



SITE INFORMATION

Closure Report

Rattlesnake 28 Fed Com CTB #709H Separator

Lea County, New Mexico

Incident ID: NAPP2320042853

Unit B Sec 28 T26S R33E

32.01937°, -103.57421°

Produced Water Release

Point of Release: Pinhole Leak on Valve to Separator

Release Date: 07/06/23

Volume Released: 15 barrels of Produced Water

Volume Recovered: 0 barrels of Produced Water

CARMONA RESOURCES



Prepared for:

EOG Resources, Inc

5509 Champions Dr.

Midland, TX 79706

Prepared by:

Carmona Resources, LLC

310 West Wall Street

Suite 500

Midland, Texas 79701



TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION FIGURE 4 EXCAVATION

APPENDICES

APPENDIX A TABLES

APPENDIX B PHOTOS

APPENDIX C INITIAL C-141 AND FINAL/NMOCD CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS



November 9, 2023

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

**Re: Closure Report
Rattlesnake 28 Fed Com CTB #709H Separator
EOG Resources, Inc
Incident # NAPP2320042853
Site Location: Unit B, S28, T26S, R33E
(Lat 32.01937°, Long -103.57421°)
Lea County, New Mexico**

To whom it may concern:

On behalf of EOG Resources, Inc. (EOG), Carmona Resources, LLC has prepared this letter to document site activities for the Rattlesnake 28 Fed Com CTB #709H Separator. The site is located at 32.01937°, -103.57421° within Unit B, S28, T26S, 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 July 6, 2023, from a pinhole leak on the valve to a separator. It resulted in the release of fifteen (15) barrels of produced water with zero (0) barrels recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.87 miles Northeast of the site in S22, T26S, R33E and was drilled in 2012. The well has a reported depth to groundwater of 110' below ground surface (ft bgs). A copy of the associated 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.

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432.813.1992



4.0 Site Assessment Activities

Initial Assessment

On July 13, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. Three (3) sample points (S-1 through S-3) and five (5) horizontal samples (H-1 through H-5) were advanced to depths ranging from the surface to 2' bgs inside the release area to assess the vertical extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

Vertical Delineation

The areas S-1, S-2, and S-3 were not delineated vertically due to a dense, cemented geological formation at a depth of 2' below the surface. Refer to Table 1.

Horizontal Delineation

The areas of H-4 and H-5 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. The areas of H-1, H-2, and H-3 showed high chloride concentrations ranging from 770 mg/kg to 878 mg/kg. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOC division office was notified via email on August 24, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-1, S-2, and S-3 were excavated to a depth of 3.5' below the surface below the surface to remove all the impacted soils. The areas of H-1, H-2, and H-3 were extended 2'-3' to ensure all impacted soils were removed. A total of eight (8) floor confirmation samples were collected (CS-1 through CS-8), and twelve (12) sidewall samples (SW-1 through SW-12) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory and reclamation 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 100 cubic yards of material were excavated and transported offsite for proper disposal.

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6.0 Conclusions

Based on the assessment results and the final analytical data, no further actions are required at the site. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Mike Carmona
Environmental Manager

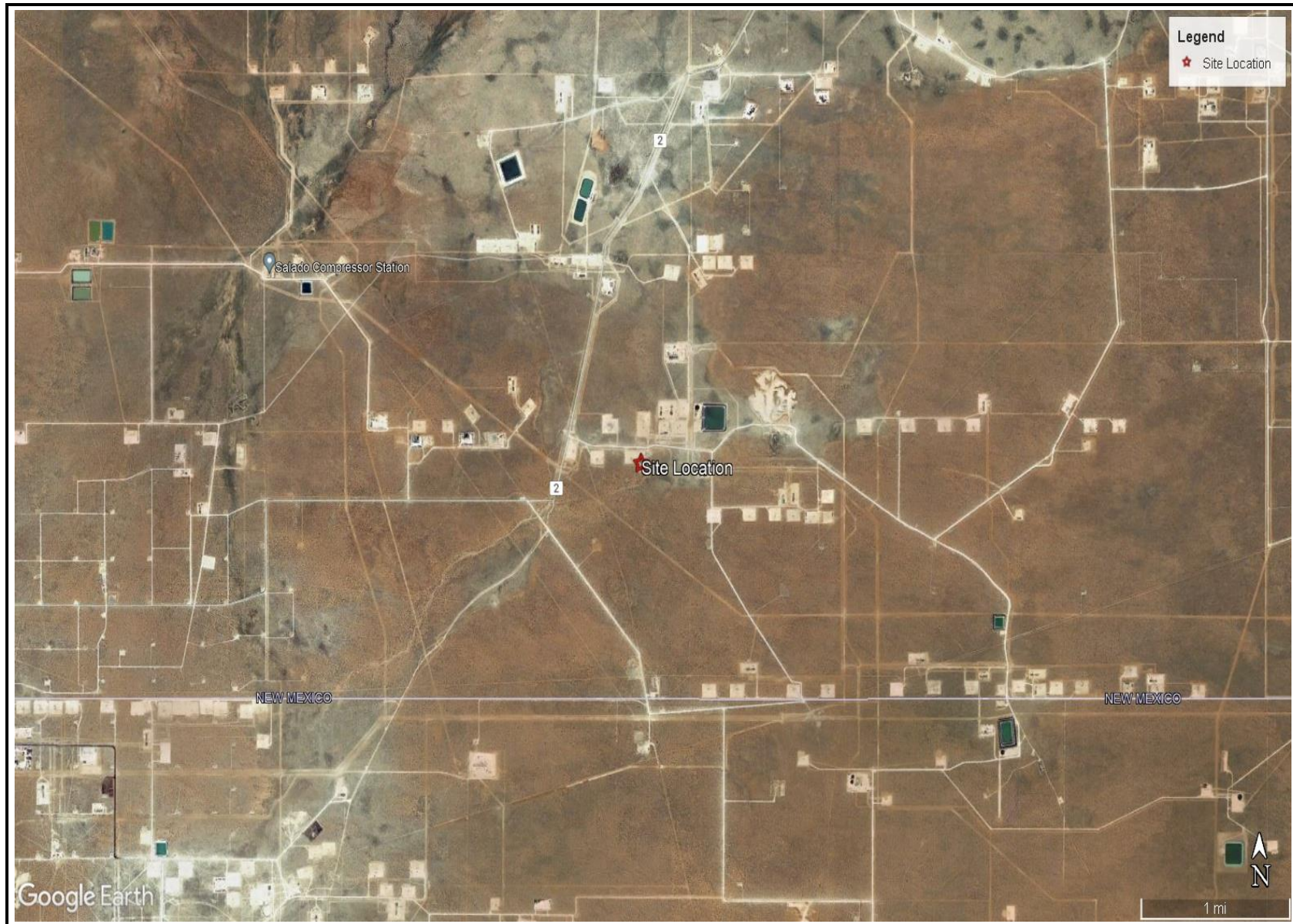
Conner Moehring
Sr. Project Manager

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FIGURES

CARMONA RESOURCES

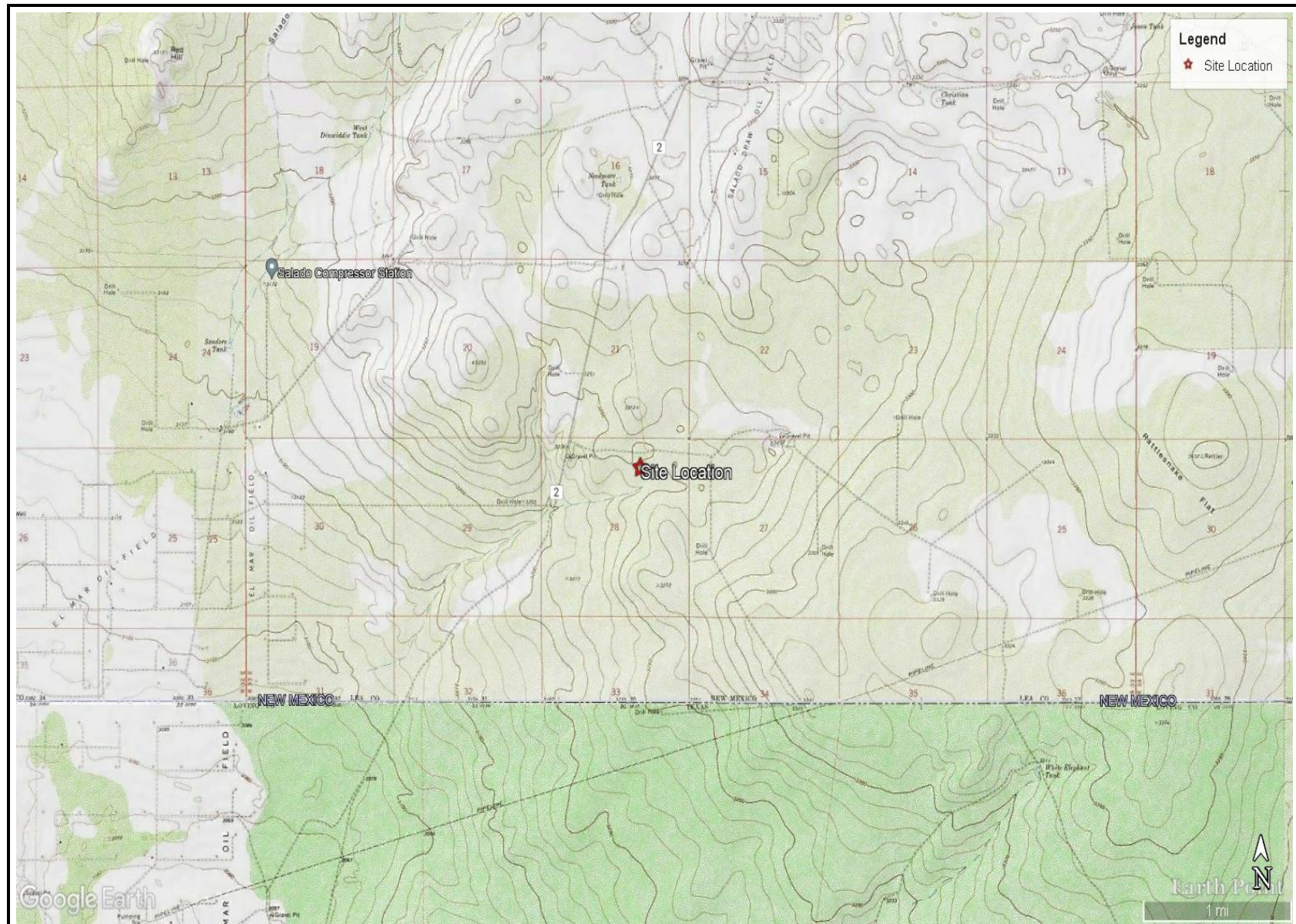




OVERVIEW MAP
EOG RESOURCES
RATTLESNAKE 28 FED COM CTB #709H SEPARATOR
LEA COUNTY, NEW MEXICO
32.01937°, -103.57421°



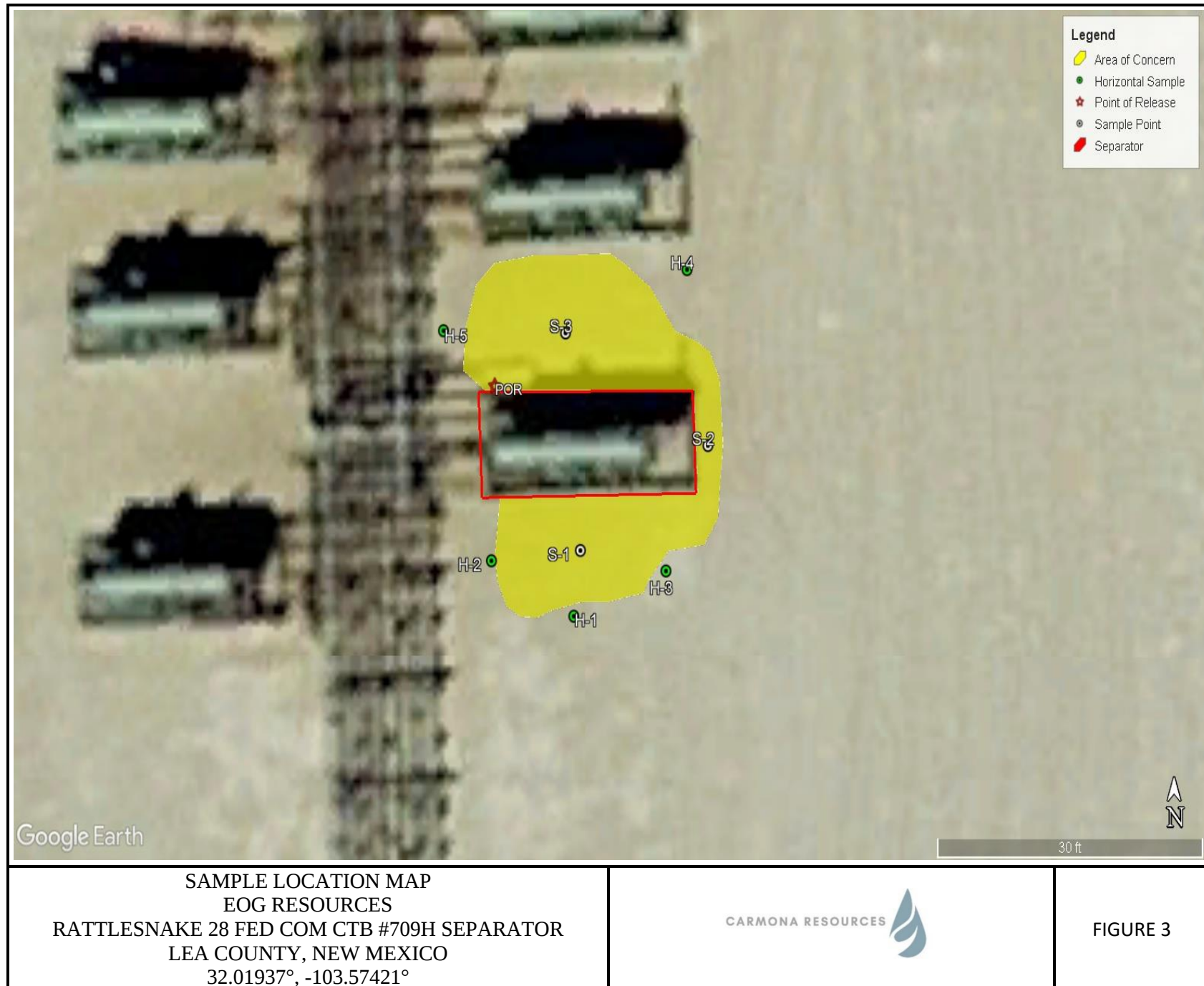
FIGURE 1

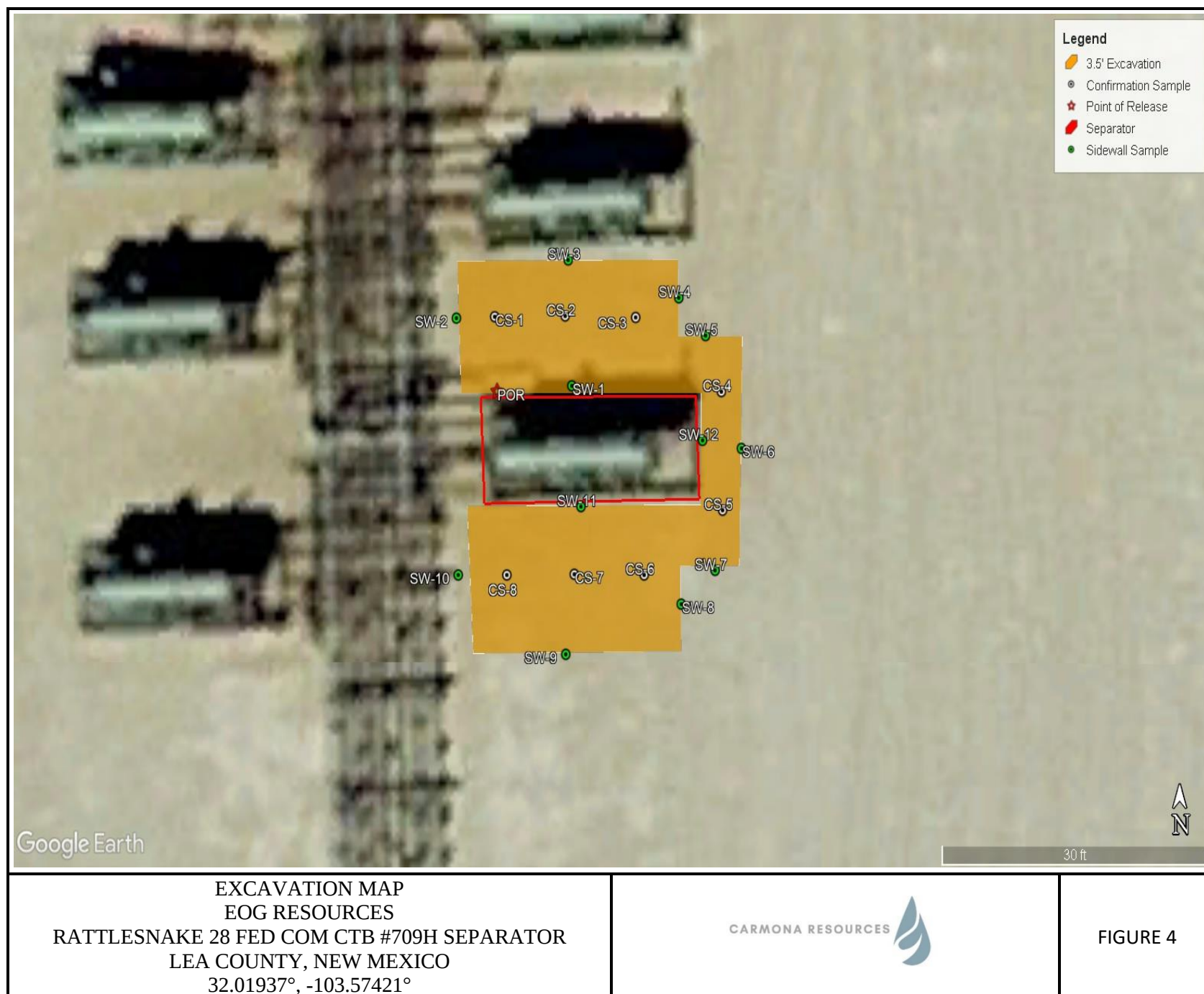


TOPOGRAPHIC MAP
EOG RESOURCES
RATTLESNAKE 28 FED COM CTB #709H SEPARATOR
LEA COUNTY, NEW MEXICO
32.01937°, -103.57421°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
EOG Resources
Rattlesnake 28 Fed Com CTB #709H Separator
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	7/13/2023	0-1	<50.1	59.2	<50.1	59.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14,900
	"	1.5	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,740
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	3,820
S-2	7/13/2023	0-1	<50.3	56.3	<50.3	56.3	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	30,500
	"	1.5	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,060
	"	2	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,780
S-3	7/13/2023	0-1	<50.0	70.6	<50.0	70.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	17,100
	"	1.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,880
	"	2	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,850
H-1	7/13/2023	0-0.5	<50.5	68.1	<50.5	68.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	848
H-2	7/13/2023	0-0.5	<50.3	61.8	<50.3	61.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	770
H-3	7/13/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	878
H-4	7/13/2023	0-0.5	<49.9	63.2	<49.9	63.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	45.4
H-5	7/13/2023	0-0.5	<49.6	60.7	<49.6	60.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	46.3
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(H) Horizontal Sample

Removed

Table 2
EOG Resources
Rattlesnake 28 Fed Com CTB #709H Separator
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	8/30/2023	3.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	111
CS-2	8/30/2023	3.5	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	114
CS-3	8/30/2023	3.5	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	111
CS-4	8/30/2023	3.5	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	228
CS-5	8/30/2023	3.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	90.4
CS-6	8/30/2023	3.5	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	100
CS-7	8/30/2023	3.5	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	105
CS-8	8/30/2023	3.5	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	115
SW-1	8/30/2023	3.5	<50.4	<50.4	<50.4	<50.4	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	105
SW-2	8/30/2023	3.5	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	109
SW-3	8/30/2023	3.5	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	121
SW-4	8/30/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	127
SW-5	8/30/2023	3.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	93.7
SW-6	8/30/2023	3.5	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	54.0
SW-7	8/30/2023	3.5	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	117
SW-8	8/30/2023	3.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	112
SW-9	8/30/2023	3.5	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	125
SW-10	8/30/2023	3.5	<50.4	<50.4	<50.4	<50.4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	109
SW-11	8/30/2023	3.5	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	116
SW-12	8/30/2023	3.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	119
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 Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

EOG Resources, Inc

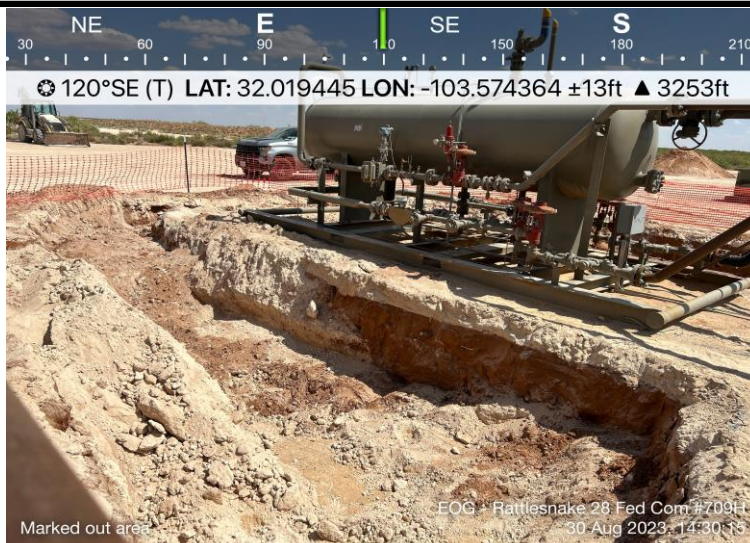
Photograph No. 1

Facility: Rattlesnake 28 Fed Com CTB
#709H Separator

County: Lea County, New Mexico

Description:

View Southeast, area of CS-1 through CS-3.



Photograph No. 2

Facility: Rattlesnake 28 Fed Com CTB
#709H Separator

County: Lea County, New Mexico

Description:

View North, area of CS-4 and CS-5.



Photograph No. 3

Facility: Rattlesnake 28 Fed Com CTB
#709H Separator

County: Lea County, New Mexico

Description:

View East, area of CS-6 through CS-8.



PHOTOGRAPHIC LOG

EOG Resources, Inc

Photograph No. 4

Facility: Rattlesnake 28 Fed Com CTB
#709H Separator

County: Lea County, New Mexico

Description:

View Northwest, backfilled area of CS-1 through CS-3.



Photograph No. 5

Facility: Rattlesnake 28 Fed Com CTB
#709H Separator

County: Lea County, New Mexico

Description:

View South, backfilled area of CS-4 and CS-5.



Photograph No. 6

Facility: Rattlesnake 28 Fed Com CTB
#709H Separator

County: Lea County, New Mexico

Description:

View North, backfilled area of CS-6 through CS-8.



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	nAPP2320042853
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2320042853
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.01937° Longitude -103.57421°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rattlesnake 28 Fed Com CTB #709H Separator	Site Type CTB
Date Release Discovered 7/6/23	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	28	26S	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) 15	Volume Recovered (bbls) 0
	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 pin hole leak developed on the 2" valve on the HP water leg to the #709H separator causing a produced water release. Approximately 15 bbls of produced water was released on the pad around the separator and 0 bbls recovered.

Incident ID	NAPP2320042853
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Todd Wells</u>	Title: <u>Environmental Specialist</u>
Signature: <u>Todd Wells</u>	Date: <u>7/19/23</u>
email: <u>Todd_Wells@eogresources.com</u>	Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>7/19/2023</u>

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.

State of New Mexico
Oil Conservation Division

Page 4

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: Todd Wells Date: 11/9/23

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/9/2023

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: Todd Wells Date: 11/9/23

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/9/2023

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

Closure Approved by: Nelson Velez Date: 02/23/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

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 242132

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 242132
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/19/2023

From: Wells, Shelly, EMNRD
Sent: Thursday, August 24, 2023 2:27 PM
To: Mike Carmona
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] EOG Rattlesnake 28 Fed Com CTB #709 Separator - Sampling Notification - Incident #nAPP2320042853

Good afternoon Mike,

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

Thank you,

Shelly

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

From: Mike Carmona <Mcarmona@carmonaresources.com>
Sent: Thursday, August 24, 2023 12:56 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Todd Wells <Todd_Wells@eogresources.com>; Conner Moehring <Cmoehring@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>
Subject: [EXTERNAL] EOG Rattlesnake 28 Fed Com CTB #709 Separator - Sampling Notification - Incident #nAPP2320042853

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

All,

This email serves as a notification for confirmation sampling on the EOG Rattlesnake 28 Fed Com CTB #709 Separator. Sampling is scheduled to begin on Tuesday, August 29th, around 11:00 a.m. Mountain Time and continue through the week. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident # nAPP2320042853

Mike J. Carmona

310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

CARMONA RESOURCES



APPENDIX D

CARMONA RESOURCES

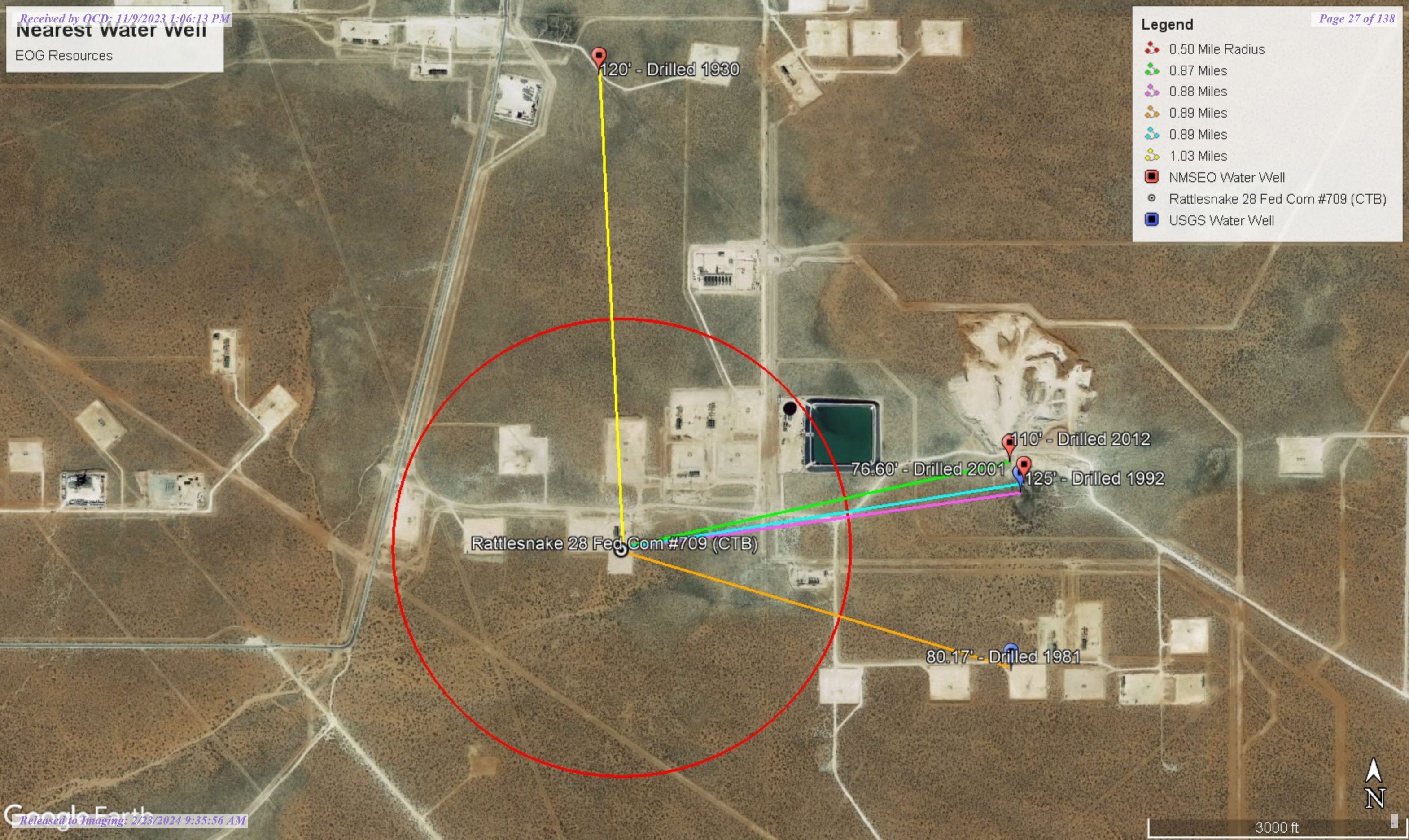


Nearest water well

EOG Resources

Legend

- 0.50 Mile Radius
- 0.87 Miles
- 0.88 Miles
- 0.89 Miles
- 0.89 Miles
- 1.03 Miles
- NMSEO Water Well
- Rattlesnake 28 Fed Com #709 (CTB)
- USGS Water Well



Medium Karst

EOG Resources

Legend



Low



Medium



Rattlesnake 28 Fed Com #709 (CTB)

Rattlesnake 28 Fed Com #709 (CTB)



5000 ft



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03577 POD1	CUB	LE		3	3	3	22	26S	33E	636010	3543771	1390	750	110	640
C 03596 POD1	C	LE		3	3	4	22	26S	33E	636017	3543756	1393	225		
C 02270	CUB	LE		1	1	2	27	26S	33E	636063	3543722	1432	150	125	25
C 02273	CUB	LE			1	2	21	26S	33E	634549	3545134*	1663	160	120	40

Average Depth to Water: **118 feet**

Minimum Depth: **110 feet**

Maximum Depth: **125 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 634652

Northing (Y): 3543474

Radius: 4000

*UTM location was derived from PLSS - see Help

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7/13/23 5:23 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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	03577 POD1	3	3	3	22	26S	33E	636010	3543771		
x											
Driller License: 1654		Driller Company:				NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC					
Driller Name:											
Drill Start Date: 11/19/2012		Drill Finish Date:				11/20/2012		Plug Date:			
Log File Date: 12/11/2012		PCW Rev Date:								Source: Shallow	
Pump Type:		Pipe Discharge Size:								Estimated Yield: 35 GPM	
Casing Size: 6.00		Depth Well:				750 feet		Depth Water:		110 feet	

Water Bearing Stratifications:		Top	Bottom	Description
		95	150	Sandstone/Gravel/Conglomerate
		200	710	Sandstone/Gravel/Conglomerate

Casing Perforations:		Top	Bottom
		180	200
		690	750

Meter Number: 16570		Meter Make: MASTERMETER	
Meter Serial Number: 6985354		Meter Multiplier: 100.0000	
Number of Dials: 6		Meter Type: Diversion	
Unit of Measure: Gallons		Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/01/2014	2014	123440	A	RPT		0
07/01/2014	2014	160772	A	RPT		11.457
10/01/2014	2014	193527	A	RPT		10.052
12/31/2014	2014	237836	A	RPT		13.598
02/01/2015	2015	247102	A	RPT		2.844
03/02/2015	2015	260095	A	RPT		3.987
04/01/2015	2015	268444	A	RPT		2.562
04/30/2015	2015	284991	A	RPT		5.078
05/31/2015	2015	296985	A	RPT		3.681
07/01/2015	2015	313077	A	RPT		4.938
08/01/2015	2015	321571	A	RPT		2.607
08/31/2015	2015	333738	A	RPT		3.734
10/01/2015	2015	340361	A	RPT		2.033

**YTD Meter Amounts:	Year	Amount
	2014	35.107
	2015	31.464

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7/13/23 5:24 PM POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320059103333501

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

USGS 320059103333501 26S.33E.27.21112

Lea County, New Mexico
Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83
Land-surface elevation 3,252.00 feet above NGVD29
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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 of measurement
1954-07-26			D 62610		3172.29	NGVD29	1		Z	
1954-07-26			D 62611		3173.87	NAVD88	1		Z	
1954-07-26			D 72019	79.71			1		Z	
1976-01-08			D 62610		3175.48	NGVD29	1		Z	
1976-01-08			D 62611		3177.06	NAVD88	1		Z	
1976-01-08			D 72019	76.52			1		Z	
1986-03-04			D 62610		3174.86	NGVD29	1		Z	
1986-03-04			D 62611		3176.44	NAVD88	1		Z	
1986-03-04			D 72019	77.14			1		Z	
1990-11-27			D 62610		3175.46	NGVD29	1		Z	
1990-11-27			D 62611		3177.04	NAVD88	1		Z	
1990-11-27			D 72019	76.54			1		Z	
1996-03-05			D 62610		3174.61	NGVD29	1		S	
1996-03-05			D 62611		3176.19	NAVD88	1		S	

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 of measurement
1996-03-05			D72019	77.39			1		S	
2001-02-27			D62610		3175.40	NGVD29	1		S	
2001-02-27			D62611		3176.98	NAVD88	1		S	
2001-02-27			D72019	76.60			1		S	

Explanation

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

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



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Page Last Modified: 2023-07-13 19:30:06 EDT
0.29 0.26 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	02270	1	1	2	27	26S	33E	636063	3543722

x

Driller License: 208 **Driller Company:** VAN NOY, W.L.

Driller Name: UNKNOWN

Drill Start Date: 08/28/1992	Drill Finish Date: 12/31/1910	Plug Date:
Log File Date: 10/28/1992	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 15 GPM
Casing Size: 8.00	Depth Well: 150 feet	Depth Water: 125 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	225	265	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	205	265

x

Meter Number: 16561	Meter Make: MASTERMETER
Meter Serial Number: 8112517	Meter Multiplier: 100.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/01/2014	2014	132970	A	RPT		0
07/01/2014	2014	145195	A	RPT		3.752
10/01/2014	2014	153126	A	RPT		2.434
12/31/2014	2014	153126	A	RPT		0
02/01/2015	2015	153126	A	RPT		0
03/01/2015	2015	153126	A	RPT		0
04/01/2015	2015	153126	A	RPT		0
05/01/2015	2015	153126	A	RPT		0
05/31/2015	2015	153126	A	RPT		0
07/01/2015	2015	153126	A	RPT		0
08/01/2015	2015	153126	A	RPT		0
10/01/2015	2015	153216	A	RPT		0.028

**YTD Meter Amounts:	Year	Amount
	2014	6.186
	2015	0.028

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POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320056103333501

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

USGS 320056103333501 26S.33E.27.21132

Lea County, New Mexico
Latitude 32°00'56", Longitude 103°33'35" NAD27
Land-surface elevation 3,273 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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 of measurement
1970-12-07			D	62610	3195.49	NGVD29	1	Z		
1970-12-07			D	62611	3197.07	NAVD88	1	Z		
1970-12-07			D	72019	75.93		1	Z		
1976-01-08			D	62610	3195.65	NGVD29	1	Z		
1976-01-08			D	62611	3197.23	NAVD88	1	Z		
1976-01-08			D	72019	75.77		1	Z		
1981-03-25			D	62610	3191.25	NGVD29	1	Z		
1981-03-25			D	62611	3192.83	NAVD88	1	Z		
1981-03-25			D	72019	80.17		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
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
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.

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URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



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Page Last Modified: 2023-07-13 19:29:07 EDT
0.28 0.25 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 02273		1	2	21	26S	33E	634549	3545134* 
Driller License:		122		Driller Company:			UNKNOWN		
Driller Name:		UNKNOWN							
Drill Start Date:		Drill Finish Date:				12/31/1930		Plug Date:	
Log File Date:		PCW Rev Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:		5 GPM	
Casing Size:		6.00		Depth Well:			160 feet		Depth Water: 120 feet

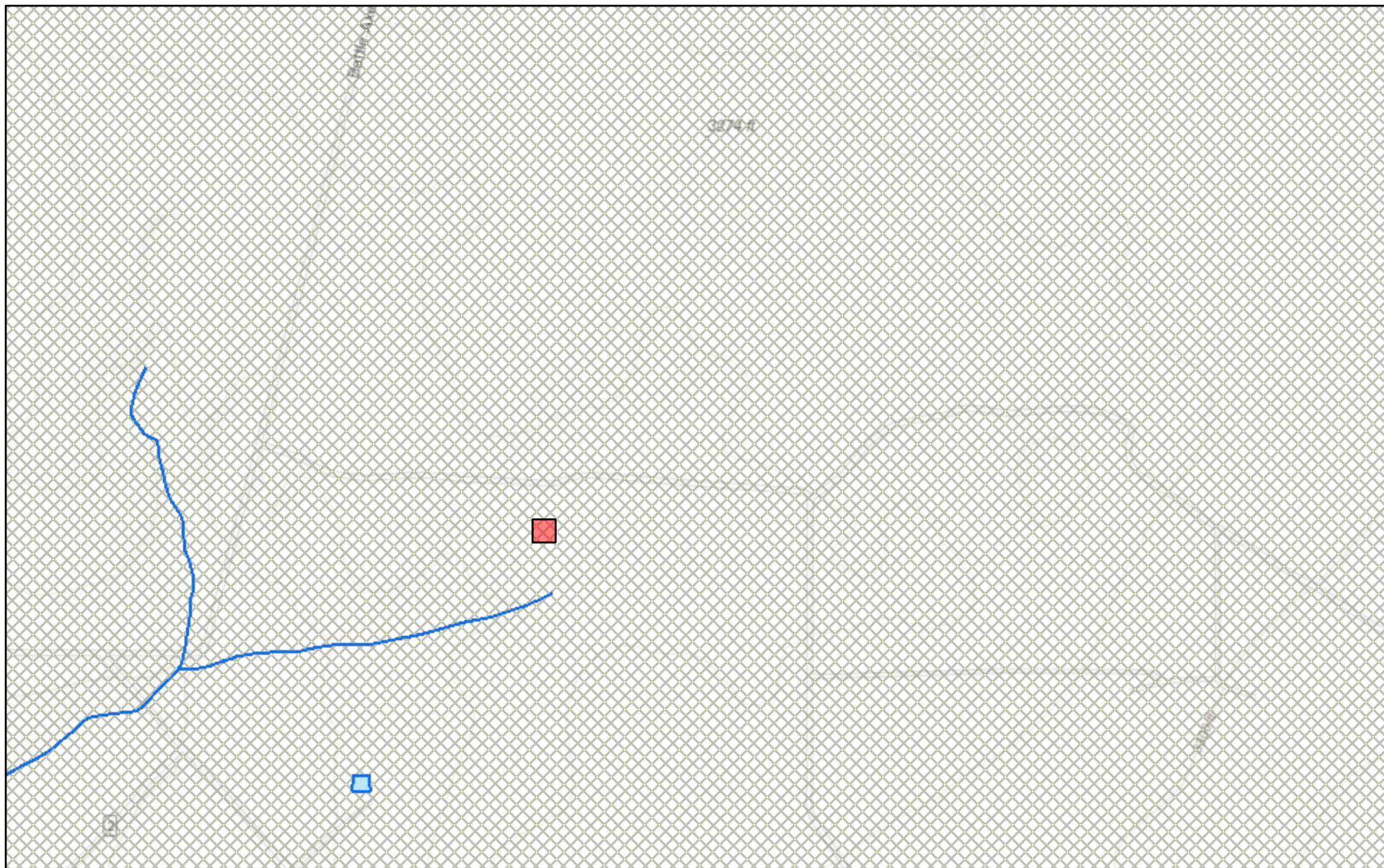
*UTM location was derived from PLSS - see Help

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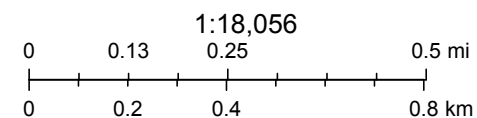
7/13/23 5:27 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



July 13, 2023



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

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APPENDIX E

CARMONA RESOURCES





Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 7/24/2023 3:00:49 PM

JOB DESCRIPTION

Rattlesnake 28 Fed Com #709 (CTB)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-30794-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
7/24/2023 3:00:49 PM

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

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Laboratory Job ID: 880-30794-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	20
Lab Chronicle	23
Certification Summary	26
Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	30

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
SQL	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: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Job ID: 880-30794-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-30794-1****Receipt**

The samples were received on 7/17/2023 2:00 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 -10.3°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-57991/33). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57991 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57991/2).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57991 recovered below the lower control limit for Ethylbenzene and m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-57991/33).

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57942 and analytical batch 880-58261 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-30793-A-2-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-30794-1), S-1 (1.5') (880-30794-2), S-1 (2') (880-30794-3), S-2 (0-1') (880-30794-4), S-2 (1.5') (880-30794-5), S-2 (2') (880-30794-6), S-3 (0-1') (880-30794-7), S-3 (1.5') (880-30794-8) and S-3 (2') (880-30794-9). 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.

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: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30794-1

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/18/23 08:19	07/18/23 19:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 19:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 19:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 19:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 19:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/18/23 08:19	07/18/23 19:40	1
1,4-Difluorobenzene (Surr)	70		70 - 130	07/18/23 08:19	07/18/23 19:40	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			07/19/23 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.2		50.1		mg/Kg			07/24/23 15:27	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	<50.1	U	50.1		mg/Kg		07/18/23 11:39	07/22/23 14:32	1
Diesel Range Organics (Over C10-C28)	59.2		50.1		mg/Kg		07/18/23 11:39	07/22/23 14:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/18/23 11:39	07/22/23 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	07/18/23 11:39	07/22/23 14:32	1
o-Terphenyl	139	S1+	70 - 130	07/18/23 11:39	07/22/23 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14900		99.8		mg/Kg			07/18/23 09:03	20

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-30794-2

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/18/23 08:19	07/18/23 20:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 20:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 20:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 20:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 20:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/18/23 08:19	07/18/23 20:01	1
1,4-Difluorobenzene (Surr)	70		70 - 130	07/18/23 08:19	07/18/23 20:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-30794-2

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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			07/19/23 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			07/24/23 15:27	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	<50.2	U	50.2		mg/Kg		07/18/23 11:39	07/22/23 15:12	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		07/18/23 11:39	07/22/23 15:12	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/18/23 11:39	07/22/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				07/18/23 11:39	07/22/23 15:12	1
o-Terphenyl	150	S1+	70 - 130				07/18/23 11:39	07/22/23 15:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3740		25.0		mg/Kg			07/18/23 09:19	5

Client Sample ID: S-1 (2')

Lab Sample ID: 880-30794-3

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/19/23 08:07	07/19/23 17:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/19/23 08:07	07/19/23 17:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/19/23 08:07	07/19/23 17:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/19/23 08:07	07/19/23 17:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/19/23 08:07	07/19/23 17:22	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/19/23 08:07	07/19/23 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				07/19/23 08:07	07/19/23 17:22	1
1,4-Difluorobenzene (Surr)	77		70 - 130				07/19/23 08:07	07/19/23 17:22	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			07/20/23 10:59	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			07/24/23 15:27	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		07/18/23 11:39	07/22/23 15:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/18/23 11:39	07/22/23 15:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-30794-3

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/18/23 11:39	07/22/23 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				07/18/23 11:39	07/22/23 15:34	1
o-Terphenyl	154	S1+	70 - 130				07/18/23 11:39	07/22/23 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3820		24.8		mg/Kg			07/18/23 09:24	5

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

Lab Sample ID: 880-30794-4

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/19/23 08:07	07/19/23 17:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 17:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 17:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/19/23 08:07	07/19/23 17:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 17:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/19/23 08:07	07/19/23 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				07/19/23 08:07	07/19/23 17:42	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/19/23 08:07	07/19/23 17:42	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			07/20/23 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.3		50.3		mg/Kg			07/24/23 15:27	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	<50.3	U	50.3		mg/Kg		07/18/23 11:39	07/22/23 15:56	1
Diesel Range Organics (Over C10-C28)	56.3		50.3		mg/Kg		07/18/23 11:39	07/22/23 15:56	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/18/23 11:39	07/22/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				07/18/23 11:39	07/22/23 15:56	1
o-Terphenyl	158	S1+	70 - 130				07/18/23 11:39	07/22/23 15:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30500		251		mg/Kg			07/18/23 09:29	50

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-30794-5

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/19/23 08:07	07/19/23 18:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/19/23 08:07	07/19/23 18:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/19/23 08:07	07/19/23 18:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/19/23 08:07	07/19/23 18:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/19/23 08:07	07/19/23 18:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/19/23 08:07	07/19/23 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/19/23 08:07	07/19/23 18:03	1
1,4-Difluorobenzene (Surr)	77		70 - 130	07/19/23 08:07	07/19/23 18:03	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			07/20/23 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			07/24/23 15:27	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	<50.4	U	50.4		mg/Kg		07/18/23 11:39	07/22/23 16:19	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		07/18/23 11:39	07/22/23 16:19	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/18/23 11:39	07/22/23 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	07/18/23 11:39	07/22/23 16:19	1
o-Terphenyl	140	S1+	70 - 130	07/18/23 11:39	07/22/23 16:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4060		49.9		mg/Kg			07/18/23 09:34	10

Client Sample ID: S-2 (2')

Lab Sample ID: 880-30794-6

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/19/23 08:07	07/19/23 18:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 18:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 18:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/19/23 08:07	07/19/23 18:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 18:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/19/23 08:07	07/19/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/19/23 08:07	07/19/23 18:23	1
1,4-Difluorobenzene (Surr)	80		70 - 130	07/19/23 08:07	07/19/23 18:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-30794-6

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/20/23 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/24/23 15:27	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	<50.1	U	50.1		mg/Kg		07/18/23 11:39	07/22/23 17:10	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/18/23 11:39	07/22/23 17:10	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/18/23 11:39	07/22/23 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				07/18/23 11:39	07/22/23 17:10	1
o-Terphenyl	139	S1+	70 - 130				07/18/23 11:39	07/22/23 17:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3780		25.3		mg/Kg			07/18/23 09:50	5

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

Lab Sample ID: 880-30794-7

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/19/23 08:07	07/19/23 18:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/19/23 08:07	07/19/23 18:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/19/23 08:07	07/19/23 18:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/19/23 08:07	07/19/23 18:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/19/23 08:07	07/19/23 18:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/19/23 08:07	07/19/23 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				07/19/23 08:07	07/19/23 18:44	1
1,4-Difluorobenzene (Surr)	75		70 - 130				07/19/23 08:07	07/19/23 18:44	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			07/20/23 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.6		50.0		mg/Kg			07/24/23 15:27	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		07/18/23 11:39	07/22/23 17:32	1
Diesel Range Organics (Over C10-C28)	70.6		50.0		mg/Kg		07/18/23 11:39	07/22/23 17:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30794-7

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/23 11:39	07/22/23 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130				07/18/23 11:39	07/22/23 17:32	1
o-Terphenyl	178	S1+	70 - 130				07/18/23 11:39	07/22/23 17:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17100		100		mg/Kg			07/18/23 09:55	20

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-30794-8

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/19/23 08:07	07/19/23 19:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/19/23 08:07	07/19/23 19:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/19/23 08:07	07/19/23 19:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/19/23 08:07	07/19/23 19:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/19/23 08:07	07/19/23 19:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/19/23 08:07	07/19/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				07/19/23 08:07	07/19/23 19:04	1
1,4-Difluorobenzene (Surr)	85		70 - 130				07/19/23 08:07	07/19/23 19:04	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			07/20/23 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			07/24/23 15:27	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	<50.3	U	50.3		mg/Kg		07/18/23 11:39	07/22/23 17:54	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		07/18/23 11:39	07/22/23 17:54	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/18/23 11:39	07/22/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	224	S1+	70 - 130				07/18/23 11:39	07/22/23 17:54	1
o-Terphenyl	258	S1+	70 - 130				07/18/23 11:39	07/22/23 17:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3880		24.9		mg/Kg			07/18/23 10:00	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2')

Lab Sample ID: 880-30794-9

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/19/23 08:07	07/19/23 19:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/19/23 08:07	07/19/23 19:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/19/23 08:07	07/19/23 19:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/19/23 08:07	07/19/23 19:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/19/23 08:07	07/19/23 19:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/19/23 08:07	07/19/23 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/19/23 08:07	07/19/23 19:25	1
1,4-Difluorobenzene (Surr)	75		70 - 130	07/19/23 08:07	07/19/23 19:25	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			07/20/23 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			07/24/23 15:27	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	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 18:16	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 18:16	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	07/18/23 11:39	07/22/23 18:16	1
o-Terphenyl	136	S1+	70 - 130	07/18/23 11:39	07/22/23 18:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3850		25.0		mg/Kg			07/18/23 10:05	5

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (70-130)	DFBZ1 (70-130)				
880-30794-1	S-1 (0-1')	92	70				
880-30794-2	S-1 (1.5')	92	70				
880-30794-3	S-1 (2')	87	77				
880-30794-4	S-2 (0-1')	92	76				
880-30794-5	S-2 (1.5')	92	77				
880-30794-6	S-2 (2')	88	80				
880-30794-7	S-3 (0-1')	89	75				
880-30794-8	S-3 (1.5')	79	85				
880-30794-9	S-3 (2')	87	75				
880-30832-A-1-A MS	Matrix Spike	120	100				
880-30832-A-1-B MSD	Matrix Spike Duplicate	114	86				
880-30910-A-1-B MS	Matrix Spike	115	108				
880-30910-A-1-C MSD	Matrix Spike Duplicate	120	108				
LCS 880-57901/1-A	Lab Control Sample	117	101				
LCS 880-57971/1-A	Lab Control Sample	108	105				
LCSD 880-57901/2-A	Lab Control Sample Dup	118	105				
LCSD 880-57971/2-A	Lab Control Sample Dup	115	102				
MB 880-57901/5-A	Method Blank	75	89				
MB 880-57971/5-B	Method Blank	73	92				
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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		1CO1 (70-130)	OTPH1 (70-130)				
880-30793-A-2-E MS	Matrix Spike	103	113				
880-30793-A-2-F MSD	Matrix Spike Duplicate	107	115				
880-30794-1	S-1 (0-1')	121	139 S1+				
880-30794-2	S-1 (1.5')	132 S1+	150 S1+				
880-30794-3	S-1 (2')	134 S1+	154 S1+				
880-30794-4	S-2 (0-1')	134 S1+	158 S1+				
880-30794-5	S-2 (1.5')	119	140 S1+				
880-30794-6	S-2 (2')	120	139 S1+				
880-30794-7	S-3 (0-1')	155 S1+	178 S1+				
880-30794-8	S-3 (1.5')	224 S1+	258 S1+				
880-30794-9	S-3 (2')	121	136 S1+				
LCS 880-57942/2-A	Lab Control Sample	85	106				
LCSD 880-57942/3-A	Lab Control Sample Dup	92	114				
MB 880-57942/1-A	Method Blank	170 S1+	197 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57901/5-A

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/23 08:19	07/18/23 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	07/18/23 08:19	07/18/23 11:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/18/23 08:19	07/18/23 11:08	1

Lab Sample ID: LCS 880-57901/1-A

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	0.100	0.09011		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2282		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1130		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-57901/2-A

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1098		mg/Kg		110	70 - 130	7	35
Toluene	0.100	0.09791		mg/Kg		98	70 - 130	8	35
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2404		mg/Kg		120	70 - 130	5	35
o-Xylene	0.100	0.1187		mg/Kg		119	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-30832-A-1-A MS

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.1065		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.0994	0.09528		mg/Kg		96	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30832-A-1-A MS

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0994	0.1091		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2281		mg/Kg		115	70 - 130
o-Xylene	<0.00198	U	0.0994	0.1127		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-30832-A-1-B MSD

Matrix: Solid

Analysis Batch: 57899

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1035		mg/Kg		104	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.09464		mg/Kg		95	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.0998	0.1076		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2220		mg/Kg		111	70 - 130	3	35
o-Xylene	<0.00198	U	0.0998	0.1094		mg/Kg		110	70 - 130	3	35

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

Lab Sample ID: MB 880-57971/5-B

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/19/23 08:07	07/19/23 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:07	07/19/23 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/19/23 08:07	07/19/23 12:32	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	07/19/23 08:07	07/19/23 12:32	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/19/23 08:07	07/19/23 12:32	1

Lab Sample ID: LCS 880-57971/1-A

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1089		mg/Kg		109	70 - 130
Toluene	0.100	0.09661		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2322		mg/Kg		116	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-57971/1-A

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-57971/2-A

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1185		mg/Kg		118	70 - 130	8	35
Toluene	0.100	0.1062		mg/Kg		106	70 - 130	9	35
Ethylbenzene	0.100	0.1211		mg/Kg		121	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2541		mg/Kg		127	70 - 130	9	35
o-Xylene	0.100	0.1244		mg/Kg		124	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-30910-A-1-B MS

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57971

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0994	0.1063		mg/Kg		107	70 - 130
Toluene	<0.00199	U	0.0994	0.08783		mg/Kg		88	70 - 130
Ethylbenzene	<0.00199	U	0.0994	0.09745		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1990		mg/Kg		100	70 - 130
o-Xylene	<0.00199	U	0.0994	0.09717		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-30910-A-1-C MSD

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57971

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.1107		mg/Kg		111	70 - 130	4	35
Toluene	<0.00199	U	0.0998	0.09167		mg/Kg		91	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.0998	0.1043		mg/Kg		105	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2133		mg/Kg		107	70 - 130	7	35
o-Xylene	<0.00199	U	0.0998	0.1052		mg/Kg		105	70 - 130	8	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30910-A-1-C MSD

Matrix: Solid

Analysis Batch: 57991

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57971

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-57942/1-A

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57942

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/18/23 11:36	07/22/23 09:08	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/18/23 11:36	07/22/23 09:08	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/23 11:36	07/22/23 09:08	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	170	S1+	70 - 130				07/18/23 11:36	07/22/23 09:08	1	
o-Terphenyl	197	S1+	70 - 130				07/18/23 11:36	07/22/23 09:08	1	

Lab Sample ID: LCS 880-57942/2-A

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57942

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1114		mg/Kg		111	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	977.6		mg/Kg		98	70 - 130			
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	85		70 - 130							
o-Terphenyl	106		70 - 130							

Lab Sample ID: LCSD 880-57942/3-A

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57942

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	1000		mg/Kg		100	70 - 130	11	20	
Diesel Range Organics (Over C10-C28)	1000	1032		mg/Kg		103	70 - 130	5	20	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	92		70 - 130							
o-Terphenyl	114		70 - 130							

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30793-A-2-E MS

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1000	864.5		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	61.8		1000	934.3		mg/Kg		87	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 880-30793-A-2-F MSD

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57942

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	<50.3	U	1000	1003		mg/Kg		100	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	61.8		1000	953.8		mg/Kg		89	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	115		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57872/1-A

Matrix: Solid

Analysis Batch: 57929

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			07/18/23 08:48	1

Lab Sample ID: LCS 880-57872/2-A

Matrix: Solid

Analysis Batch: 57929

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-57872/3-A

Matrix: Solid

Analysis Batch: 57929

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	244.2		mg/Kg		98	90 - 110	2	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-30794-1 MS											Client Sample ID: S-1 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 57929													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	14900		4990	19660		mg/Kg		96	90 - 110				

Lab Sample ID: 880-30794-1 MSD											Client Sample ID: S-1 (0-1')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 57929													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	14900		4990	19720		mg/Kg		98	90 - 110	0	20		

QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 57899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Total/NA	Solid	8021B	57901
880-30794-2	S-1 (1.5')	Total/NA	Solid	8021B	57901
MB 880-57901/5-A	Method Blank	Total/NA	Solid	8021B	57901
LCS 880-57901/1-A	Lab Control Sample	Total/NA	Solid	8021B	57901
LCSD 880-57901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57901
880-30832-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	57901
880-30832-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57901

Prep Batch: 57901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Total/NA	Solid	5035	
880-30794-2	S-1 (1.5')	Total/NA	Solid	5035	
MB 880-57901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30832-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-30832-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 57971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-3	S-1 (2')	Total/NA	Solid	5035	
880-30794-4	S-2 (0-1')	Total/NA	Solid	5035	
880-30794-5	S-2 (1.5')	Total/NA	Solid	5035	
880-30794-6	S-2 (2')	Total/NA	Solid	5035	
880-30794-7	S-3 (0-1')	Total/NA	Solid	5035	
880-30794-8	S-3 (1.5')	Total/NA	Solid	5035	
880-30794-9	S-3 (2')	Total/NA	Solid	5035	
MB 880-57971/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-57971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30910-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-30910-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-3	S-1 (2')	Total/NA	Solid	8021B	57971
880-30794-4	S-2 (0-1')	Total/NA	Solid	8021B	57971
880-30794-5	S-2 (1.5')	Total/NA	Solid	8021B	57971
880-30794-6	S-2 (2')	Total/NA	Solid	8021B	57971
880-30794-7	S-3 (0-1')	Total/NA	Solid	8021B	57971
880-30794-8	S-3 (1.5')	Total/NA	Solid	8021B	57971
880-30794-9	S-3 (2')	Total/NA	Solid	8021B	57971
MB 880-57971/5-B	Method Blank	Total/NA	Solid	8021B	57971
LCS 880-57971/1-A	Lab Control Sample	Total/NA	Solid	8021B	57971
LCSD 880-57971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57971
880-30910-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	57971
880-30910-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57971

Analysis Batch: 58002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 58002 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-30794-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-30794-4	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-30794-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-30794-6	S-2 (2')	Total/NA	Solid	Total BTEX	
880-30794-7	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-30794-8	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-30794-9	S-3 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 57942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-30794-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-30794-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-30794-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-30794-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-30794-6	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-30794-7	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-30794-8	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-30794-9	S-3 (2')	Total/NA	Solid	8015NM Prep	
MB 880-57942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30793-A-2-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30793-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Total/NA	Solid	8015B NM	57942
880-30794-2	S-1 (1.5')	Total/NA	Solid	8015B NM	57942
880-30794-3	S-1 (2')	Total/NA	Solid	8015B NM	57942
880-30794-4	S-2 (0-1')	Total/NA	Solid	8015B NM	57942
880-30794-5	S-2 (1.5')	Total/NA	Solid	8015B NM	57942
880-30794-6	S-2 (2')	Total/NA	Solid	8015B NM	57942
880-30794-7	S-3 (0-1')	Total/NA	Solid	8015B NM	57942
880-30794-8	S-3 (1.5')	Total/NA	Solid	8015B NM	57942
880-30794-9	S-3 (2')	Total/NA	Solid	8015B NM	57942
MB 880-57942/1-A	Method Blank	Total/NA	Solid	8015B NM	57942
LCS 880-57942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57942
LCSD 880-57942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57942
880-30793-A-2-E MS	Matrix Spike	Total/NA	Solid	8015B NM	57942
880-30793-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57942

Analysis Batch: 58390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-30794-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-30794-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-30794-4	S-2 (0-1')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 58390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-5	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-30794-6	S-2 (2')	Total/NA	Solid	8015 NM	
880-30794-7	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-30794-8	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-30794-9	S-3 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-30794-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-30794-3	S-1 (2')	Soluble	Solid	DI Leach	
880-30794-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-30794-5	S-2 (1.5')	Soluble	Solid	DI Leach	
880-30794-6	S-2 (2')	Soluble	Solid	DI Leach	
880-30794-7	S-3 (0-1')	Soluble	Solid	DI Leach	
880-30794-8	S-3 (1.5')	Soluble	Solid	DI Leach	
880-30794-9	S-3 (2')	Soluble	Solid	DI Leach	
MB 880-57872/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57872/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57872/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30794-1 MS	S-1 (0-1')	Soluble	Solid	DI Leach	
880-30794-1 MSD	S-1 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 57929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30794-1	S-1 (0-1')	Soluble	Solid	300.0	57872
880-30794-2	S-1 (1.5')	Soluble	Solid	300.0	57872
880-30794-3	S-1 (2')	Soluble	Solid	300.0	57872
880-30794-4	S-2 (0-1')	Soluble	Solid	300.0	57872
880-30794-5	S-2 (1.5')	Soluble	Solid	300.0	57872
880-30794-6	S-2 (2')	Soluble	Solid	300.0	57872
880-30794-7	S-3 (0-1')	Soluble	Solid	300.0	57872
880-30794-8	S-3 (1.5')	Soluble	Solid	300.0	57872
880-30794-9	S-3 (2')	Soluble	Solid	300.0	57872
MB 880-57872/1-A	Method Blank	Soluble	Solid	300.0	57872
LCS 880-57872/2-A	Lab Control Sample	Soluble	Solid	300.0	57872
LCSD 880-57872/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57872
880-30794-1 MS	S-1 (0-1')	Soluble	Solid	300.0	57872
880-30794-1 MSD	S-1 (0-1')	Soluble	Solid	300.0	57872

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30794-1

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 19:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 14:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		20			57929	07/18/23 09:03	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-30794-2

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 20:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 15:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		5			57929	07/18/23 09:19	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-30794-3

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57971	07/19/23 08:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/19/23 17:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/20/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 15:34	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		5			57929	07/18/23 09:24	CH	EET MID

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

Lab Sample ID: 880-30794-4

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57971	07/19/23 08:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/19/23 17:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/20/23 10:59	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30794-4

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		50			57929	07/18/23 09:29	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-30794-5

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57971	07/19/23 08:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/19/23 18:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/20/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 16:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		10			57929	07/18/23 09:34	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-30794-6

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57971	07/19/23 08:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/19/23 18:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/20/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 17:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		5			57929	07/18/23 09:50	CH	EET MID

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

Lab Sample ID: 880-30794-7

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57971	07/19/23 08:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/19/23 18:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/20/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 17:32	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30794-7

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		20			57929	07/18/23 09:55	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-30794-8

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57971	07/19/23 08:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/19/23 19:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/20/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		5			57929	07/18/23 10:00	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-30794-9

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57971	07/19/23 08:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57991	07/19/23 19:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58002	07/20/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			58390	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 18:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57872	07/17/23 14:55	KS	EET MID
Soluble	Analysis	300.0		5			57929	07/18/23 10:05	CH	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

Job ID: 880-30794-1

Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Eurofins Midland

Method Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30794-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30794-1	S-1 (0-1')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-2	S-1 (1.5')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-3	S-1 (2')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-4	S-2 (0-1')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-5	S-2 (1.5')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-6	S-2 (2')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-7	S-3 (0-1')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-8	S-3 (1.5')	Solid	07/13/23 00:00	07/17/23 14:00
880-30794-9	S-3 (2')	Solid	07/13/23 00:00	07/17/23 14:00

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Chain of Custody

Work Order No: 30794

7/24/2023

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 500	Address:	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Tx 79706
Phone	432-813-6823	Email:	Todd_Wells@eogresources.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ perfund ☐
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables	EDD ☐ ADaPT ☐ Other

Project Name		Rattlesnake 28 Fed Com #709 (CTB)		Turn Around				ANALYSIS REQUEST												Preservative Codes							
Project Number		2087		☐ Routine ☒ Rush		Pres. Code														None NO DI Water H ₂ O							
Project Location		Lea County, New Mexico		Due Date		72 Hours														Cool Cool MeOH Me							
Sampler's Name		CRM																		HCL HC HNO ₃ HN							
PO #:																				H ₂ SO ₄ H ₂ NaOH Na							
SAMPLE RECEIPT		Temp Blank.		Yes No		Wet Ice.		Yes No														H ₃ PO ₄ HP					
Received Intact:		☒ Yes ☐ No		Thermometer ID				☒ Yes ☐ No														NaHSO ₄ NABIS					
Cooler Custody Seals.		Yes No ☒ N/A		Correction Factor				☒ Yes ☐ No														Na ₂ S ₂ O ₃ NaSO ₃					
Sample Custody Seals		Yes No ☒ N/A		Temperature Reading				☒ Yes ☐ No														Zn Acetate+NaOH Zn					
Total Containers				Corrected Temperature				☒ Yes ☐ No														NaOH+Ascorbic Acid SAPC					
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
S-1 (0-1')		7/13/2023				X				G		1		X X X													
S-1 (1 5')		7/13/2023				X				G		1		X X X													
S-1 (2')		7/13/2023				X				G		1		X X X													
S-2 (0-1')		7/13/2023				X				G		1		X X X													
S-2 (1 5')		7/13/2023				X				G		1		X X X													
S-2 (2')		7/13/2023				X				G		1		X X X													
S-3 (0-1')		7/13/2023				X				G		1		X X X													
S-3 (1 5')		7/13/2023				X				G		1		X X X													
S-3 (2')		7/13/2023				X				G		1		X X X													



Comments Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com and Devin Dominguez / Ddominguez@carmonaresources.com			
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Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<i>Arana</i>		7-17-23 1400		<i>LEA</i>			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-30794-1

SDG Number: Lea County, New Mexico

Login Number: 30794

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

- 1
- 2
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- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 7/24/2023 2:59:59 PM

JOB DESCRIPTION

Rattlesnake 28 Fed Com #709 (CTB)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-30793-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
7/24/2023 2:59:59 PM

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

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Laboratory Job ID: 880-30793-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

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

Definitions/Glossary

Client: Carmona Resources

Job ID: 880-30793-1

Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
SQL	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: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

Job ID: 880-30793-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30793-1

Receipt

The samples were received on 7/17/2023 2:00 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 -10.3°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-30793-1), H-2 (0-0.5') (880-30793-2), H-3 (0-0.5') (880-30793-3), H-4 (0-0.5') (880-30793-4) and H-5 (0-0.5') (880-30793-5).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57942 and analytical batch 880-58261 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-2 (0-0.5') (880-30793-2). 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: H-1 (0-0.5') (880-30793-1), H-3 (0-0.5') (880-30793-3) and H-4 (0-0.5') (880-30793-4). 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.

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: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30793-1

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/18/23 11:31	07/20/23 03:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/23 11:31	07/20/23 03:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/23 11:31	07/20/23 03:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/23 11:31	07/20/23 03:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/23 11:31	07/20/23 03:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/23 11:31	07/20/23 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/18/23 11:31	07/20/23 03:49	1
1,4-Difluorobenzene (Surr)	109		70 - 130	07/18/23 11:31	07/20/23 03:49	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			07/20/23 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.1		50.5		mg/Kg			07/24/23 15:27	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	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 13:03	1
Diesel Range Organics (Over C10-C28)	68.1		50.5		mg/Kg		07/18/23 11:39	07/22/23 13:03	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	07/18/23 11:39	07/22/23 13:03	1
o-Terphenyl	150	S1+	70 - 130	07/18/23 11:39	07/22/23 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	848		4.98		mg/Kg			07/18/23 10:40	1

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

Lab Sample ID: 880-30793-2

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/18/23 11:31	07/20/23 04:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/23 11:31	07/20/23 04:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/23 11:31	07/20/23 04:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/18/23 11:31	07/20/23 04:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/23 11:31	07/20/23 04:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/18/23 11:31	07/20/23 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/18/23 11:31	07/20/23 04:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/18/23 11:31	07/20/23 04:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30793-2

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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			07/20/23 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.8		50.3		mg/Kg			07/24/23 15:27	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	<50.3	U	50.3		mg/Kg		07/18/23 11:39	07/22/23 11:53	1
Diesel Range Organics (Over C10-C28)	61.8		50.3		mg/Kg		07/18/23 11:39	07/22/23 11:53	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		07/18/23 11:39	07/22/23 11:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				07/18/23 11:39	07/22/23 11:53	1
o-Terphenyl	139	S1+	70 - 130				07/18/23 11:39	07/22/23 11:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	770		4.98		mg/Kg			07/18/23 10:45	1

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

Lab Sample ID: 880-30793-3

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/18/23 11:31	07/20/23 04:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/23 11:31	07/20/23 04:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/23 11:31	07/20/23 04:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/18/23 11:31	07/20/23 04:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/23 11:31	07/20/23 04:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/18/23 11:31	07/20/23 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				07/18/23 11:31	07/20/23 04:30	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/18/23 11:31	07/20/23 04:30	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			07/20/23 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			07/24/23 15:27	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	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 13:25	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 13:25	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30793-3

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/18/23 11:39	07/22/23 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				07/18/23 11:39	07/22/23 13:25	1
o-Terphenyl	144	S1+	70 - 130				07/18/23 11:39	07/22/23 13:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	878		5.05		mg/Kg			07/18/23 10:50	1

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

Lab Sample ID: 880-30793-4

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/18/23 11:31	07/20/23 04:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/20/23 04:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/20/23 04:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/23 11:31	07/20/23 04:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/20/23 04:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/23 11:31	07/20/23 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/18/23 11:31	07/20/23 04:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130				07/18/23 11:31	07/20/23 04:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/20/23 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.2		49.9		mg/Kg			07/24/23 15:27	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		07/18/23 11:39	07/22/23 13:47	1
Diesel Range Organics (Over C10-C28)	63.2		49.9		mg/Kg		07/18/23 11:39	07/22/23 13:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/18/23 11:39	07/22/23 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				07/18/23 11:39	07/22/23 13:47	1
o-Terphenyl	159	S1+	70 - 130				07/18/23 11:39	07/22/23 13:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.4		5.04		mg/Kg			07/18/23 10:55	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30793-5

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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		07/18/23 11:31	07/20/23 05:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/20/23 05:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/20/23 05:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/23 11:31	07/20/23 05:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/20/23 05:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/23 11:31	07/20/23 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/18/23 11:31	07/20/23 05:12	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/18/23 11:31	07/20/23 05:12	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			07/20/23 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.7		49.6		mg/Kg			07/24/23 15:27	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	<49.6	U	49.6		mg/Kg		07/18/23 11:39	07/22/23 14:10	1
Diesel Range Organics (Over C10-C28)	60.7		49.6		mg/Kg		07/18/23 11:39	07/22/23 14:10	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/18/23 11:39	07/22/23 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	07/18/23 11:39	07/22/23 14:10	1
o-Terphenyl	127		70 - 130	07/18/23 11:39	07/22/23 14:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.3		4.99		mg/Kg			07/18/23 11:00	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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)
880-30791-A-1-E MS	Matrix Spike	103	100
880-30791-A-1-F MSD	Matrix Spike Duplicate	105	102
880-30793-1	H-1 (0-0.5')	100	109
880-30793-2	H-2 (0-0.5')	97	108
880-30793-3	H-3 (0-0.5')	96	107
880-30793-4	H-4 (0-0.5')	109	105
880-30793-5	H-5 (0-0.5')	97	110
LCS 880-57941/1-A	Lab Control Sample	102	105
LCSD 880-57941/2-A	Lab Control Sample Dup	105	100
MB 880-57941/5-A	Method Blank	78	95
MB 880-57993/5-A	Method Blank	84	96
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)
880-30793-1	H-1 (0-0.5')	133 S1+	150 S1+
880-30793-2	H-2 (0-0.5')	116	139 S1+
880-30793-2 MS	H-2 (0-0.5')	103	113
880-30793-2 MSD	H-2 (0-0.5')	107	115
880-30793-3	H-3 (0-0.5')	126	144 S1+
880-30793-4	H-4 (0-0.5')	141 S1+	159 S1+
880-30793-5	H-5 (0-0.5')	119	127
LCS 880-57942/2-A	Lab Control Sample	85	106
LCSD 880-57942/3-A	Lab Control Sample Dup	92	114
MB 880-57942/1-A	Method Blank	170 S1+	197 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57941/5-A

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57941

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/19/23 22:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/19/23 22:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/19/23 22:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/23 11:31	07/19/23 22:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 11:31	07/19/23 22:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/23 11:31	07/19/23 22:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	07/18/23 11:31	07/19/23 22:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/18/23 11:31	07/19/23 22:17	1

Lab Sample ID: LCS 880-57941/1-A

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09282		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1982		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09351		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-57941/2-A

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57941

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09337		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.1004		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.09466		mg/Kg		95	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1942		mg/Kg		97	70 - 130	2	35
o-Xylene	0.100	0.09648		mg/Kg		96	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-30791-A-1-E MS

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57941

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.08714		mg/Kg		88	70 - 130
Toluene	<0.00198	U	0.0994	0.08178		mg/Kg		82	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30791-A-1-E MS

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57941

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0994	0.07867		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1552		mg/Kg		78	70 - 130
o-Xylene	<0.00198	U	0.0994	0.08587		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-30791-A-1-F MSD

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57941

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.08228		mg/Kg		82	70 - 130	6	35
Toluene	<0.00198	U	0.0998	0.07839		mg/Kg		79	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.0998	0.07902		mg/Kg		79	70 - 130	0	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1570		mg/Kg		79	70 - 130	1	35
o-Xylene	<0.00198	U	0.0998	0.08751		mg/Kg		88	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-57993/5-A

Matrix: Solid

Analysis Batch: 57992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:25	07/19/23 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:25	07/19/23 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:25	07/19/23 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/19/23 08:25	07/19/23 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/19/23 08:25	07/19/23 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/19/23 08:25	07/19/23 11:34	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	07/19/23 08:25	07/19/23 11:34	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/19/23 08:25	07/19/23 11:34	1

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

Lab Sample ID: MB 880-57942/1-A

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/18/23 11:36	07/22/23 09:08	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-57942/1-A

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/18/23 11:36	07/22/23 09:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/23 11:36	07/22/23 09:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130				07/18/23 11:36	07/22/23 09:08	1
o-Terphenyl	197	S1+	70 - 130				07/18/23 11:36	07/22/23 09:08	1

Lab Sample ID: LCS 880-57942/2-A

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1114		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	977.6		mg/Kg		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	85		70 - 130				
o-Terphenyl	106		70 - 130				

Lab Sample ID: LCSD 880-57942/3-A

Matrix: Solid

Analysis Batch: 58261

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1000		mg/Kg		100	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1032		mg/Kg		103	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	114		70 - 130						

Lab Sample ID: 880-30793-2 MS

Matrix: Solid

Analysis Batch: 58261

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

Prep Type: Total/NA

Prep Batch: 57942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1000	864.5		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	61.8		1000	934.3		mg/Kg		87	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	113		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30793-2 MSD

Matrix: Solid

Analysis Batch: 58261

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

Prep Type: Total/NA

Prep Batch: 57942

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	<50.3	U	1000	1003		mg/Kg		100	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	61.8		1000	953.8		mg/Kg		89	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	115		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57863/1-A

Matrix: Solid

Analysis Batch: 57925

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			07/18/23 08:41	1

Lab Sample ID: LCS 880-57863/2-A

Matrix: Solid

Analysis Batch: 57925

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.0		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-57863/3-A

Matrix: Solid

Analysis Batch: 57925

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	257.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-30791-A-1-B MS

Matrix: Solid

Analysis Batch: 57925

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61.9		248	319.9		mg/Kg		104	90 - 110

Lab Sample ID: 880-30791-A-1-C MSD

Matrix: Solid

Analysis Batch: 57925

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.9		248	320.2		mg/Kg		104	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 57941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-30793-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-30793-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-30793-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-30793-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-57941/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57941/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57941/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30791-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-30791-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Total/NA	Solid	8021B	57941
880-30793-2	H-2 (0-0.5')	Total/NA	Solid	8021B	57941
880-30793-3	H-3 (0-0.5')	Total/NA	Solid	8021B	57941
880-30793-4	H-4 (0-0.5')	Total/NA	Solid	8021B	57941
880-30793-5	H-5 (0-0.5')	Total/NA	Solid	8021B	57941
MB 880-57941/5-A	Method Blank	Total/NA	Solid	8021B	57941
MB 880-57993/5-A	Method Blank	Total/NA	Solid	8021B	57993
LCS 880-57941/1-A	Lab Control Sample	Total/NA	Solid	8021B	57941
LCSD 880-57941/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57941
880-30791-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	57941
880-30791-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57941

Prep Batch: 57993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57993/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 58112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-30793-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-30793-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-30793-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-30793-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 57942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-30793-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-30793-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-30793-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-30793-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-57942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30793-2 MS	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-30793-2 MSD	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 58261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	57942
880-30793-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	57942
880-30793-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	57942
880-30793-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	57942
880-30793-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	57942
MB 880-57942/1-A	Method Blank	Total/NA	Solid	8015B NM	57942
LCS 880-57942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57942
LCSD 880-57942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57942
880-30793-2 MS	H-2 (0-0.5')	Total/NA	Solid	8015B NM	57942
880-30793-2 MSD	H-2 (0-0.5')	Total/NA	Solid	8015B NM	57942

Analysis Batch: 58389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-30793-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-30793-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-30793-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-30793-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-30793-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-30793-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-30793-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-30793-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-57863/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57863/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57863/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30791-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-30791-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 57925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30793-1	H-1 (0-0.5')	Soluble	Solid	300.0	57863
880-30793-2	H-2 (0-0.5')	Soluble	Solid	300.0	57863
880-30793-3	H-3 (0-0.5')	Soluble	Solid	300.0	57863
880-30793-4	H-4 (0-0.5')	Soluble	Solid	300.0	57863
880-30793-5	H-5 (0-0.5')	Soluble	Solid	300.0	57863
MB 880-57863/1-A	Method Blank	Soluble	Solid	300.0	57863
LCS 880-57863/2-A	Lab Control Sample	Soluble	Solid	300.0	57863
LCSD 880-57863/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57863
880-30791-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	57863
880-30791-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	57863

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-30793-1

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	57941	07/18/23 11:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/20/23 03:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58112	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58389	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 13:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57863	07/17/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			57925	07/18/23 10:40	CH	EET MID

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

Lab Sample ID: 880-30793-2

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57941	07/18/23 11:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/20/23 04:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58112	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58389	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 11:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57863	07/17/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			57925	07/18/23 10:45	CH	EET MID

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

Lab Sample ID: 880-30793-3

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57941	07/18/23 11:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/20/23 04:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58112	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58389	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 13:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	57863	07/17/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			57925	07/18/23 10:50	CH	EET MID

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

Lab Sample ID: 880-30793-4

Date Collected: 07/13/23 00:00

Matrix: Solid

Date Received: 07/17/23 14:00

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	57941	07/18/23 11:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/20/23 04:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58112	07/20/23 10:18	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/13/23 00:00
Date Received: 07/17/23 14:00

Lab Sample ID: 880-30793-4
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			58389	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 13:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57863	07/17/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			57925	07/18/23 10:55	CH	EET MID

Client Sample ID: H-5 (0-0.5')
Date Collected: 07/13/23 00:00
Date Received: 07/17/23 14:00

Lab Sample ID: 880-30793-5
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	57941	07/18/23 11:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57992	07/20/23 05:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58112	07/20/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			58389	07/24/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	57942	07/18/23 11:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58261	07/22/23 14:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57863	07/17/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			57925	07/18/23 11:00	CH	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

Job ID: 880-30793-1

Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Carmona Resources

Job ID: 880-30793-1

Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-30793-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30793-1	H-1 (0-0.5')	Solid	07/13/23 00:00	07/17/23 14:00
880-30793-2	H-2 (0-0.5')	Solid	07/13/23 00:00	07/17/23 14:00
880-30793-3	H-3 (0-0.5')	Solid	07/13/23 00:00	07/17/23 14:00
880-30793-4	H-4 (0-0.5')	Solid	07/13/23 00:00	07/17/23 14:00
880-30793-5	H-5 (0-0.5')	Solid	07/13/23 00:00	07/17/23 14:00

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- 14



Chain of Custody

Work Order No: 3093

7/24/2023

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 500	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland Tx 79706
Phone	432-813-6823	Email	Todd_Wells@eogresources.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ perfund ☐
State of Project.	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD	☐ ADaPT ☐ Other

Project Name		Rattlesnake 28 Fed Com #709 (CTB)		Turn Around				ANALYSIS REQUEST										Preservative Codes							
Project Number		2087		☐ Routine ☒ Rush		Pres. Code												None NO DI Water H ₂ O							
Project Location		Lea County, New Mexico		Due Date		72 Hours												Cool Cool MeOH Me							
Sampler's Name		CRM																HCL HC HNO ₃ HN							
PO #																		H ₂ SO ₄ H ₂ NaOH Na							
SAMPLE RECEIPT		Temp Blank		Yes ☒ No ☒		Wet Ice		Yes ☒ No ☒												H ₃ PO ₄ HP					
Received Intact		Yes ☒ No ☒		Thermometer ID		518												NaHSO ₄ NABIS							
Cooler Custody Seals		Yes ☒ No ☒		Correction Factor		-36												Na ₂ S ₂ O ₃ NaSO ₃							
Sample Custody Seals		Yes ☒ No ☒		Temperature Reading		-10												Zn Acetate+NaOH Zn							
Total Containers				Corrected Temperature		70.3												NaOH+Ascorbic Acid SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont												Sample Comments	
H-1 (0-0 5')		7/13/2023				X				G		1		X X X											
H-2 (0-0 5')		7/13/2023				X				G		1		X X X											
H-3 (0-0 5')		7/13/2023				X				G		1		X X X											
H-4 (0-0 5')		7/13/2023				X				G		1		X X X											
H-5 (0-0 5')		7/13/2023				X				G		1		X X X											



880-30793 Chain of Custody

Comments Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com and Devin Dominguez / Ddominguez@carmonaresources.com

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<i>[Signature]</i>		7-17-23 1:40		<i>[Signature]</i>			

Page 22 of 23

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-30793-1

SDG Number: Lea County, New Mexico

Login Number: 30793

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	



Environment Testing

- 1
- 2
- 3
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ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 9/1/2023 10:35:32 AM

JOB DESCRIPTION

Rattlesnake 28 Fed Com #709 (CTB)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-32741-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Laboratory Job ID: 880-32741-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	21
QC Sample Results	23
QC Association Summary	27
Lab Chronicle	32
Certification Summary	39
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	44

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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.
α	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
SQL	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: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Job ID: 880-32741-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32741-1

Receipt

The samples were received on 8/31/2023 8:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (3.5') (880-32741-1), CS-2 (3.5') (880-32741-2), CS-3 (3.5') (880-32741-3), CS-4 (3.5') (880-32741-4), CS-5 (3.5') (880-32741-5), CS-6 (3.5') (880-32741-6), CS-7 (3.5') (880-32741-7), CS-8 (3.5') (880-32741-8), SW-1 (3.5') (880-32741-9), SW-2 (3.5') (880-32741-10), SW-3 (3.5') (880-32741-11), SW-4 (3.5') (880-32741-12), SW-5 (3.5') (880-32741-13), SW-6 (3.5') (880-32741-14), SW-7 (3.5') (880-32741-15), SW-8 (3.5') (880-32741-16), SW-9 (3.5') (880-32741-17), SW-10 (3.5') (880-32741-18), SW-11 (3.5') (880-32741-19) and SW-12 (3.5') (880-32741-20).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-61672 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-61672/2) and (CCV 880-61672/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-4 (3.5') (880-32741-12), SW-5 (3.5') (880-32741-13), SW-6 (3.5') (880-32741-14) and SW-7 (3.5') (880-32741-15). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61614 and analytical batch 880-61588 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (3.5') (880-32741-1), CS-2 (3.5') (880-32741-2), CS-3 (3.5') (880-32741-3), CS-4 (3.5') (880-32741-4), CS-5 (3.5') (880-32741-5), CS-6 (3.5') (880-32741-6), CS-7 (3.5') (880-32741-7), CS-8 (3.5') (880-32741-8), SW-1 (3.5') (880-32741-9), SW-2 (3.5') (880-32741-10), SW-3 (3.5') (880-32741-11), SW-4 (3.5') (880-32741-12), SW-5 (3.5') (880-32741-13), SW-6 (3.5') (880-32741-14), SW-7 (3.5') (880-32741-15), SW-8 (3.5') (880-32741-16), SW-10 (3.5') (880-32741-18), SW-12 (3.5') (880-32741-20), (880-32741-A-1-B MS) and (880-32741-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61588/31), (CCV 880-61588/47) and (CCV 880-61588/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-61614 and analytical batch 880-61588 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (3.5')

Lab Sample ID: 880-32741-1

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 18:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/31/23 15:39	08/31/23 18:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/31/23 15:39	08/31/23 18:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/31/23 15:39	08/31/23 18:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/31/23 15:39	08/31/23 18:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/31/23 15:39	08/31/23 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/31/23 15:39	08/31/23 18:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/31/23 15:39	08/31/23 18:41	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/01/23 09:19	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	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 20:19	1
Diesel Range Organics (Over C10-C28)	<50.3	U F1	50.3		mg/Kg		08/31/23 10:03	08/31/23 20:19	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/31/23 10:03	08/31/23 20:19	1
o-Terphenyl	120		70 - 130	08/31/23 10:03	08/31/23 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.96		mg/Kg			08/31/23 17:24	1

Client Sample ID: CS-2 (3.5')

Lab Sample ID: 880-32741-2

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 19:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 19:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 19:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/31/23 15:39	08/31/23 19:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 19:01	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/31/23 15:39	08/31/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/31/23 15:39	08/31/23 19:01	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/31/23 15:39	08/31/23 19:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (3.5')

Lab Sample ID: 880-32741-2

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/01/23 09:19	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	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 21:24	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 21:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				08/31/23 10:03	08/31/23 21:24	1
o-Terphenyl	137	S1+	70 - 130				08/31/23 10:03	08/31/23 21:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.97		mg/Kg			08/31/23 17:42	1

Client Sample ID: CS-3 (3.5')

Lab Sample ID: 880-32741-3

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 19:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/23 15:39	08/31/23 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 19:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/23 15:39	08/31/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				08/31/23 15:39	08/31/23 19:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/31/23 15:39	08/31/23 19:22	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/01/23 09:19	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	<50.4	U	50.4		mg/Kg		08/31/23 10:03	08/31/23 21:46	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	08/31/23 21:46	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (3.5')

Lab Sample ID: 880-32741-3

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	08/31/23 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				08/31/23 10:03	08/31/23 21:46	1
o-Terphenyl	141	S1+	70 - 130				08/31/23 10:03	08/31/23 21:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.95		mg/Kg			08/31/23 17:49	1

Client Sample ID: CS-4 (3.5')

Lab Sample ID: 880-32741-4

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 19:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 19:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 19:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/31/23 15:39	08/31/23 19:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 19:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/31/23 15:39	08/31/23 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/31/23 15:39	08/31/23 19:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/31/23 15:39	08/31/23 19:43	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/01/23 09:19	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	<50.5	U	50.5		mg/Kg		08/31/23 10:03	08/31/23 22:08	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/31/23 10:03	08/31/23 22:08	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/31/23 10:03	08/31/23 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				08/31/23 10:03	08/31/23 22:08	1
o-Terphenyl	138	S1+	70 - 130				08/31/23 10:03	08/31/23 22:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		4.99		mg/Kg			08/31/23 17:55	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-5 (3.5')

Lab Sample ID: 880-32741-5

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 20:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 20:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 20:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/31/23 15:39	08/31/23 20:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 20:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/31/23 15:39	08/31/23 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	08/31/23 15:39	08/31/23 20:03	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/31/23 15:39	08/31/23 20:03	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			09/01/23 11:00	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			09/01/23 09:19	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		08/31/23 10:03	08/31/23 22:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/31/23 10:03	08/31/23 22:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/31/23 10:03	08/31/23 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	08/31/23 10:03	08/31/23 22:29	1
o-Terphenyl	128		70 - 130	08/31/23 10:03	08/31/23 22:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.4		5.02		mg/Kg			08/31/23 18:01	1

Client Sample ID: CS-6 (3.5')

Lab Sample ID: 880-32741-6

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 20:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	08/31/23 20:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	08/31/23 20:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/31/23 15:39	08/31/23 20:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	08/31/23 20:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/31/23 15:39	08/31/23 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/31/23 15:39	08/31/23 20:24	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/31/23 15:39	08/31/23 20:24	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-6 (3.5')

Lab Sample ID: 880-32741-6

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/01/23 09:19	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	<49.7	U	49.7		mg/Kg		08/31/23 10:03	08/31/23 22:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/31/23 10:03	08/31/23 22:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/31/23 10:03	08/31/23 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				08/31/23 10:03	08/31/23 22:51	1
o-Terphenyl	121		70 - 130				08/31/23 10:03	08/31/23 22:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.04		mg/Kg			08/31/23 18:19	1

Client Sample ID: CS-7 (3.5')

Lab Sample ID: 880-32741-7

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 20:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	08/31/23 20:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	08/31/23 20:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/31/23 15:39	08/31/23 20:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	08/31/23 20:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/31/23 15:39	08/31/23 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/31/23 15:39	08/31/23 20:45	1
1,4-Difluorobenzene (Surr)	111		70 - 130				08/31/23 15:39	08/31/23 20:45	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/01/23 09:19	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	<49.6	U	49.6		mg/Kg		08/31/23 10:03	08/31/23 23:13	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/31/23 10:03	08/31/23 23:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (3.5')

Lab Sample ID: 880-32741-7

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/31/23 10:03	08/31/23 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				08/31/23 10:03	08/31/23 23:13	1
o-Terphenyl	118		70 - 130				08/31/23 10:03	08/31/23 23:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		5.01		mg/Kg			08/31/23 18:26	1

Client Sample ID: CS-8 (3.5')

Lab Sample ID: 880-32741-8

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 21:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 21:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 21:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/31/23 15:39	08/31/23 21:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 21:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/31/23 15:39	08/31/23 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/31/23 15:39	08/31/23 21:05	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/31/23 15:39	08/31/23 21:05	1

Method: TAL SOP 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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/01/23 09:19	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	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 23:34	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 23:34	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/31/23 10:03	08/31/23 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				08/31/23 10:03	08/31/23 23:34	1
o-Terphenyl	128		70 - 130				08/31/23 10:03	08/31/23 23:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		5.01		mg/Kg			08/31/23 18:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (3.5')

Lab Sample ID: 880-32741-9

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 21:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 21:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 21:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/31/23 15:39	08/31/23 21:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 21:26	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/31/23 15:39	08/31/23 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/31/23 15:39	08/31/23 21:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/31/23 15:39	08/31/23 21:26	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/01/23 09:19	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	<50.4	U	50.4		mg/Kg		08/31/23 10:03	08/31/23 23:57	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	08/31/23 23:57	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	08/31/23 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	08/31/23 10:03	08/31/23 23:57	1
o-Terphenyl	132	S1+	70 - 130	08/31/23 10:03	08/31/23 23:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		5.00		mg/Kg			08/31/23 18:39	1

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 880-32741-10

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 21:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 21:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 21:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/31/23 15:39	08/31/23 21:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 21:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/31/23 15:39	08/31/23 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/31/23 15:39	08/31/23 21:47	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/31/23 15:39	08/31/23 21:47	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 880-32741-10

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			09/01/23 09:19	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	<50.2	U	50.2		mg/Kg		08/31/23 10:03	09/01/23 00:18	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/31/23 10:03	09/01/23 00:18	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/31/23 10:03	09/01/23 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				08/31/23 10:03	09/01/23 00:18	1
o-Terphenyl	134	S1+	70 - 130				08/31/23 10:03	09/01/23 00:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.98		mg/Kg			08/31/23 18:45	1

Client Sample ID: SW-3 (3.5')

Lab Sample ID: 880-32741-11

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 23:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 23:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 23:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/31/23 15:39	08/31/23 23:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/31/23 15:39	08/31/23 23:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/31/23 15:39	08/31/23 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/31/23 15:39	08/31/23 23:10	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/31/23 15:39	08/31/23 23:10	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			09/01/23 09:19	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	<50.1	U	50.1		mg/Kg		08/31/23 10:03	09/01/23 01:02	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/31/23 10:03	09/01/23 01:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (3.5')

Lab Sample ID: 880-32741-11

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/31/23 10:03	09/01/23 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				08/31/23 10:03	09/01/23 01:02	1
o-Terphenyl	125		70 - 130				08/31/23 10:03	09/01/23 01:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.97		mg/Kg			08/31/23 18:51	1

Client Sample ID: SW-4 (3.5')

Lab Sample ID: 880-32741-12

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 23:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 23:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 23:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/31/23 15:39	08/31/23 23:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 23:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/31/23 15:39	08/31/23 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53	S1-	70 - 130				08/31/23 15:39	08/31/23 23:30	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/31/23 15:39	08/31/23 23:30	1

Method: TAL SOP 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			09/01/23 11:00	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			09/01/23 09:19	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		08/31/23 10:03	09/01/23 01:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/31/23 10:03	09/01/23 01:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/31/23 10:03	09/01/23 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				08/31/23 10:03	09/01/23 01:24	1
o-Terphenyl	130		70 - 130				08/31/23 10:03	09/01/23 01:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.02		mg/Kg			08/31/23 19:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-5 (3.5')

Lab Sample ID: 880-32741-13

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	08/31/23 23:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 23:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 23:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/31/23 15:39	08/31/23 23:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	08/31/23 23:51	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/31/23 15:39	08/31/23 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	49	S1-	70 - 130	08/31/23 15:39	08/31/23 23:51	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/31/23 15:39	08/31/23 23:51	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			09/01/23 11:00	1

Method: SW846 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			09/01/23 09:19	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	<49.8	U	49.8		mg/Kg		08/31/23 10:03	09/01/23 01:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/31/23 10:03	09/01/23 01:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/31/23 10:03	09/01/23 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130	08/31/23 10:03	09/01/23 01:45	1
o-Terphenyl	144	S1+	70 - 130	08/31/23 10:03	09/01/23 01:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.7		5.05		mg/Kg			08/31/23 19:17	1

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-32741-14

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	09/01/23 00:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 00:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 00:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/31/23 15:39	09/01/23 00:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 00:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/31/23 15:39	09/01/23 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130	08/31/23 15:39	09/01/23 00:12	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/31/23 15:39	09/01/23 00:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-32741-14

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/01/23 09:19	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	<49.6	U	49.6		mg/Kg		08/31/23 10:03	09/01/23 02:07	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/31/23 10:03	09/01/23 02:07	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/31/23 10:03	09/01/23 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				08/31/23 10:03	09/01/23 02:07	1
o-Terphenyl	130		70 - 130				08/31/23 10:03	09/01/23 02:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.0		5.03		mg/Kg			08/31/23 19:36	1

Client Sample ID: SW-7 (3.5')

Lab Sample ID: 880-32741-15

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	09/01/23 00:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/31/23 15:39	09/01/23 00:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/31/23 15:39	09/01/23 00:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/31/23 15:39	09/01/23 00:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/31/23 15:39	09/01/23 00:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/31/23 15:39	09/01/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56	S1-	70 - 130				08/31/23 15:39	09/01/23 00:32	1
1,4-Difluorobenzene (Surr)	73		70 - 130				08/31/23 15:39	09/01/23 00:32	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/01/23 09:19	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	<50.4	U	50.4		mg/Kg		08/31/23 10:03	09/01/23 02:29	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	09/01/23 02:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-7 (3.5')

Lab Sample ID: 880-32741-15

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	09/01/23 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				08/31/23 10:03	09/01/23 02:29	1
o-Terphenyl	126		70 - 130				08/31/23 10:03	09/01/23 02:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.99		mg/Kg			08/31/23 19:42	1

Client Sample ID: SW-8 (3.5')

Lab Sample ID: 880-32741-16

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	09/01/23 00:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 00:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 00:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/23 15:39	09/01/23 00:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 00:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/23 15:39	09/01/23 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/31/23 15:39	09/01/23 00:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/31/23 15:39	09/01/23 00:53	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/01/23 09:19	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	<50.5	U	50.5		mg/Kg		08/31/23 10:03	09/01/23 02:51	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/31/23 10:03	09/01/23 02:51	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/31/23 10:03	09/01/23 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				08/31/23 10:03	09/01/23 02:51	1
o-Terphenyl	128		70 - 130				08/31/23 10:03	09/01/23 02:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		4.98		mg/Kg			08/31/23 19:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-9 (3.5')

Lab Sample ID: 880-32741-17

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	09/01/23 01:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	09/01/23 01:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	09/01/23 01:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/31/23 15:39	09/01/23 01:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/31/23 15:39	09/01/23 01:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/31/23 15:39	09/01/23 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/31/23 15:39	09/01/23 01:14	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/31/23 15:39	09/01/23 01:14	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/01/23 09:19	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	<49.7	U	49.7		mg/Kg		08/31/23 10:03	09/01/23 03:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/31/23 10:03	09/01/23 03:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/31/23 10:03	09/01/23 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/31/23 10:03	09/01/23 03:13	1
o-Terphenyl	118		70 - 130	08/31/23 10:03	09/01/23 03:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.96		mg/Kg			08/31/23 19:55	1

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-32741-18

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	09/01/23 01:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	09/01/23 01:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	09/01/23 01:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/31/23 15:39	09/01/23 01:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	09/01/23 01:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/31/23 15:39	09/01/23 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/31/23 15:39	09/01/23 01:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/31/23 15:39	09/01/23 01:34	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-32741-18

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/01/23 09:19	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	<50.4	U	50.4		mg/Kg		08/31/23 10:03	09/01/23 03:35	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	09/01/23 03:35	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/31/23 10:03	09/01/23 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				08/31/23 10:03	09/01/23 03:35	1
o-Terphenyl	128		70 - 130				08/31/23 10:03	09/01/23 03:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.98		mg/Kg			08/31/23 20:02	1

Client Sample ID: SW-11 (3.5')

Lab Sample ID: 880-32741-19

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	09/01/23 01:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	09/01/23 01:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	09/01/23 01:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/31/23 15:39	09/01/23 01:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/31/23 15:39	09/01/23 01:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/31/23 15:39	09/01/23 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/31/23 15:39	09/01/23 01:55	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/31/23 15:39	09/01/23 01:55	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			09/01/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/01/23 09:19	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	<49.7	U	49.7		mg/Kg		08/31/23 10:03	09/01/23 03:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/31/23 10:03	09/01/23 03:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-11 (3.5')

Lab Sample ID: 880-32741-19

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/31/23 10:03	09/01/23 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/31/23 10:03	09/01/23 03:57	1
o-Terphenyl	118		70 - 130				08/31/23 10:03	09/01/23 03:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.02		mg/Kg			08/31/23 20:08	1

Client Sample ID: SW-12 (3.5')

Lab Sample ID: 880-32741-20

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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		08/31/23 15:39	09/01/23 02:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 02:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 02:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/31/23 15:39	09/01/23 02:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	09/01/23 02:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/31/23 15:39	09/01/23 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/31/23 15:39	09/01/23 02:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/31/23 15:39	09/01/23 02:16	1

Method: TAL SOP 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			09/01/23 11:00	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			09/01/23 09:19	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		08/31/23 10:03	09/01/23 04:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/31/23 10:03	09/01/23 04:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/31/23 10:03	09/01/23 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				08/31/23 10:03	09/01/23 04:19	1
o-Terphenyl	131	S1+	70 - 130				08/31/23 10:03	09/01/23 04:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.05		mg/Kg			08/31/23 20:14	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-32741-1	CS-1 (3.5')	87	102
880-32741-1 MS	CS-1 (3.5')	89	102
880-32741-1 MSD	CS-1 (3.5')	105	97
880-32741-2	CS-2 (3.5')	101	113
880-32741-3	CS-3 (3.5')	81	92
880-32741-4	CS-4 (3.5')	95	103
880-32741-5	CS-5 (3.5')	95	109
880-32741-6	CS-6 (3.5')	96	108
880-32741-7	CS-7 (3.5')	99	111
880-32741-8	CS-8 (3.5')	96	109
880-32741-9	SW-1 (3.5')	94	109
880-32741-10	SW-2 (3.5')	98	111
880-32741-11	SW-3 (3.5')	93	100
880-32741-12	SW-4 (3.5')	53 S1-	97
880-32741-13	SW-5 (3.5')	49 S1-	113
880-32741-14	SW-6 (3.5')	58 S1-	111
880-32741-15	SW-7 (3.5')	56 S1-	73
880-32741-16	SW-8 (3.5')	96	106
880-32741-17	SW-9 (3.5')	102	107
880-32741-18	SW-10 (3.5')	105	108
880-32741-19	SW-11 (3.5')	105	109
880-32741-20	SW-12 (3.5')	104	103
LCS 880-61675/1-A	Lab Control Sample	100	104
LCSD 880-61675/2-A	Lab Control Sample Dup	91	102
MB 880-61675/5-A	Method Blank	83	93

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-32741-1	CS-1 (3.5')	133 S1+	120
880-32741-1 MS	CS-1 (3.5')	141 S1+	113
880-32741-1 MSD	CS-1 (3.5')	140 S1+	114
880-32741-2	CS-2 (3.5')	149 S1+	137 S1+
880-32741-3	CS-3 (3.5')	157 S1+	141 S1+
880-32741-4	CS-4 (3.5')	152 S1+	138 S1+
880-32741-5	CS-5 (3.5')	139 S1+	128
880-32741-6	CS-6 (3.5')	134 S1+	121
880-32741-7	CS-7 (3.5')	131 S1+	118
880-32741-8	CS-8 (3.5')	141 S1+	128
880-32741-9	SW-1 (3.5')	147 S1+	132 S1+
880-32741-10	SW-2 (3.5')	152 S1+	134 S1+
880-32741-11	SW-3 (3.5')	139 S1+	125
880-32741-12	SW-4 (3.5')	145 S1+	130

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-32741-1

Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

SDG: Lea County, New Mexico

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)
880-32741-13	SW-5 (3.5')	160 S1+	144 S1+
880-32741-14	SW-6 (3.5')	144 S1+	130
880-32741-15	SW-7 (3.5')	143 S1+	126
880-32741-16	SW-8 (3.5')	142 S1+	128
880-32741-17	SW-9 (3.5')	130	118
880-32741-18	SW-10 (3.5')	141 S1+	128
880-32741-19	SW-11 (3.5')	130	118
880-32741-20	SW-12 (3.5')	143 S1+	131 S1+
LCS 880-61614/2-A	Lab Control Sample	113	126
LCSD 880-61614/3-A	Lab Control Sample Dup	119	121
MB 880-61614/1-A	Method Blank	146 S1+	138 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61675/5-A

Matrix: Solid

Analysis Batch: 61672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 18:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/23 15:39	08/31/23 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/23 15:39	08/31/23 18:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/23 15:39	08/31/23 18:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	08/31/23 15:39	08/31/23 18:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/31/23 15:39	08/31/23 18:19	1

Lab Sample ID: LCS 880-61675/1-A

Matrix: Solid

Analysis Batch: 61672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1083		mg/Kg		108	70 - 130
Toluene	0.100	0.1062		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1057		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2153		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-61675/2-A

Matrix: Solid

Analysis Batch: 61672

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	3	35
Toluene	0.100	0.09737		mg/Kg		97	70 - 130	9	35
Ethylbenzene	0.100	0.09495		mg/Kg		95	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	12	35
o-Xylene	0.100	0.08940		mg/Kg		89	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-32741-1 MS

Matrix: Solid

Analysis Batch: 61672

Client Sample ID: CS-1 (3.5')

Prep Type: Total/NA

Prep Batch: 61675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08367		mg/Kg		83	70 - 130
Toluene	<0.00199	U	0.0996	0.08249		mg/Kg		83	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-32741-1 MS

Matrix: Solid

Analysis Batch: 61672

Client Sample ID: CS-1 (3.5')

Prep Type: Total/NA

Prep Batch: 61675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.07395		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1474		mg/Kg		74	70 - 130
o-Xylene	<0.00199	U	0.0996	0.06969		mg/Kg		70	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	89		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-32741-1 MSD

Matrix: Solid

Analysis Batch: 61672

Client Sample ID: CS-1 (3.5')

Prep Type: Total/NA

Prep Batch: 61675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08751		mg/Kg		86	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.09049		mg/Kg		90	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.100	0.08179		mg/Kg		82	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1661		mg/Kg		83	70 - 130	12	35
o-Xylene	<0.00199	U	0.100	0.07867		mg/Kg		78	70 - 130	12	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-61614/1-A

Matrix: Solid

Analysis Batch: 61588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61614

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		08/31/23 10:03	08/31/23 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/31/23 10:03	08/31/23 19:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/31/23 10:03	08/31/23 19:13	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				08/31/23 10:03	08/31/23 19:13	1
o-Terphenyl	138	S1+	70 - 130				08/31/23 10:03	08/31/23 19:13	1

Lab Sample ID: LCS 880-61614/2-A

Matrix: Solid

Analysis Batch: 61588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	989.9		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	983.8		mg/Kg		98	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-61614/2-A
Matrix: Solid
Analysis Batch: 61588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61614

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-61614/3-A
Matrix: Solid
Analysis Batch: 61588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61614

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1010		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	939.5		mg/Kg		94	70 - 130	5	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	119		70 - 130								
o-Terphenyl	121		70 - 130								

Lab Sample ID: 880-32741-1 MS
Matrix: Solid
Analysis Batch: 61588

Client Sample ID: CS-1 (3.5')
Prep Type: Total/NA
Prep Batch: 61614

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	927.7		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U F1	998	1333	F1	mg/Kg		131	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	141	S1+	70 - 130								
o-Terphenyl	113		70 - 130								

Lab Sample ID: 880-32741-1 MSD
Matrix: Solid
Analysis Batch: 61588

Client Sample ID: CS-1 (3.5')
Prep Type: Total/NA
Prep Batch: 61614

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	<50.3	U	998	934.0		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.3	U F1	998	1356	F1	mg/Kg		133	70 - 130	2	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	140	S1+	70 - 130								
o-Terphenyl	114		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-61616/1-A
Matrix: Solid
Analysis Batch: 61678

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			08/31/23 17:05	1

Lab Sample ID: LCS 880-61616/2-A
Matrix: Solid
Analysis Batch: 61678

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-61616/3-A
Matrix: Solid
Analysis Batch: 61678

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	254.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-32741-1 MS
Matrix: Solid
Analysis Batch: 61678

Client Sample ID: CS-1 (3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	111		248	348.6		mg/Kg		96	90 - 110

Lab Sample ID: 880-32741-1 MSD
Matrix: Solid
Analysis Batch: 61678

Client Sample ID: CS-1 (3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	111		248	348.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-32741-11 MS
Matrix: Solid
Analysis Batch: 61678

Client Sample ID: SW-3 (3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	121		249	371.9		mg/Kg		101	90 - 110

Lab Sample ID: 880-32741-11 MSD
Matrix: Solid
Analysis Batch: 61678

Client Sample ID: SW-3 (3.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	121		249	372.1		mg/Kg		101	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 61672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Total/NA	Solid	8021B	61675
880-32741-2	CS-2 (3.5')	Total/NA	Solid	8021B	61675
880-32741-3	CS-3 (3.5')	Total/NA	Solid	8021B	61675
880-32741-4	CS-4 (3.5')	Total/NA	Solid	8021B	61675
880-32741-5	CS-5 (3.5')	Total/NA	Solid	8021B	61675
880-32741-6	CS-6 (3.5')	Total/NA	Solid	8021B	61675
880-32741-7	CS-7 (3.5')	Total/NA	Solid	8021B	61675
880-32741-8	CS-8 (3.5')	Total/NA	Solid	8021B	61675
880-32741-9	SW-1 (3.5')	Total/NA	Solid	8021B	61675
880-32741-10	SW-2 (3.5')	Total/NA	Solid	8021B	61675
880-32741-11	SW-3 (3.5')	Total/NA	Solid	8021B	61675
880-32741-12	SW-4 (3.5')	Total/NA	Solid	8021B	61675
880-32741-13	SW-5 (3.5')	Total/NA	Solid	8021B	61675
880-32741-14	SW-6 (3.5')	Total/NA	Solid	8021B	61675
880-32741-15	SW-7 (3.5')	Total/NA	Solid	8021B	61675
880-32741-16	SW-8 (3.5')	Total/NA	Solid	8021B	61675
880-32741-17	SW-9 (3.5')	Total/NA	Solid	8021B	61675
880-32741-18	SW-10 (3.5')	Total/NA	Solid	8021B	61675
880-32741-19	SW-11 (3.5')	Total/NA	Solid	8021B	61675
880-32741-20	SW-12 (3.5')	Total/NA	Solid	8021B	61675
MB 880-61675/5-A	Method Blank	Total/NA	Solid	8021B	61675
LCS 880-61675/1-A	Lab Control Sample	Total/NA	Solid	8021B	61675
LCSD 880-61675/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61675
880-32741-1 MS	CS-1 (3.5')	Total/NA	Solid	8021B	61675
880-32741-1 MSD	CS-1 (3.5')	Total/NA	Solid	8021B	61675

Prep Batch: 61675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Total/NA	Solid	5035	
880-32741-2	CS-2 (3.5')	Total/NA	Solid	5035	
880-32741-3	CS-3 (3.5')	Total/NA	Solid	5035	
880-32741-4	CS-4 (3.5')	Total/NA	Solid	5035	
880-32741-5	CS-5 (3.5')	Total/NA	Solid	5035	
880-32741-6	CS-6 (3.5')	Total/NA	Solid	5035	
880-32741-7	CS-7 (3.5')	Total/NA	Solid	5035	
880-32741-8	CS-8 (3.5')	Total/NA	Solid	5035	
880-32741-9	SW-1 (3.5')	Total/NA	Solid	5035	
880-32741-10	SW-2 (3.5')	Total/NA	Solid	5035	
880-32741-11	SW-3 (3.5')	Total/NA	Solid	5035	
880-32741-12	SW-4 (3.5')	Total/NA	Solid	5035	
880-32741-13	SW-5 (3.5')	Total/NA	Solid	5035	
880-32741-14	SW-6 (3.5')	Total/NA	Solid	5035	
880-32741-15	SW-7 (3.5')	Total/NA	Solid	5035	
880-32741-16	SW-8 (3.5')	Total/NA	Solid	5035	
880-32741-17	SW-9 (3.5')	Total/NA	Solid	5035	
880-32741-18	SW-10 (3.5')	Total/NA	Solid	5035	
880-32741-19	SW-11 (3.5')	Total/NA	Solid	5035	
880-32741-20	SW-12 (3.5')	Total/NA	Solid	5035	
MB 880-61675/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61675/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61675/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 61675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1 MS	CS-1 (3.5')	Total/NA	Solid	5035	
880-32741-1 MSD	CS-1 (3.5')	Total/NA	Solid	5035	

Analysis Batch: 61743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-2	CS-2 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-3	CS-3 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-4	CS-4 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-5	CS-5 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-6	CS-6 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-7	CS-7 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-8	CS-8 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-9	SW-1 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-10	SW-2 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-11	SW-3 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-12	SW-4 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-13	SW-5 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-14	SW-6 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-15	SW-7 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-16	SW-8 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-17	SW-9 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-18	SW-10 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-19	SW-11 (3.5')	Total/NA	Solid	Total BTEX	
880-32741-20	SW-12 (3.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 61588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-2	CS-2 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-3	CS-3 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-4	CS-4 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-5	CS-5 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-6	CS-6 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-7	CS-7 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-8	CS-8 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-9	SW-1 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-10	SW-2 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-11	SW-3 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-12	SW-4 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-13	SW-5 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-14	SW-6 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-15	SW-7 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-16	SW-8 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-17	SW-9 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-18	SW-10 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-19	SW-11 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-20	SW-12 (3.5')	Total/NA	Solid	8015B NM	61614
MB 880-61614/1-A	Method Blank	Total/NA	Solid	8015B NM	61614

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 61588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-61614/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61614
LCSD 880-61614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61614
880-32741-1 MS	CS-1 (3.5')	Total/NA	Solid	8015B NM	61614
880-32741-1 MSD	CS-1 (3.5')	Total/NA	Solid	8015B NM	61614

Prep Batch: 61614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-2	CS-2 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-3	CS-3 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-4	CS-4 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-5	CS-5 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-6	CS-6 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-7	CS-7 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-8	CS-8 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-9	SW-1 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-10	SW-2 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-11	SW-3 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-12	SW-4 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-13	SW-5 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-14	SW-6 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-15	SW-7 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-16	SW-8 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-17	SW-9 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-18	SW-10 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-19	SW-11 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-20	SW-12 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-61614/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61614/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32741-1 MS	CS-1 (3.5')	Total/NA	Solid	8015NM Prep	
880-32741-1 MSD	CS-1 (3.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Total/NA	Solid	8015 NM	
880-32741-2	CS-2 (3.5')	Total/NA	Solid	8015 NM	
880-32741-3	CS-3 (3.5')	Total/NA	Solid	8015 NM	
880-32741-4	CS-4 (3.5')	Total/NA	Solid	8015 NM	
880-32741-5	CS-5 (3.5')	Total/NA	Solid	8015 NM	
880-32741-6	CS-6 (3.5')	Total/NA	Solid	8015 NM	
880-32741-7	CS-7 (3.5')	Total/NA	Solid	8015 NM	
880-32741-8	CS-8 (3.5')	Total/NA	Solid	8015 NM	
880-32741-9	SW-1 (3.5')	Total/NA	Solid	8015 NM	
880-32741-10	SW-2 (3.5')	Total/NA	Solid	8015 NM	
880-32741-11	SW-3 (3.5')	Total/NA	Solid	8015 NM	
880-32741-12	SW-4 (3.5')	Total/NA	Solid	8015 NM	
880-32741-13	SW-5 (3.5')	Total/NA	Solid	8015 NM	
880-32741-14	SW-6 (3.5')	Total/NA	Solid	8015 NM	
880-32741-15	SW-7 (3.5')	Total/NA	Solid	8015 NM	
880-32741-16	SW-8 (3.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 61748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-17	SW-9 (3.5')	Total/NA	Solid	8015 NM	
880-32741-18	SW-10 (3.5')	Total/NA	Solid	8015 NM	
880-32741-19	SW-11 (3.5')	Total/NA	Solid	8015 NM	
880-32741-20	SW-12 (3.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 61616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Soluble	Solid	DI Leach	
880-32741-2	CS-2 (3.5')	Soluble	Solid	DI Leach	
880-32741-3	CS-3 (3.5')	Soluble	Solid	DI Leach	
880-32741-4	CS-4 (3.5')	Soluble	Solid	DI Leach	
880-32741-5	CS-5 (3.5')	Soluble	Solid	DI Leach	
880-32741-6	CS-6 (3.5')	Soluble	Solid	DI Leach	
880-32741-7	CS-7 (3.5')	Soluble	Solid	DI Leach	
880-32741-8	CS-8 (3.5')	Soluble	Solid	DI Leach	
880-32741-9	SW-1 (3.5')	Soluble	Solid	DI Leach	
880-32741-10	SW-2 (3.5')	Soluble	Solid	DI Leach	
880-32741-11	SW-3 (3.5')	Soluble	Solid	DI Leach	
880-32741-12	SW-4 (3.5')	Soluble	Solid	DI Leach	
880-32741-13	SW-5 (3.5')	Soluble	Solid	DI Leach	
880-32741-14	SW-6 (3.5')	Soluble	Solid	DI Leach	
880-32741-15	SW-7 (3.5')	Soluble	Solid	DI Leach	
880-32741-16	SW-8 (3.5')	Soluble	Solid	DI Leach	
880-32741-17	SW-9 (3.5')	Soluble	Solid	DI Leach	
880-32741-18	SW-10 (3.5')	Soluble	Solid	DI Leach	
880-32741-19	SW-11 (3.5')	Soluble	Solid	DI Leach	
880-32741-20	SW-12 (3.5')	Soluble	Solid	DI Leach	
MB 880-61616/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61616/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61616/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32741-1 MS	CS-1 (3.5')	Soluble	Solid	DI Leach	
880-32741-1 MSD	CS-1 (3.5')	Soluble	Solid	DI Leach	
880-32741-11 MS	SW-3 (3.5')	Soluble	Solid	DI Leach	
880-32741-11 MSD	SW-3 (3.5')	Soluble	Solid	DI Leach	

Analysis Batch: 61678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-1	CS-1 (3.5')	Soluble	Solid	300.0	61616
880-32741-2	CS-2 (3.5')	Soluble	Solid	300.0	61616
880-32741-3	CS-3 (3.5')	Soluble	Solid	300.0	61616
880-32741-4	CS-4 (3.5')	Soluble	Solid	300.0	61616
880-32741-5	CS-5 (3.5')	Soluble	Solid	300.0	61616
880-32741-6	CS-6 (3.5')	Soluble	Solid	300.0	61616
880-32741-7	CS-7 (3.5')	Soluble	Solid	300.0	61616
880-32741-8	CS-8 (3.5')	Soluble	Solid	300.0	61616
880-32741-9	SW-1 (3.5')	Soluble	Solid	300.0	61616
880-32741-10	SW-2 (3.5')	Soluble	Solid	300.0	61616
880-32741-11	SW-3 (3.5')	Soluble	Solid	300.0	61616
880-32741-12	SW-4 (3.5')	Soluble	Solid	300.0	61616

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-32741-1

Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 61678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32741-13	SW-5 (3.5')	Soluble	Solid	300.0	61616
880-32741-14	SW-6 (3.5')	Soluble	Solid	300.0	61616
880-32741-15	SW-7 (3.5')	Soluble	Solid	300.0	61616
880-32741-16	SW-8 (3.5')	Soluble	Solid	300.0	61616
880-32741-17	SW-9 (3.5')	Soluble	Solid	300.0	61616
880-32741-18	SW-10 (3.5')	Soluble	Solid	300.0	61616
880-32741-19	SW-11 (3.5')	Soluble	Solid	300.0	61616
880-32741-20	SW-12 (3.5')	Soluble	Solid	300.0	61616
MB 880-61616/1-A	Method Blank	Soluble	Solid	300.0	61616
LCS 880-61616/2-A	Lab Control Sample	Soluble	Solid	300.0	61616
LCSD 880-61616/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61616
880-32741-1 MS	CS-1 (3.5')	Soluble	Solid	300.0	61616
880-32741-1 MSD	CS-1 (3.5')	Soluble	Solid	300.0	61616
880-32741-11 MS	SW-3 (3.5')	Soluble	Solid	300.0	61616
880-32741-11 MSD	SW-3 (3.5')	Soluble	Solid	300.0	61616

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (3.5')

Lab Sample ID: 880-32741-1

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 18:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 20:19	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 17:24	CH	EET MID

Client Sample ID: CS-2 (3.5')

Lab Sample ID: 880-32741-2

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 19:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 21:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 17:42	CH	EET MID

Client Sample ID: CS-3 (3.5')

Lab Sample ID: 880-32741-3

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 19:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 21:46	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 17:49	CH	EET MID

Client Sample ID: CS-4 (3.5')

Lab Sample ID: 880-32741-4

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 19:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-4 (3.5')

Lab Sample ID: 880-32741-4

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 22:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 17:55	CH	EET MID

Client Sample ID: CS-5 (3.5')

Lab Sample ID: 880-32741-5

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 20:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 22:29	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 18:01	CH	EET MID

Client Sample ID: CS-6 (3.5')

Lab Sample ID: 880-32741-6

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 20:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 22:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 18:19	CH	EET MID

Client Sample ID: CS-7 (3.5')

Lab Sample ID: 880-32741-7

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 20:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 23:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (3.5')

Lab Sample ID: 880-32741-7

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 18:26	CH	EET MID

Client Sample ID: CS-8 (3.5')

Lab Sample ID: 880-32741-8

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 21:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 23:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 18:32	CH	EET MID

Client Sample ID: SW-1 (3.5')

Lab Sample ID: 880-32741-9

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 21:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	08/31/23 23:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 18:39	CH	EET MID

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 880-32741-10

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 21:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 00:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 18:45	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (3.5')

Lab Sample ID: 880-32741-11

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 23:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 01:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 18:51	CH	EET MID

Client Sample ID: SW-4 (3.5')

Lab Sample ID: 880-32741-12

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 23:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 01:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 19:10	CH	EET MID

Client Sample ID: SW-5 (3.5')

Lab Sample ID: 880-32741-13

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	08/31/23 23:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 01:45	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 19:17	CH	EET MID

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-32741-14

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	09/01/23 00:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-6 (3.5')

Lab Sample ID: 880-32741-14

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 02:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 19:36	CH	EET MID

Client Sample ID: SW-7 (3.5')

Lab Sample ID: 880-32741-15

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	09/01/23 00:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 02:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 19:42	CH	EET MID

Client Sample ID: SW-8 (3.5')

Lab Sample ID: 880-32741-16

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	09/01/23 00:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 02:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 19:49	CH	EET MID

Client Sample ID: SW-9 (3.5')

Lab Sample ID: 880-32741-17

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	09/01/23 01:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 03:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Client Sample ID: SW-9 (3.5')

Lab Sample ID: 880-32741-17

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 19:55	CH	EET MID

Client Sample ID: SW-10 (3.5')

Lab Sample ID: 880-32741-18

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	09/01/23 01:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 03:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 20:02	CH	EET MID

Client Sample ID: SW-11 (3.5')

Lab Sample ID: 880-32741-19

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	09/01/23 01:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 03:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 20:08	CH	EET MID

Client Sample ID: SW-12 (3.5')

Lab Sample ID: 880-32741-20

Date Collected: 08/30/23 00:00

Matrix: Solid

Date Received: 08/31/23 08:24

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	61675	08/31/23 15:39	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61672	09/01/23 02:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61743	09/01/23 11:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61748	09/01/23 09:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	61614	08/31/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61588	09/01/23 04:19	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	61616	08/31/23 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			61678	08/31/23 20:14	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Rattlesnake 28 Fed Com #709 (CTB)

Job ID: 880-32741-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32741-1	CS-1 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-2	CS-2 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-3	CS-3 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-4	CS-4 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-5	CS-5 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-6	CS-6 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-7	CS-7 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-8	CS-8 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-9	SW-1 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-10	SW-2 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-11	SW-3 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-12	SW-4 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-13	SW-5 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-14	SW-6 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-15	SW-7 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-16	SW-8 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-17	SW-9 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-18	SW-10 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-19	SW-11 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24
880-32741-20	SW-12 (3.5')	Solid	08/30/23 00:00	08/31/23 08:24

Chain of Custody



880-32741 Chain of Custody

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Todd Wells
Company Name	Carmona Resources	Company Name	EOG Resources
Address	310 W Wall St Ste 500	Address	5509 Champions Dr
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Tx 79706
Phone	432-813-6823	Email	Todd.Wells@eogresources.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD	☐ ADaPT ☐ Other

Project Name		Rattlesnake 28 Fed Com #709 (CTB)		Turn Around				ANALYSIS REQUEST												Preservative Codes							
Project Number		2087		☐ Routine ☒ Rush		Pres. Code														None NO DI Water: H ₂ O							
Project Location		Lea County, New Mexico		Due Date		24 HR														Cool Cool MeOH Me							
Sampler's Name		JM																		HCL HC HNO ₃ HN							
PO #																				H ₂ SO ₄ H ₂ NaOH Na							
SAMPLE RECEIPT		Temp Blank		Yes No		Wet Ice		Yes No														H ₃ PO ₄ HP					
Received Intact:		☒ Yes ☐ No		Thermometer ID																		NaHSO ₄ NABIS					
Cooler Custody Seals		Yes No N/A		Correction Factor																		Na ₂ S ₂ O ₃ NaSO ₃					
Sample Custody Seals		Yes No N/A		Temperature Reading																		Zn Acetate+NaOH Zn					
Total Containers				Corrected Temperature																		NaOH+Ascorbic Acid SAPC					
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
CS-1 (3 5')		8/30/2023				X				Comp		1		X X X													
CS-2 (3 5')		8/30/2023				X				Comp		1		X X X													
CS-3 (3.5')		8/30/2023				X				Comp		1		X X X													
CS-4 (3 5')		8/30/2023				X				Comp		1		X X X													
CS-5 (3.5')		8/30/2023				X				Comp		1		X X X													
CS-6 (3 5')		8/30/2023				X				Comp		1		X X X													
CS-7 (3 5')		8/30/2023				X				Comp		1		X X X													
CS-8 (3 5')		8/30/2023				X				Comp		1		X X X													
SW-1 (3 5')		8/30/2023				X				Comp		1		X X X													
SW-2 (3 5')		8/30/2023				X				Comp		1		X X X													

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com and Devin Dominguez / Ddominguez@carmonaresources.com	
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Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	8/31/23 824		

Page 2 of 2

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-32741-1

SDG Number: Lea County, New Mexico

Login Number: 32741

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 284366

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 284366
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/23/2024