SW-7 (6') (880-21911-12) and SW-8 (6') (880-21911-13).

**GC VOA**
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-40278 and analytical batch 880-40267 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-40278/1-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: Surrogate recovery for the following samples were outside control limits: CS-2 (6') (880-21911-2), CS-3 (6') (880-21911-3) and CS-4 (6') (880-21911-4). 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-3 (6') (880-21911-8) and SW-5 (6') (880-21911-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40353 and analytical batch 880-40348 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.

**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: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: CS-1 (6')

**Lab Sample ID: 880-21911-1**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 13:04 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:04 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:04 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:04 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:04 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 13:04* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 13:04* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 21:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 21:00 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 21:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 21:00* | *1* |
| *o-Terphenyl* | *129* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 21:00* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **25.4** | | 4.97 | | mg/Kg | | | 11/23/22 12:10 | 1 |

## Client Sample ID: CS-2 (6')

**Lab Sample ID: 880-21911-2**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 13:24 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:24 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:24 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:24 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:24 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 13:24* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 13:24* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: CS-2 (6')

**Lab Sample ID: 880-21911-2**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:05 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *114* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 22:05* | *1* |
| *o-Terphenyl* | *133* | *S1+* | *70 - 130* | *11/24/22 11:13* | *11/24/22 22:05* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **103** | | 4.96 | | mg/Kg | | | 11/23/22 12:50 | 1 |

## Client Sample ID: CS-3 (6')

**Lab Sample ID: 880-21911-3**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 13:45 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:45 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:45 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:45 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:45 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 13:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 13:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 13:45* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00396 | U | 0.00396 | | mg/Kg | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:27 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: CS-3 (6')

**Lab Sample ID: 880-21911-3**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *114* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 22:27* | *1* |
| *o-Terphenyl* | *134* | *S1+* | *70 - 130* | *11/24/22 11:13* | *11/24/22 22:27* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **56.3** | | 5.00 | | mg/Kg | | | 11/23/22 12:55 | 1 |

## Client Sample ID: CS-4 (6')

**Lab Sample ID: 880-21911-4**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 14:05 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:05 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:05 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:05 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:05 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 14:05* | *1* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 14:05* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:49 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:49 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 22:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *118* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 22:49* | *1* |
| *o-Terphenyl* | *135* | *S1+* | *70 - 130* | *11/24/22 11:13* | *11/24/22 22:49* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **70.7** | | 5.03 | | mg/Kg | | | 11/23/22 13:01 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: 880-21911-5**
**Date Collected: 11/18/22 00:00**
**Matrix: Solid**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 14:26 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:26 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:26 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:26 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:26 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 14:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 14:26* | *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 | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:10 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:10 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *113* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 23:10* | *1* |
| *o-Terphenyl* | *128* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 23:10* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **50.4** | | 5.05 | | mg/Kg | | | 11/23/22 13:07 | 1 |

## Client Sample ID: SW-1 (6')

**Lab Sample ID: 880-21911-6**
**Date Collected: 11/18/22 00:00**
**Matrix: Solid**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 14:46 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:46 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:46 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:46 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:46 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 14:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 14:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 14:46* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: SW-1 (6')

**Lab Sample ID: 880-21911-6**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:30 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 23:30* | *1* |
| *o-Terphenyl* | *130* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 23:30* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **14.0** | | 5.02 | | mg/Kg | | | 11/23/22 13:24 | 1 |

## Client Sample ID: SW-2 (6')

**Lab Sample ID: 880-21911-7**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:07 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:07 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 15:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *89* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 15:07* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:53 | 1 |

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# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: SW-2 (6')

**Lab Sample ID: 880-21911-7**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 23:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *100* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 23:53* | *1* |
| *o-Terphenyl* | *115* | | *70 - 130* | *11/24/22 11:13* | *11/24/22 23:53* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **20.2** | | 4.98 | | mg/Kg | | | 11/23/22 13:29 | 1 |

## Client Sample ID: SW-3 (6')

**Lab Sample ID: 880-21911-8**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:27 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:27 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:27 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:27 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:27 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 15:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 15:27* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:14 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:14 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 00:14* | *1* |
| *o-Terphenyl* | *131* | *S1+* | *70 - 130* | *11/24/22 11:13* | *11/25/22 00:14* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **47.7** | | 4.97 | | mg/Kg | | | 11/23/22 13:35 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: SW-4 (6')

**Lab Sample ID: 880-21911-9**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 15:48 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:48 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:48 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:48 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:48 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 15:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 15:48* | *1* |
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 15:48* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | | mg/Kg | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:35 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:35 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *110* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 00:35* | *1* |
| *o-Terphenyl* | *125* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 00:35* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.6** | | 5.01 | | mg/Kg | | | 11/23/22 13:41 | 1 |

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

**Lab Sample ID: 880-21911-10**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/22/22 17:45 | 11/23/22 16:08 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 16:08 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 16:08 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 16:08 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 16:08 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 16:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 16:08* | *1* |
| *1,4-Difluorobenzene (Surr)* | *90* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 16:08* | *1* |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: 880-21911-10**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | | 11/28/22 16:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:57 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 00:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *117* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 00:57* | *1* |
| *o-Terphenyl* | *136* | *S1+* | *70 - 130* | *11/24/22 11:13* | *11/25/22 00:57* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **15.1** | | 4.98 | | mg/Kg | | | 11/23/22 13:46 | 1 |

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

**Lab Sample ID: 880-21911-11**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/23/22 10:41 | 11/23/22 13:03 | 1 |
| Toluene | <0.00202 | U *- *1 | 0.00202 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:03 | 1 |
| Ethylbenzene | <0.00202 | U *- *1 | 0.00202 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:03 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U *- *1 | 0.00404 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:03 | 1 |
| o-Xylene | <0.00202 | U *- *1 | 0.00202 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:03 | 1 |
| Xylenes, Total | <0.00404 | U *- *1 | 0.00404 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 130* | *11/23/22 10:41* | *11/23/22 13:03* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *11/23/22 10:41* | *11/23/22 13:03* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 11/28/22 14:50 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 01:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 01:40 | 1 |

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# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: 880-21911-11**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 01:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *113* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 01:40* | *1* |
| *o-Terphenyl* | *129* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 01:40* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **15.6** | | 5.03 | | mg/Kg | | | 11/23/22 17:29 | 1 |

## Client Sample ID: SW-7 (6')

**Lab Sample ID: 880-21911-12**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

### 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 | | 11/23/22 10:41 | 11/23/22 13:24 | 1 |
| Toluene | <0.00202 | U *- *1 | 0.00202 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:24 | 1 |
| Ethylbenzene | <0.00202 | U *- *1 | 0.00202 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:24 | 1 |
| **m-Xylene & p-Xylene** | **0.00428** | ***- *1** | 0.00403 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:24 | 1 |
| o-Xylene | <0.00202 | U *- *1 | 0.00202 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:24 | 1 |
| **Xylenes, Total** | **0.00428** | ***- *1** | 0.00403 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 13:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *122* | | *70 - 130* | *11/23/22 10:41* | *11/23/22 13:24* | *1* |
| *1,4-Difluorobenzene (Surr)* | *114* | | *70 - 130* | *11/23/22 10:41* | *11/23/22 13:24* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total BTEX** | **0.00428** | | 0.00403 | | mg/Kg | | | 11/28/22 14:50 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 02:01 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 02:01 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 02:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *101* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 02:01* | *1* |
| *o-Terphenyl* | *112* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 02:01* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **35.0** | | 5.02 | | mg/Kg | | | 11/23/22 14:09 | 1 |

# Client Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: SW-8 (6')

**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-13

**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 | | 11/23/22 10:46 | 11/23/22 13:41 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:41 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:41 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:41 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:41 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *80* | | *70 - 130* | *11/23/22 10:46* | *11/23/22 13:41* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *11/23/22 10:46* | *11/23/22 13:41* | *1* |

### Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 11/28/22 15:35 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 11/28/22 08:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 02:23 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 02:23 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/25/22 02:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *109* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 02:23* | *1* |
| *o-Terphenyl* | *126* | | *70 - 130* | *11/24/22 11:13* | *11/25/22 02:23* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **68.2** | | 4.99 | | mg/Kg | | | 11/23/22 14:14 | 1 |

# Surrogate Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-21911-1 | CS-1 (6') | 91 | 105 |
| 880-21911-1 MS | CS-1 (6') | 101 | 119 |
| 880-21911-1 MSD | CS-1 (6') | 95 | 112 |
| 880-21911-2 | CS-2 (6') | 94 | 106 |
| 880-21911-3 | CS-3 (6') | 98 | 102 |
| 880-21911-4 | CS-4 (6') | 108 | 92 |
| 880-21911-5 | CS-5 (6') | 103 | 93 |
| 880-21911-6 | SW-1 (6') | 102 | 90 |
| 880-21911-7 | SW-2 (6') | 96 | 89 |
| 880-21911-8 | SW-3 (6') | 105 | 94 |
| 880-21911-9 | SW-4 (6') | 103 | 93 |
| 880-21911-10 | SW-5 (6') | 95 | 90 |
| 880-21911-11 | SW-6 (6') | 94 | 91 |
| 880-21911-11 MS | SW-6 (6') | 91 | 101 |
| 880-21911-11 MSD | SW-6 (6') | 86 | 87 |
| 880-21911-12 | SW-7 (6') | 122 | 114 |
| 880-21911-13 | SW-8 (6') | 80 | 110 |
| 880-21911-13 MS | SW-8 (6') | 94 | 107 |
| 880-21911-13 MSD | SW-8 (6') | 93 | 95 |
| LCS 880-40254/1-A | Lab Control Sample | 108 | 114 |
| LCS 880-40278/1-A | Lab Control Sample | 59 S1- | 97 |
| LCS 880-40279/1-A | Lab Control Sample | 86 | 112 |
| LCSD 880-40254/2-A | Lab Control Sample Dup | 100 | 111 |
| LCSD 880-40278/2-A | Lab Control Sample Dup | 93 | 93 |
| LCSD 880-40279/2-A | Lab Control Sample Dup | 85 | 101 |
| MB 880-40254/5-A | Method Blank | 85 | 101 |
| MB 880-40278/5-A | Method Blank | 99 | 97 |
| MB 880-40279/5-A | Method Blank | 77 | 102 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-21911-1 | CS-1 (6') | 112 | 129 |
| 880-21911-1 MS | CS-1 (6') | 112 | 115 |
| 880-21911-1 MSD | CS-1 (6') | 118 | 121 |
| 880-21911-2 | CS-2 (6') | 114 | 133 S1+ |
| 880-21911-3 | CS-3 (6') | 114 | 134 S1+ |
| 880-21911-4 | CS-4 (6') | 118 | 135 S1+ |
| 880-21911-5 | CS-5 (6') | 113 | 128 |
| 880-21911-6 | SW-1 (6') | 112 | 130 |
| 880-21911-7 | SW-2 (6') | 100 | 115 |
| 880-21911-8 | SW-3 (6') | 112 | 131 S1+ |
| 880-21911-9 | SW-4 (6') | 110 | 125 |

# Surrogate Summary

Client: Carmona Resources Job ID: 880-21911-1
Project/Site: Vaca Draw ROW Release SDG: Lea Co, NM

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

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | | | |
| 880-21911-10 | SW-5 (6') | 117 | 136 S1+ | | | | | | | | | | |
| 880-21911-11 | SW-6 (6') | 113 | 129 | | | | | | | | | | |
| 880-21911-12 | SW-7 (6') | 101 | 112 | | | | | | | | | | |
| 880-21911-13 | SW-8 (6') | 109 | 126 | | | | | | | | | | |
| LCS 880-40353/2-A | Lab Control Sample | 94 | 104 | | | | | | | | | | |
| LCSD 880-40353/3-A | Lab Control Sample Dup | 85 | 92 | | | | | | | | | | |
| MB 880-40353/1-A | Method Blank | 146 S1+ | 168 S1+ | | | | | | | | | | |

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: MB 880-40254/5-A**
**Matrix: Solid**
**Analysis Batch: 40265**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 40254**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 12:42 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 12:42 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 12:42 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 12:42 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 12:42 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/22/22 17:45 | 11/23/22 12:42 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *85* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 12:42* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *11/22/22 17:45* | *11/23/22 12:42* | *1* |

**Lab Sample ID: LCS 880-40254/1-A**
**Matrix: Solid**
**Analysis Batch: 40265**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 40254**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1107 | | mg/Kg | | 111 | 70 - 130 |
| Toluene | 0.100 | 0.09513 | | mg/Kg | | 95 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1057 | | mg/Kg | | 106 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2135 | | mg/Kg | | 107 | 70 - 130 |
| o-Xylene | 0.100 | 0.1038 | | mg/Kg | | 104 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *114* | | *70 - 130* |

**Lab Sample ID: LCSD 880-40254/2-A**
**Matrix: Solid**
**Analysis Batch: 40265**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 40254**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1083 | | mg/Kg | | 108 | 70 - 130 | 2 | 35 |
| Toluene | 0.100 | 0.09803 | | mg/Kg | | 98 | 70 - 130 | 3 | 35 |
| Ethylbenzene | 0.100 | 0.09819 | | mg/Kg | | 98 | 70 - 130 | 7 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2067 | | mg/Kg | | 103 | 70 - 130 | 3 | 35 |
| o-Xylene | 0.100 | 0.1011 | | mg/Kg | | 101 | 70 - 130 | 3 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *111* | | *70 - 130* |

**Lab Sample ID: 880-21911-1 MS**
**Matrix: Solid**
**Analysis Batch: 40265**

**Client Sample ID: CS-1 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40254**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.101 | 0.1164 | | mg/Kg | | 115 | 70 - 130 |
| Toluene | <0.00202 | U | 0.101 | 0.09673 | | mg/Kg | | 96 | 70 - 130 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: 880-21911-1 MS**
**Matrix: Solid**
**Analysis Batch: 40265**

**Client Sample ID: CS-1 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40254**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00202 | U | 0.101 | 0.09883 | | mg/Kg | | 98 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.202 | 0.1966 | | mg/Kg | | 97 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.101 | 0.09491 | | mg/Kg | | 94 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *119* | | *70 - 130* |

**Lab Sample ID: 880-21911-1 MSD**
**Matrix: Solid**
**Analysis Batch: 40265**

**Client Sample ID: CS-1 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40254**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0994 | 0.1045 | | mg/Kg | | 105 | 70 - 130 | 11 | 35 |
| Toluene | <0.00202 | U | 0.0994 | 0.08845 | | mg/Kg | | 89 | 70 - 130 | 9 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0994 | 0.08907 | | mg/Kg | | 90 | 70 - 130 | 10 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.199 | 0.1744 | | mg/Kg | | 88 | 70 - 130 | 12 | 35 |
| o-Xylene | <0.00202 | U | 0.0994 | 0.08420 | | mg/Kg | | 84 | 70 - 130 | 12 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *112* | | *70 - 130* |

**Lab Sample ID: MB 880-40278/5-A**
**Matrix: Solid**
**Analysis Batch: 40267**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 40278**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 12:41 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 12:41 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 12:41 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 12:41 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 12:41 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/23/22 10:41 | 11/23/22 12:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | *11/23/22 10:41* | *11/23/22 12:41* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *11/23/22 10:41* | *11/23/22 12:41* | *1* |

**Lab Sample ID: LCS 880-40278/1-A**
**Matrix: Solid**
**Analysis Batch: 40267**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 40278**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.08287 | | mg/Kg | | 83 | 70 - 130 |
| Toluene | 0.100 | 0.05351 | *- | mg/Kg | | 54 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.04841 | *- | mg/Kg | | 48 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.09312 | *- | mg/Kg | | 47 | 70 - 130 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: LCS 880-40278/1-A**
**Matrix: Solid**
**Analysis Batch: 40267**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 40278**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | | | 0.100 | 0.05018 | *- | mg/Kg | | 50 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *59* | *S1-* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: LCSD 880-40278/2-A**
**Matrix: Solid**
**Analysis Batch: 40267**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 40278**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09654 | | mg/Kg | | 97 | 70 - 130 | 15 | 35 |
| Toluene | | | 0.100 | 0.1027 | *1 | mg/Kg | | 103 | 70 - 130 | 63 | 35 |
| Ethylbenzene | | | 0.100 | 0.09627 | *1 | mg/Kg | | 96 | 70 - 130 | 66 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1889 | *1 | mg/Kg | | 94 | 70 - 130 | 68 | 35 |
| o-Xylene | | | 0.100 | 0.1082 | *1 | mg/Kg | | 108 | 70 - 130 | 73 | 35 |

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

**Lab Sample ID: 880-21911-11 MS**
**Matrix: Solid**
**Analysis Batch: 40267**

**Client Sample ID: SW-6 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40278**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.101 | 0.09843 | | mg/Kg | | 98 | 70 - 130 | | |
| Toluene | <0.00202 | U *- *1 | 0.101 | 0.09955 | | mg/Kg | | 99 | 70 - 130 | | |
| Ethylbenzene | <0.00202 | U *- *1 | 0.101 | 0.09603 | | mg/Kg | | 95 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00404 | U *- *1 | 0.202 | 0.1903 | | mg/Kg | | 94 | 70 - 130 | | |
| o-Xylene | <0.00202 | U *- *1 | 0.101 | 0.1071 | | mg/Kg | | 106 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: 880-21911-11 MSD**
**Matrix: Solid**
**Analysis Batch: 40267**

**Client Sample ID: SW-6 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40278**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0996 | 0.09005 | | mg/Kg | | 90 | 70 - 130 | 9 | 35 |
| Toluene | <0.00202 | U *- *1 | 0.0996 | 0.09277 | | mg/Kg | | 93 | 70 - 130 | 7 | 35 |
| Ethylbenzene | <0.00202 | U *- *1 | 0.0996 | 0.09093 | | mg/Kg | | 91 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | <0.00404 | U *- *1 | 0.199 | 0.1779 | | mg/Kg | | 89 | 70 - 130 | 7 | 35 |
| o-Xylene | <0.00202 | U *- *1 | 0.0996 | 0.1000 | | mg/Kg | | 100 | 70 - 130 | 7 | 35 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: 880-21911-11 MSD**
**Matrix: Solid**
**Analysis Batch: 40267**

**Client Sample ID: SW-6 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40278**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 |

**Lab Sample ID: MB 880-40279/5-A**
**Matrix: Solid**
**Analysis Batch: 40266**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 40279**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/23/22 10:46 | 11/23/22 13:13 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 11/23/22 10:46 | 11/23/22 13:13 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 11/23/22 10:46 | 11/23/22 13:13 | 1 |

**Lab Sample ID: LCS 880-40279/1-A**
**Matrix: Solid**
**Analysis Batch: 40266**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 40279**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.07796 | | mg/Kg | | 78 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09316 | | mg/Kg | | 93 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1035 | | mg/Kg | | 103 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2014 | | mg/Kg | | 101 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.07886 | | mg/Kg | | 79 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 |

**Lab Sample ID: LCSD 880-40279/2-A**
**Matrix: Solid**
**Analysis Batch: 40266**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 40279**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.08511 | | mg/Kg | | 85 | 70 - 130 | 9 | 35 |
| Toluene | | | 0.100 | 0.1020 | | mg/Kg | | 102 | 70 - 130 | 9 | 35 |
| Ethylbenzene | | | 0.100 | 0.09992 | | mg/Kg | | 100 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1800 | | mg/Kg | | 90 | 70 - 130 | 11 | 35 |
| o-Xylene | | | 0.100 | 0.08784 | | mg/Kg | | 88 | 70 - 130 | 11 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 |

Eurofins Midland

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: LCSD 880-40279/2-A**
**Matrix: Solid**
**Analysis Batch: 40266**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 40279**

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

**Lab Sample ID: 880-21911-13 MS**
**Matrix: Solid**
**Analysis Batch: 40266**

**Client Sample ID: SW-8 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40279**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.101 | 0.08895 | | mg/Kg | | 88 | 70 - 130 |
| Toluene | <0.00202 | U | 0.101 | 0.1013 | | mg/Kg | | 100 | 70 - 130 |
| Ethylbenzene | <0.00202 | U | 0.101 | 0.09801 | | mg/Kg | | 97 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.202 | 0.1772 | | mg/Kg | | 88 | 70 - 130 |
| o-Xylene | <0.00202 | U | 0.101 | 0.08434 | | mg/Kg | | 83 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 |

**Lab Sample ID: 880-21911-13 MSD**
**Matrix: Solid**
**Analysis Batch: 40266**

**Client Sample ID: SW-8 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40279**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.0996 | 0.09297 | | mg/Kg | | 93 | 70 - 130 | 4 | 35 |
| Toluene | <0.00202 | U | 0.0996 | 0.1113 | | mg/Kg | | 112 | 70 - 130 | 9 | 35 |
| Ethylbenzene | <0.00202 | U | 0.0996 | 0.1068 | | mg/Kg | | 107 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.199 | 0.1930 | | mg/Kg | | 97 | 70 - 130 | 9 | 35 |
| o-Xylene | <0.00202 | U | 0.0996 | 0.09242 | | mg/Kg | | 92 | 70 - 130 | 9 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 |

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

**Lab Sample ID: MB 880-40353/1-A**
**Matrix: Solid**
**Analysis Batch: 40348**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 40353**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 19:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 19:56 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 11/24/22 11:13 | 11/24/22 19:56 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 146 | S1+ | 70 - 130 | 11/24/22 11:13 | 11/24/22 19:56 | 1 |
| o-Terphenyl | 168 | S1+ | 70 - 130 | 11/24/22 11:13 | 11/24/22 19:56 | 1 |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: LCS 880-40353/2-A**
**Matrix: Solid**
**Analysis Batch: 40348**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 40353**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 915.4 | | mg/Kg | | 92 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 956.3 | | mg/Kg | | 96 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* |
| *o-Terphenyl* | *104* | | *70 - 130* |

**Lab Sample ID: LCSD 880-40353/3-A**
**Matrix: Solid**
**Analysis Batch: 40348**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 40353**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 987.4 | | mg/Kg | | 99 | 70 - 130 | 8 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 994.1 | | mg/Kg | | 99 | 70 - 130 | 4 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *85* | | *70 - 130* |
| *o-Terphenyl* | *92* | | *70 - 130* |

**Lab Sample ID: 880-21911-1 MS**
**Matrix: Solid**
**Analysis Batch: 40348**

**Client Sample ID: CS-1 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40353**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 999 | 1034 | | mg/Kg | | 100 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 999 | 841.0 | | mg/Kg | | 84 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* |
| *o-Terphenyl* | *115* | | *70 - 130* |

**Lab Sample ID: 880-21911-1 MSD**
**Matrix: Solid**
**Analysis Batch: 40348**

**Client Sample ID: CS-1 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40353**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 1072 | | mg/Kg | | 104 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 878.1 | | mg/Kg | | 88 | 70 - 130 | 4 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *118* | | *70 - 130* |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: 880-21911-1 MSD**
**Matrix: Solid**
**Analysis Batch: 40348**

**Client Sample ID: CS-1 (6')**
**Prep Type: Total/NA**
**Prep Batch: 40353**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 121 | | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-40269/1-A**
**Matrix: Solid**
**Analysis Batch: 40292**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 11/23/22 11:53 | 1 |

**Lab Sample ID: LCS 880-40269/2-A**
**Matrix: Solid**
**Analysis Batch: 40292**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 252.6 | | mg/Kg | | 101 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-40269/3-A**
**Matrix: Solid**
**Analysis Batch: 40292**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 251.8 | | mg/Kg | | 101 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-21911-1 MS**
**Matrix: Solid**
**Analysis Batch: 40292**

**Client Sample ID: CS-1 (6')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.4 | | 249 | 277.2 | | mg/Kg | | 101 | 90 - 110 | | |

**Lab Sample ID: 880-21911-1 MSD**
**Matrix: Solid**
**Analysis Batch: 40292**

**Client Sample ID: CS-1 (6')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.4 | | 249 | 275.2 | | mg/Kg | | 101 | 90 - 110 | 1 | 20 |

**Lab Sample ID: 880-21911-11 MS**
**Matrix: Solid**
**Analysis Batch: 40292**

**Client Sample ID: SW-6 (6')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.03 | U | 252 | 274.3 | | mg/Kg | | 109 | 90 - 110 | | |

# QC Sample Results

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 880-21911-11 MSD**
**Matrix: Solid**
**Analysis Batch: 40292**

**Client Sample ID: SW-6 (6')**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.03 | U | 252 | 272.9 | | mg/Kg | | 109 | 90 - 110 | 1 | 20 |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## GC VOA

### Prep Batch: 40254

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Total/NA | Solid | 5035 | |
| 880-21911-2 | CS-2 (6') | Total/NA | Solid | 5035 | |
| 880-21911-3 | CS-3 (6') | Total/NA | Solid | 5035 | |
| 880-21911-4 | CS-4 (6') | Total/NA | Solid | 5035 | |
| 880-21911-5 | CS-5 (6') | Total/NA | Solid | 5035 | |
| 880-21911-6 | SW-1 (6') | Total/NA | Solid | 5035 | |
| 880-21911-7 | SW-2 (6') | Total/NA | Solid | 5035 | |
| 880-21911-8 | SW-3 (6') | Total/NA | Solid | 5035 | |
| 880-21911-9 | SW-4 (6') | Total/NA | Solid | 5035 | |
| 880-21911-10 | SW-5 (6') | Total/NA | Solid | 5035 | |
| MB 880-40254/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40254/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40254/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-21911-1 MS | CS-1 (6') | Total/NA | Solid | 5035 | |
| 880-21911-1 MSD | CS-1 (6') | Total/NA | Solid | 5035 | |

### Analysis Batch: 40265

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-2 | CS-2 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-3 | CS-3 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-4 | CS-4 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-5 | CS-5 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-6 | SW-1 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-7 | SW-2 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-8 | SW-3 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-9 | SW-4 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-10 | SW-5 (6') | Total/NA | Solid | 8021B | 40254 |
| MB 880-40254/5-A | Method Blank | Total/NA | Solid | 8021B | 40254 |
| LCS 880-40254/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40254 |
| LCSD 880-40254/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40254 |
| 880-21911-1 MS | CS-1 (6') | Total/NA | Solid | 8021B | 40254 |
| 880-21911-1 MSD | CS-1 (6') | Total/NA | Solid | 8021B | 40254 |

### Analysis Batch: 40266

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-13 | SW-8 (6') | Total/NA | Solid | 8021B | 40279 |
| MB 880-40279/5-A | Method Blank | Total/NA | Solid | 8021B | 40279 |
| LCS 880-40279/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40279 |
| LCSD 880-40279/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40279 |
| 880-21911-13 MS | SW-8 (6') | Total/NA | Solid | 8021B | 40279 |
| 880-21911-13 MSD | SW-8 (6') | Total/NA | Solid | 8021B | 40279 |

### Analysis Batch: 40267

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-11 | SW-6 (6') | Total/NA | Solid | 8021B | 40278 |
| 880-21911-12 | SW-7 (6') | Total/NA | Solid | 8021B | 40278 |
| MB 880-40278/5-A | Method Blank | Total/NA | Solid | 8021B | 40278 |
| LCS 880-40278/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40278 |
| LCSD 880-40278/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40278 |
| 880-21911-11 MS | SW-6 (6') | Total/NA | Solid | 8021B | 40278 |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## GC VOA (Continued)

### Analysis Batch: 40267 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-11 MSD | SW-6 (6') | Total/NA | Solid | 8021B | 40278 |

### Prep Batch: 40278

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-11 | SW-6 (6') | Total/NA | Solid | 5035 | |
| 880-21911-12 | SW-7 (6') | Total/NA | Solid | 5035 | |
| MB 880-40278/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40278/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40278/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-21911-11 MS | SW-6 (6') | Total/NA | Solid | 5035 | |
| 880-21911-11 MSD | SW-6 (6') | Total/NA | Solid | 5035 | |

### Prep Batch: 40279

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-13 | SW-8 (6') | Total/NA | Solid | 5035 | |
| MB 880-40279/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40279/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40279/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-21911-13 MS | SW-8 (6') | Total/NA | Solid | 5035 | |
| 880-21911-13 MSD | SW-8 (6') | Total/NA | Solid | 5035 | |

### Analysis Batch: 40472

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-2 | CS-2 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-3 | CS-3 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-4 | CS-4 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-5 | CS-5 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-6 | SW-1 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-7 | SW-2 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-8 | SW-3 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-9 | SW-4 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-10 | SW-5 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-11 | SW-6 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-12 | SW-7 (6') | Total/NA | Solid | Total BTEX | |
| 880-21911-13 | SW-8 (6') | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Analysis Batch: 40348

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-2 | CS-2 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-3 | CS-3 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-4 | CS-4 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-5 | CS-5 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-6 | SW-1 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-7 | SW-2 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-8 | SW-3 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-9 | SW-4 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-10 | SW-5 (6') | Total/NA | Solid | 8015B NM | 40353 |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## GC Semi VOA (Continued)

### Analysis Batch: 40348 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-11 | SW-6 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-12 | SW-7 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-13 | SW-8 (6') | Total/NA | Solid | 8015B NM | 40353 |
| MB 880-40353/1-A | Method Blank | Total/NA | Solid | 8015B NM | 40353 |
| LCS 880-40353/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 40353 |
| LCSD 880-40353/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-1 MS | CS-1 (6') | Total/NA | Solid | 8015B NM | 40353 |
| 880-21911-1 MSD | CS-1 (6') | Total/NA | Solid | 8015B NM | 40353 |

### Prep Batch: 40353

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-2 | CS-2 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-3 | CS-3 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-4 | CS-4 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-5 | CS-5 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-6 | SW-1 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-7 | SW-2 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-8 | SW-3 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-9 | SW-4 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-10 | SW-5 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-11 | SW-6 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-12 | SW-7 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-13 | SW-8 (6') | Total/NA | Solid | 8015NM Prep | |
| MB 880-40353/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-40353/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-40353/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-21911-1 MS | CS-1 (6') | Total/NA | Solid | 8015NM Prep | |
| 880-21911-1 MSD | CS-1 (6') | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 40381

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-2 | CS-2 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-3 | CS-3 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-4 | CS-4 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-5 | CS-5 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-6 | SW-1 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-7 | SW-2 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-8 | SW-3 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-9 | SW-4 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-10 | SW-5 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-11 | SW-6 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-12 | SW-7 (6') | Total/NA | Solid | 8015 NM | |
| 880-21911-13 | SW-8 (6') | Total/NA | Solid | 8015 NM | |

## HPLC/IC

### Leach Batch: 40269

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Soluble | Solid | DI Leach | |

# QC Association Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## HPLC/IC (Continued)

### Leach Batch: 40269 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-2 | CS-2 (6') | Soluble | Solid | DI Leach | |
| 880-21911-3 | CS-3 (6') | Soluble | Solid | DI Leach | |
| 880-21911-4 | CS-4 (6') | Soluble | Solid | DI Leach | |
| 880-21911-5 | CS-5 (6') | Soluble | Solid | DI Leach | |
| 880-21911-6 | SW-1 (6') | Soluble | Solid | DI Leach | |
| 880-21911-7 | SW-2 (6') | Soluble | Solid | DI Leach | |
| 880-21911-8 | SW-3 (6') | Soluble | Solid | DI Leach | |
| 880-21911-9 | SW-4 (6') | Soluble | Solid | DI Leach | |
| 880-21911-10 | SW-5 (6') | Soluble | Solid | DI Leach | |
| 880-21911-11 | SW-6 (6') | Soluble | Solid | DI Leach | |
| 880-21911-12 | SW-7 (6') | Soluble | Solid | DI Leach | |
| 880-21911-13 | SW-8 (6') | Soluble | Solid | DI Leach | |
| MB 880-40269/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-40269/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-40269/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-21911-1 MS | CS-1 (6') | Soluble | Solid | DI Leach | |
| 880-21911-1 MSD | CS-1 (6') | Soluble | Solid | DI Leach | |
| 880-21911-11 MS | SW-6 (6') | Soluble | Solid | DI Leach | |
| 880-21911-11 MSD | SW-6 (6') | Soluble | Solid | DI Leach | |

### Analysis Batch: 40292

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-2 | CS-2 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-3 | CS-3 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-4 | CS-4 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-5 | CS-5 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-6 | SW-1 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-7 | SW-2 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-8 | SW-3 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-9 | SW-4 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-10 | SW-5 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-11 | SW-6 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-12 | SW-7 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-13 | SW-8 (6') | Soluble | Solid | 300.0 | 40269 |
| MB 880-40269/1-A | Method Blank | Soluble | Solid | 300.0 | 40269 |
| LCS 880-40269/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 40269 |
| LCSD 880-40269/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 40269 |
| 880-21911-1 MS | CS-1 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-1 MSD | CS-1 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-11 MS | SW-6 (6') | Soluble | Solid | 300.0 | 40269 |
| 880-21911-11 MSD | SW-6 (6') | Soluble | Solid | 300.0 | 40269 |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: CS-1 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-1
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 13:04 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/24/22 21:00 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 12:10 | SMC | EET MID |

## Client Sample ID: CS-2 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 13:24 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/24/22 22:05 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 12:50 | SMC | EET MID |

## Client Sample ID: CS-3 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-3
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 13:45 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/24/22 22:27 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 12:55 | SMC | EET MID |

## Client Sample ID: CS-4 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-4
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 14:05 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |

Eurofins Midland

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: CS-4 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-4
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/24/22 22:49 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 13:01 | SMC | EET MID |

## Client Sample ID: CS-5 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-5
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 14:26 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/24/22 23:10 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 13:07 | SMC | EET MID |

## Client Sample ID: SW-1 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-6
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 14:46 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/24/22 23:30 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 13:24 | SMC | EET MID |

## Client Sample ID: SW-2 (6')
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

## Lab Sample ID: 880-21911-7
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 15:07 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/24/22 23:53 | SM | EET MID |

Eurofins Midland

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Client Sample ID: SW-2 (6')

**Lab Sample ID: 880-21911-7**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 13:29 | SMC | EET MID |

## Client Sample ID: SW-3 (6')

**Lab Sample ID: 880-21911-8**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 15:27 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/25/22 00:14 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 13:35 | SMC | EET MID |

## Client Sample ID: SW-4 (6')

**Lab Sample ID: 880-21911-9**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 15:48 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/25/22 00:35 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 13:41 | SMC | EET MID |

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

**Lab Sample ID: 880-21911-10**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 40254 | 11/22/22 17:45 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40265 | 11/23/22 16:08 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 16:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/25/22 00:57 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 13:46 | SMC | EET MID |

# Lab Chronicle

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

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

**Lab Sample ID: 880-21911-11**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 40278 | 11/23/22 10:41 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40267 | 11/23/22 13:03 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 14:50 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/25/22 01:40 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 17:29 | SMC | EET MID |

## Client Sample ID: SW-7 (6')

**Lab Sample ID: 880-21911-12**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 40278 | 11/23/22 10:41 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40267 | 11/23/22 13:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 14:50 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/25/22 02:01 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 14:09 | SMC | EET MID |

## Client Sample ID: SW-8 (6')

**Lab Sample ID: 880-21911-13**
**Matrix: Solid**
**Date Collected: 11/18/22 00:00**
**Date Received: 11/22/22 16:42**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 40279 | 11/23/22 10:46 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40266 | 11/23/22 13:41 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40472 | 11/28/22 15:35 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40381 | 11/28/22 08:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 40353 | 11/24/22 11:13 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40348 | 11/25/22 02:23 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 40269 | 11/23/22 08:35 | KS | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40292 | 11/23/22 14:14 | SMC | EET MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

## Laboratory: Eurofins Midland

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

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

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

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

# Method Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

| 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 | MCAWW | 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

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

# Sample Summary

Client: Carmona Resources
Project/Site: Vaca Draw ROW Release

Job ID: 880-21911-1
SDG: Lea Co, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 880-21911-1 | CS-1 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-2 | CS-2 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-3 | CS-3 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-4 | CS-4 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-5 | CS-5 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-6 | SW-1 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-7 | SW-2 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-8 | SW-3 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-9 | SW-4 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-10 | SW-5 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-11 | SW-6 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-12 | SW-7 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |
| 880-21911-13 | SW-8 (6') | Solid | 11/18/22 00:00 | 11/22/22 16:42 |

Work Order No: 21911

11/28/2022

Page 1 of 2

| | | | |
|---|---|---|---|
| Project Manager | Conner Moehring | Bill to (if different) | Joseph Vargo |
| Company Name | Carmona Resources | Company Name | NGL Water Solutions Permian |
| Address | 310 W Wall St Ste 415 | Address | 865 North Albion St. Ste 400 |
| City, State ZIP | Midland, TX 79701 | City, State ZIP | Denver, CO 80220 |
| Phone | 432-813-6823 | Email | joseph.vargo@nglep.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

| | | | |
|---|---|---|---|
| Project Name | Vaca Draw ROW Release | Turn Around | |
| Project Number | 1072 | ☐ Routine ☑ Rush | |
| Project Location | Lea Co, NM | Due Date | 24 Hours |
| Sampler's Name | CRM | | |
| PO # | | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank | Yes No | Wet Ice | Yes No |
| Received Intact: | Yes No | Thermometer ID | IR8 |
| Cooler Custody Seals | Yes No N/A | Correction Factor | -.3 |
| Sample Custody Seals | Yes No N/A | Temperature Reading | 4.8 |
| Total Containers | | Corrected Temperature | 4.6 |

**Preservative Codes**

None NO; DI Water $H_2O$; Cool Cool; MeOH Me; HCL HC; $HNO_3$ HN; $H_2SO_4$ $H_2$; NaOH Na; $H_3PO_4$ HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

| Sample Identification | Date | Time | Soil | Water | Grab/ Comp | # of Cont | Parameters: BTEX 8021B | TPH 8015M ( GRO + DRO + MRO) | Chloride 300 0 | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| CS-1 (6') | 11/18/2022 | | X | | C | 1 | X | X | X | 402 |
| CS-2 (6') | 11/18/2022 | | X | | C | 1 | X | X | X | |
| CS-3 (6') | 11/18/2022 | | X | | C | 1 | X | X | X | |
| CS-4 (6') | 11/22/2022 | | X | | C | 1 | X | X | X | |
| CS-5 (6') | 11/22/2022 | | X | | C | 1 | X | X | X | |
| SW-1 (6') | 11/18/2022 | | X | | C | 1 | X | X | X | |
| SW-2 (6') | 11/18/2022 | | X | | C | 1 | X | X | X | |
| SW-3 (6') | 11/18/2022 | | X | | C | 1 | X | X | X | |
| SW-4 (6') | 11/22/2022 | | X | | C | 1 | X | X | X | |
| SW-5 (6') | 11/22/2022 | | X | | C | 1 | X | X | X | |

880-21911 Chain of Custody

Comments:

| Relinquished by (Signature) | Date/Time | Received by: (Signature) | Date/Time |
|---|---|---|---|
| Conner Moehring | 11/22/22 1642 | | |

Work Order No: 21911

11/28/2022

Page 2 of 2

| | | | |
|---|---|---|---|
| Project Manager | Conner Moehring | Bill to (if different) | Joseph Vargo |
| Company Name | Carmona Resources | Company Name | NGL Water Solutions Permian |
| Address. | 310 W Wall St Ste 415 | Address | 865 North Albion St. Ste 400 |
| City, State ZIP | Midland, TX 79701 | City, State ZIP | Denver, CO 80220 |
| Phone | 432-813-6823 | Email | joseph.vargo@nglep.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name | Vaca Draw ROW Release | Turn Around | |
| Project Number | 1072 | ☐ Routine ☑ Rush | |
| Project Location | Lea Co, NM | Due Date | 24 Hours |
| Sampler's Name | CRM | | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank | Yes No | Wet Ice | Yes No | |
| Received Intact. | Yes No | Thermometer ID | | |
| Cooler Custody Seals. | Yes No N/A | Correction Factor | | |
| Sample Custody Seals | Yes No N/A | Temperature Reading | | |
| Total Containers. | | Corrected Temperature | | |

**ANALYSIS REQUEST**

| Sample Identification | Date | Time | Soil | Water | Grab/ Comp | # of Cont | Pres. Code | BTEX 8021B | TPH 8015M ( GRO + DRO + MRO) | Chloride 300 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| SW-6 (6') | 11/22/2022 | | X | | C | 1 | | X | X | X |
| SW-7 (6') | 11/22/2022 | | X | | C | 1 | | X | X | X |
| SW-8 (6') | 11/22/2022 | | X | | C | 1 | | X | X | X |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Parameters

**Preservative Codes**

| | |
|---|---|
| None NO | DI Water $H_2O$ |
| Cool Cool | MeOH Me |
| HCL. HC | $HNO_3$ HN |
| $H_2S0_4$ $H_2$ | NaOH Na |
| $H_3PO_4$ HP | |
| $NaHSO_4$ NABIS | |
| $Na_2S_2O_3$ $NaSO_3$ | |
| Zn Acetate+NaOH Zn | |
| NaOH+Ascorbic Acid SAPC | |

**Sample Comments**

Loc: 880
21911

Comments:

| Relinquished by (Signature) | Date/Time | Received by (Signature) | Date/Time |
|---|---|---|---|
| | 11/22/22 1642 | | |

# Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-21911-1
SDG Number: Lea Co, NM

**Login Number: 21911**
**List Number: 1**
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**

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

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

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

CONDITIONS

Action 162976

## CONDITIONS

| | |
|---|---|
| Operator:<br>NGL WATER SOLUTIONS PERMIAN, LLC<br>865 North Albion Street<br>Denver, CO 80220 | OGRID:<br>372338 |
| | Action Number:<br>162976 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| jnobui | Closure Report Approved. | 1/4/2023 |