



SITE INFORMATION

Closure Report
Cypher 36 State Com 1 (07.03.2025)
Incident ID: NAPP2518476618
Eddy County, New Mexico
Unit A, Sec 36, T25S, R25E
32.09164°, -104.34296 °

Produced Water Release
Point of Release: Lightning Struck the Facility Resulting in a Tank Fire
Release Date: 07.03.2025
Volume Released: 42 Barrels of Produced Water
Volume Recovered: 42 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Cimarex Energy Co. of Colorado
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August 28, 2025

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

Re: Closure Report
Cypher 36 State Com 1 (07.03.2025)
Incident ID: nAPP2518476618
Cimarex Energy Co. of Colorado
Site Location: Unit A, S36, T25S, R25E
(Lat 32.09164°, Long -104.34296°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources LLC has prepared this letter to document site assessment and remediation activities for the Cypher 36 State Com 1 release. The site is located at 32.09164°, -104.34296° within Unit A, S36, T25S, R25E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 3, 2025, due to a lightning strike at the facility resulting in a fire. It resulted in approximately forty-two (42) barrels of produced water to be released with approximately forty-two (42) barrels of produced water recovered. The spill boundaries are shown in Figure 3. The Notification of Release and Initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest water source is approximately 2.05 miles North of the site in S19, T25S, R26E and was last gauged in 2025. The well has a reported depth to groundwater of 69.02 feet below the ground surface (ft bgs). A copy of the 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 and remediating the site.

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



4.0 Site Assessment Activities

Initial Assessment

On July 24, 2025, Carmona Resources personnel performed site assessment activities with the use of an air rotary rig to evaluate soil impacts stemming from the release. Prior to arriving onsite, all tanks, equipment and piping have been removed from the site. A total of four (4) borehole samples (BH-1 through BH-4) and four (4) horizontal samples (H-1 through H-4) were installed to total depths ranging from surface to 20.0 ft bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Labs in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and Chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved in all borehole samples for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

Horizontal Delineation

Horizontal delineation was achieved in the areas of H-1, H-3, and H-4 for Benzene, total BTEX, TPH, and Chloride concentrations. The area of H-2 showed elevated concentration of TPH at 241 mg/kg. The area of H-2 was delineated during remediation activities. Refer to Table 1.

5.0 Remediation Activities

Between August 15, 2025, through August 22, 2025, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on August 13, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of BH-1 was excavated to a depth of 8.0' bgs. The area of BH-2 was excavated to a depth of 18' bgs. The area of BH-3 was excavated to a depth of 12' bgs. The areas of BH-4 and H-2 were excavated to a depth of 5' bgs. A total of twenty-three (23) confirmation floor samples were collected (CS-1 through CS-23), and twenty-seven (27) sidewall samples (SW-1 through SW-27) were collected every 200 square feet to ensure the proper removal of the contaminated soil. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 300.0/4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figures 4A through 4B.

All final confirmation samples were below the regulatory requirements for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 4,450 square feet of contamination was remediated, resulting in 1,950 cubic yards of material excavated and transported offsite for proper disposal. Backfill operations were completed on August 28, 2025. A composite sample from the Fred Beard Backfill Pit, located at 32.161928°, -104.316363°, was collected for laboratory analysis on August 25, 2025, before being utilized. Laboratory data can be found in Table 2.



6.0 Conclusions

Based on the assessment and analytical data from the remediation, no further actions are required at the site. Cimarex formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-8988.

Sincerely,

Carmona Resources, LLC

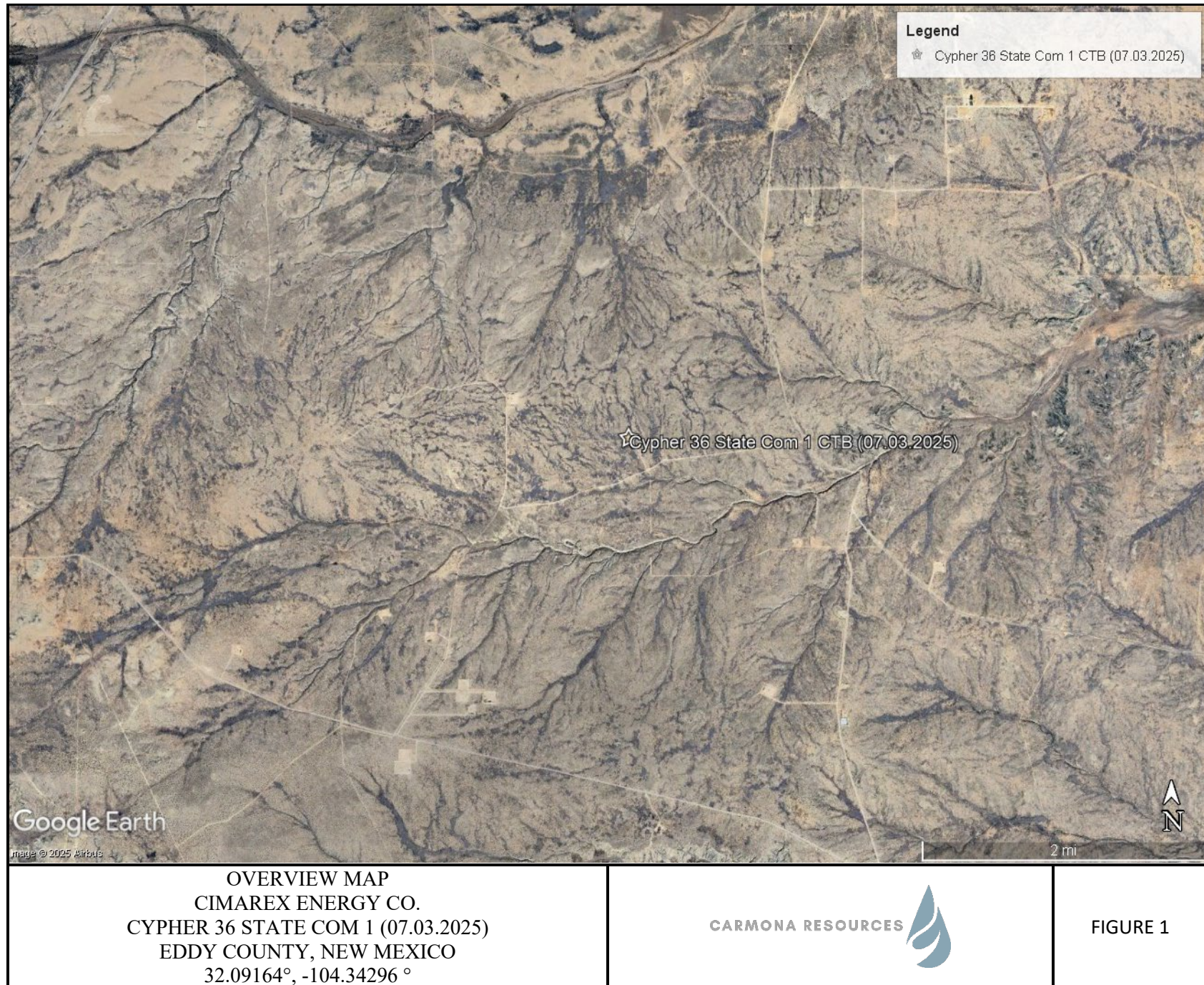
Ashton Thielke
Environmental Manager

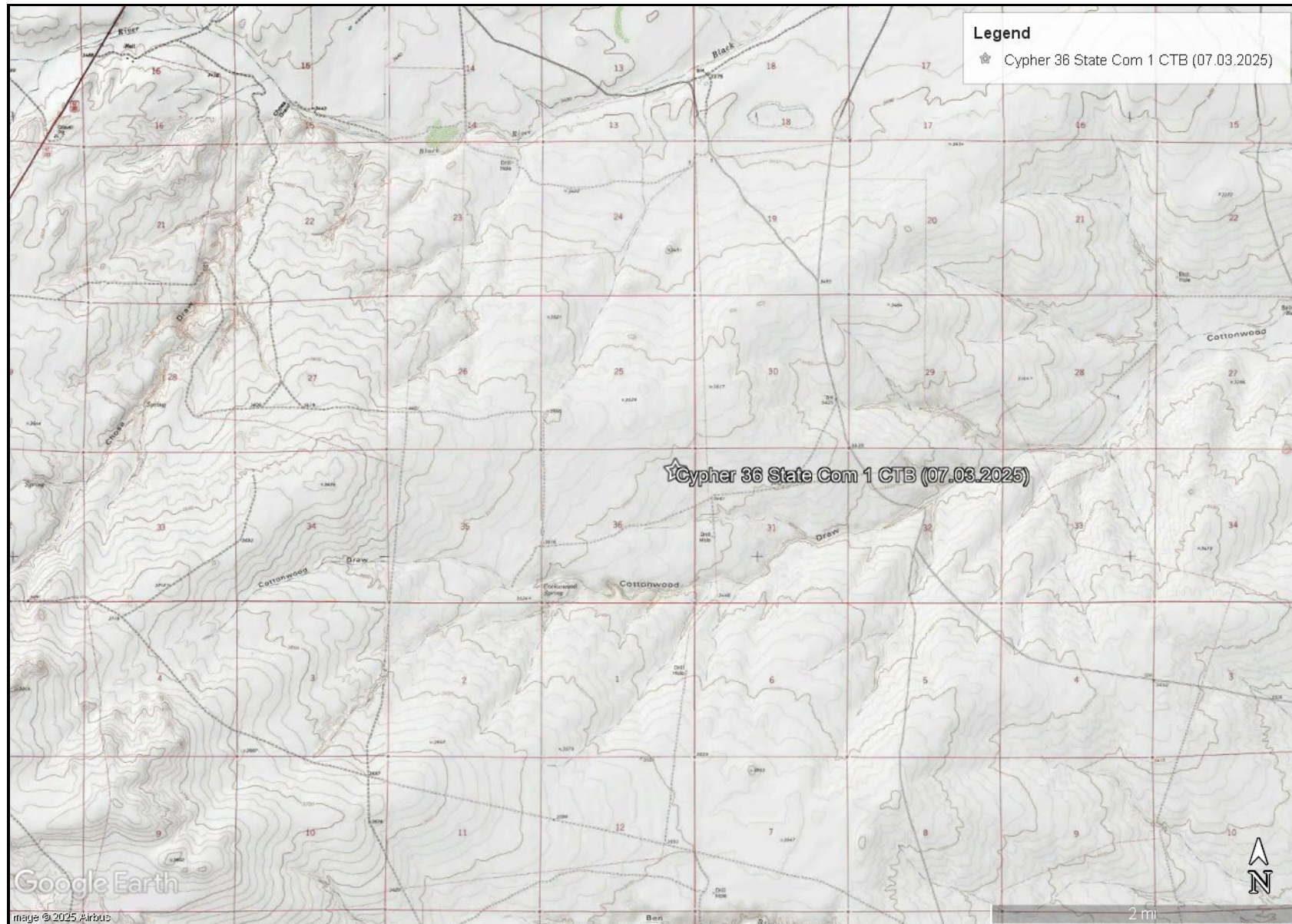
Gilbert Priego
Project Manager

FIGURES

CARMONA RESOURCES







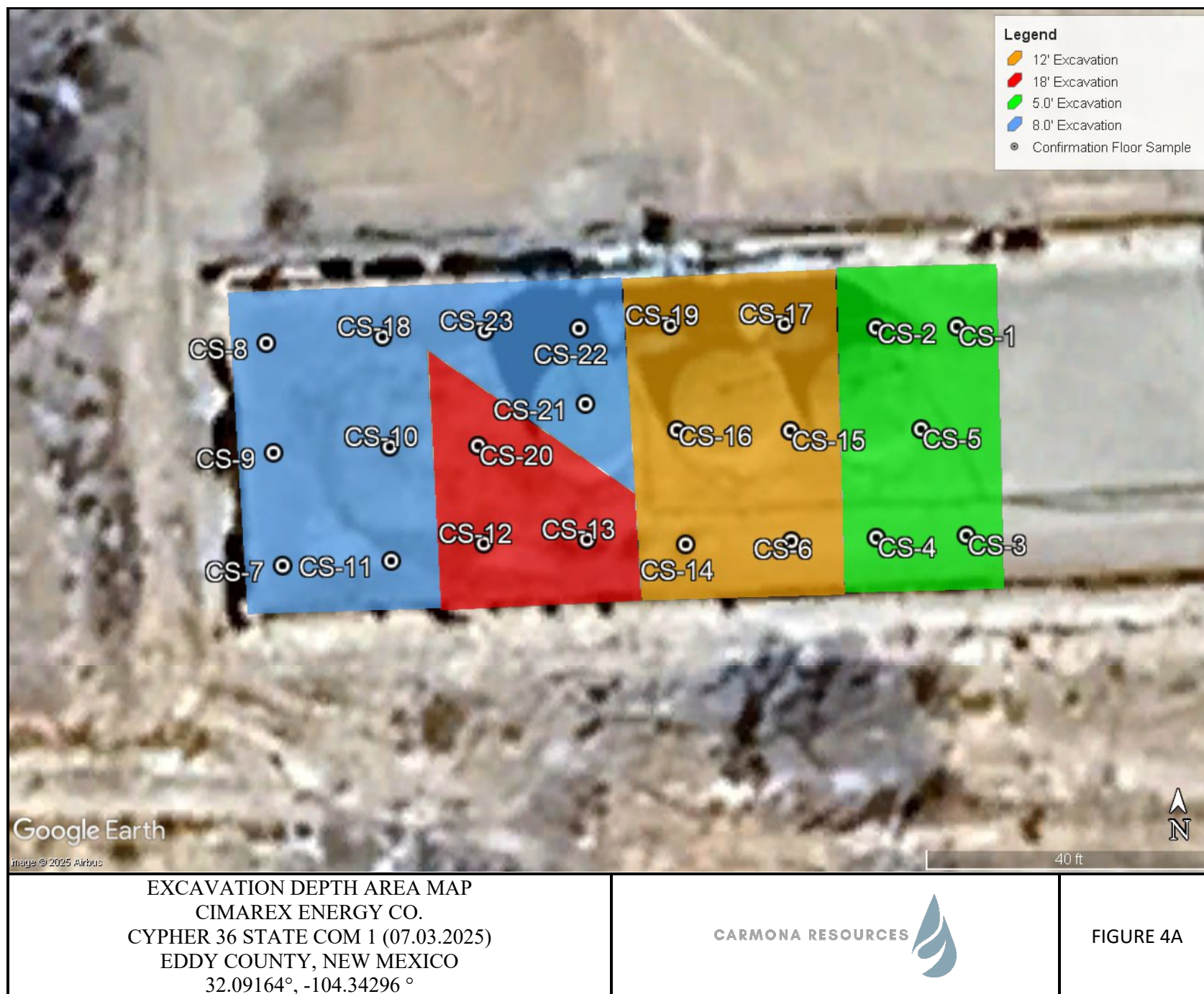
TOPOGRAPHIC MAP
CIMAREX ENERGY CO.
CYPHER 36 STATE COM 1 (07.03.2025)
EDDY COUNTY, NEW MEXICO
32.09164°, -104.34296 °

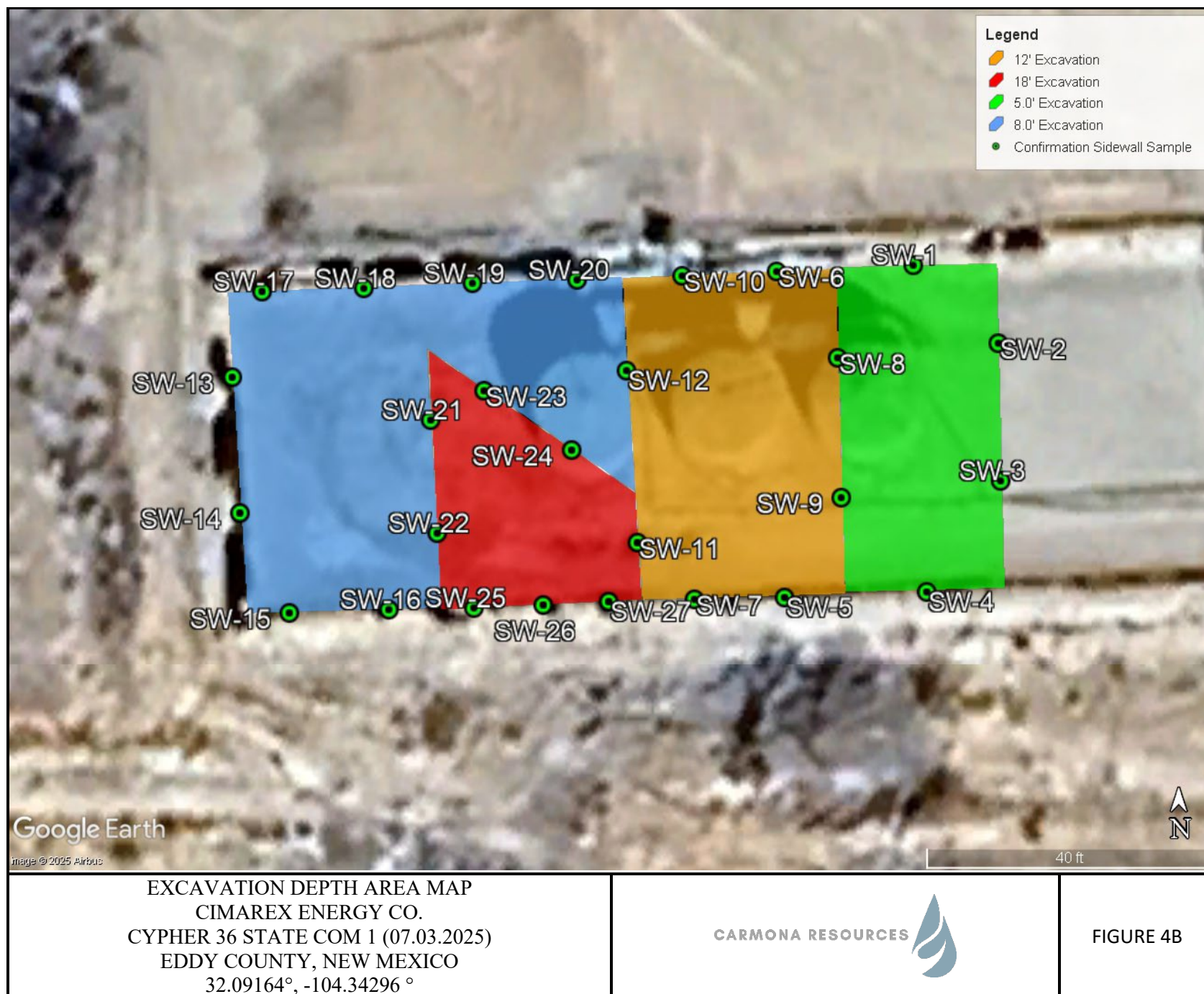
CARMONA RESOURCES



FIGURE 2







APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy Co. of Colorado
Cypher 36 State Com 1 (07.03.2025)
Eddy 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						
BH-1	7/24/2025	0-1.0	-	-	-	-	-	-	-	-	-	-
	"	2.0	-	-	-	-	-	-	-	-	-	-
	"	3.0	-	-	-	-	-	-	-	-	-	-
	"	4.0	-	-	-	-	-	-	-	-	-	-
	"	5.0	-	-	-	-	-	-	-	-	-	-
	"	6.0	-	-	-	-	-	-	-	-	-	-
	"	7.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	753
	"	8.0	-	-	-	-	-	-	-	-	-	-
	"	9.0	-	-	-	-	-	-	-	-	-	-
	"	10.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	268
BH-2	7/24/2025	0-1.0	-	-	-	-	-	-	-	-	-	-
	"	2.0	-	-	-	-	-	-	-	-	-	-
	"	3.0	-	-	-	-	-	-	-	-	-	-
	"	4.0	-	-	-	-	-	-	-	-	-	-
	"	5.0	-	-	-	-	-	-	-	-	-	-
	"	6.0	-	-	-	-	-	-	-	-	-	-
	"	7.0	-	-	-	-	-	-	-	-	-	-
	"	8.0	-	-	-	-	-	-	-	-	-	-
	"	9.0	-	-	-	-	-	-	-	-	-	-
	"	10.0	83.2	524	<50.0	607	<0.0200	<0.0200	0.0686	0.304	0.372	738
	"	15.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,060
	"	20.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	229
BH-3	7/24/2025	0-1.0	-	-	-	-	-	-	-	-	-	-
	"	2.0	-	-	-	-	-	-	-	-	-	-
	"	3.0	-	-	-	-	-	-	-	-	-	-
	"	4.0	-	-	-	-	-	-	-	-	-	-
	"	5.0	-	-	-	-	-	-	-	-	-	-
	"	6.0	-	-	-	-	-	-	-	-	-	-
	"	7.0	-	-	-	-	-	-	-	-	-	-
	"	8.0	-	-	-	-	-	-	-	-	-	-
	"	9.0	-	-	-	-	-	-	-	-	-	-
	"	10.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	874
	"	15.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	147
	"	20.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	91.8
BH-4	7/24/2025	0-1.0	-	-	-	-	-	-	-	-	-	-
	"	2.0	-	-	-	-	-	-	-	-	-	-
	"	3.0	-	-	-	-	-	-	-	-	-	-
	"	4.0	-	-	-	-	-	-	-	-	-	-
	"	5.0	-	-	-	-	-	-	-	-	-	-
	"	6.0	-	-	-	-	-	-	-	-	-	-
	"	7.0	-	-	-	-	-	-	-	-	-	-
	"	8.0	-	-	-	-	-	-	-	-	-	-
	"	9.0	-	-	-	-	-	-	-	-	-	-
	"	10.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	139
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
(BH) Borehole Sample
(-) Not Analyzed
 Removed

Table 1
Cimarex Energy Co. of Colorado
Cypher 36 State Com 1 (07.03.2025)
Eddy 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						
H-1	4/23/2025	0-1.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	281
H-2	4/23/2025	0-1.0	<49.9	241	<49.9	241	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	18.0
H-3	4/23/2025	0-1.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.4
H-4	4/23/2025	0-1.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	23.2
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
(H) - Horizontal Sample
Removed

Table 2
Cimarex Energy Co. of Colorado
Cypher 36 State Com 1 (07.03.2025)
Eddy 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						
CS-1	8/19/2025	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-2	8/19/2025	5.0'	<10.0	16.9	<10.0	16.9	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-3	8/19/2025	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
CS-4	8/19/2025	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-5	8/19/2025	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-6	8/19/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
CS-7	8/19/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
CS-8	8/19/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-9	8/19/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-10	8/21/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-11	8/21/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-12	8/21/2025	18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-13	8/21/2025	18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
CS-14	8/21/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-15	8/21/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-16	8/21/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-17	8/18/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-18	8/18/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
CS-19	8/18/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-20	8/18/2025	18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-21	8/22/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-22	8/22/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-23	8/22/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
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
(CS) Confirmation Sample

Table 2
Cimarex Energy Co. of Colorado
Cypher 36 State Com 1 (07.03.2025)
Eddy 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						
SW-1	8/15/2025	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	56.5
SW-2	8/15/2025	5.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	17.4
SW-3	8/15/2025	5.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	21.9
SW-4	8/18/2025	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	48.4
SW-5	8/19/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-6	8/19/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-7	8/19/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-8	8/21/2025	5.0'-12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-9	8/21/2025	5.0'-12.0'	<10.0	12.3	<10.0	12.3	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-10	8/21/2025	12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-11	8/21/2025	12.0'-18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-12	8/21/2025	8.0'-12.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-13	8/21/2025	8.0'	<10.0	13.9	<10.0	13.9	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-14	8/21/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-15	8/21/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-16	8/21/2025	8.0'	<10.0	14.2	<10.0	14.2	<0.050	<0.050	<0.050	<0.150	<0.300	272
SW-17	8/21/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-18	8/22/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-19	8/22/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-20	8/22/2025	8.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-21	8/22/2025	8.0'-18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-22	8/22/2025	8.0'-18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-23	8/22/2025	8.0'-18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-24	8/22/2025	8.0'-18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-25	8/22/2025	18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-26	8/22/2025	18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-27	8/22/2025	18.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
Backfill Sample	8/25/2025	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	262
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
(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 1

Facility: Cypher 36 State Com 1
(07.03.2025)

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-1 through CS-6.



Photograph No. 2

Facility: Cypher 36 State Com 1
(07.03.2025)

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-1 through CS-6, CS-12 through CS-20.



Photograph No. 3

Facility: Cypher 36 State Com 1
(07.03.2025)

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-7 through CS-11, CS-18.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

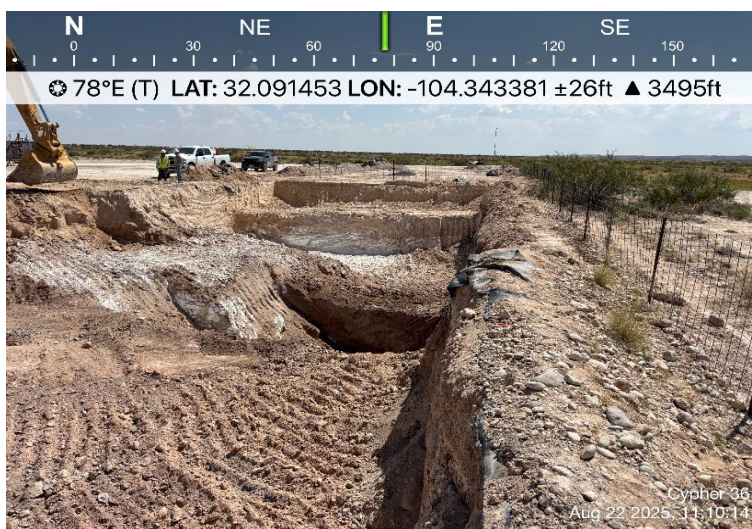
Photograph No. 4

Facility: Cypher 36 State Com 1
(07.03.2025)

County: Eddy County, New Mexico

Description:

View East, area of CS-1 through CS-23.



Photograph No. 5

Facility: Cypher 36 State Com 1
(07.03.2025)

County: Eddy County, New Mexico

Description:

View East, area of CS-7 through CS-11, CS-18, CS-21 through CS-23.



Photograph No. 6

Facility: Cypher 36 State Com 1
(07.03.2025)

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-7 through CS-11, CS-18, CS-21 through CS-23.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 7

Facility: Cypher 36 State Com 1
(07.03.2025)

County: Eddy County, New Mexico

Description:

View South, area of CS-12, CS-13, and CS-20.



APPENDIX C

CARMONA RESOURCES



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 481746

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 481746
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

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

Nature and Volume of Release <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Fire Tank (Any) Produced Water Released: 42 BBL Recovered: 42 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The Lease Operator was near the Cypher facility and saw lightning strike the facility. Upon arrival, the Operator saw the 300-barrel fiberglass tank on fire. The Fire Department was notified and successful extinguished the fire. The fiberglass tank was the only equipment destroyed. Based on tank gauges, an estimated 42 barrels produced water was released into the gravel lined containment. Vac trucks were able to recover a total of 100 barrels fluid, a combination of rainwater, fluid from the fire trucks and produced water released from the burnt tank. The impacted gravel will be removed to expose the liner. A liner inspection will be scheduled in the coming weeks.

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QUESTIONS, Page 2

Action 481746

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 481746
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 481746

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 481746
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	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.
☒	I acknowledge the fact that 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.
☒	I acknowledge the fact that, 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.

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CONDITIONS

Action 481746

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 481746
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
lluig	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	7/3/2025

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QUESTIONS

Action 495551

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495551
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2025
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.09164,-104.34296

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Phone: (505) 476-3441

General Information
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CONDITIONS

Action 495551

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495551
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/13/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/13/2025

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QUESTIONS

Action 495553

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495553
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/18/2025
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.09164,-104.34296

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CONDITIONS

Action 495553

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495553
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/13/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/13/2025

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QUESTIONS

Action 495555

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495555
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/19/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.09164,-104.34296

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Phone: (505) 629-6116

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CONDITIONS

Action 495555

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495555
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/13/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/13/2025

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Oil Conservation Division
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QUESTIONS

Action 495556

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495556
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/20/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.09164,-104.34296

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CONDITIONS

Action 495556

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495556
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/13/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/13/2025

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Oil Conservation Division
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QUESTIONS

Action 495559

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495559
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/21/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.09164,-104.34296

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CONDITIONS

Action 495559

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495559
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/13/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/13/2025

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QUESTIONS

Action 495564

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495564
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/22/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.09164,-104.34296

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CONDITIONS

Action 495564

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495564
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/13/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/13/2025

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QUESTIONS

Action 495566

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495566
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source	
Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	35
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/25/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.09164,-104.34296

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Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

CONDITIONS

Action 495566

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495566
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/13/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/13/2025

APPENDIX D

CARMONA RESOURCES

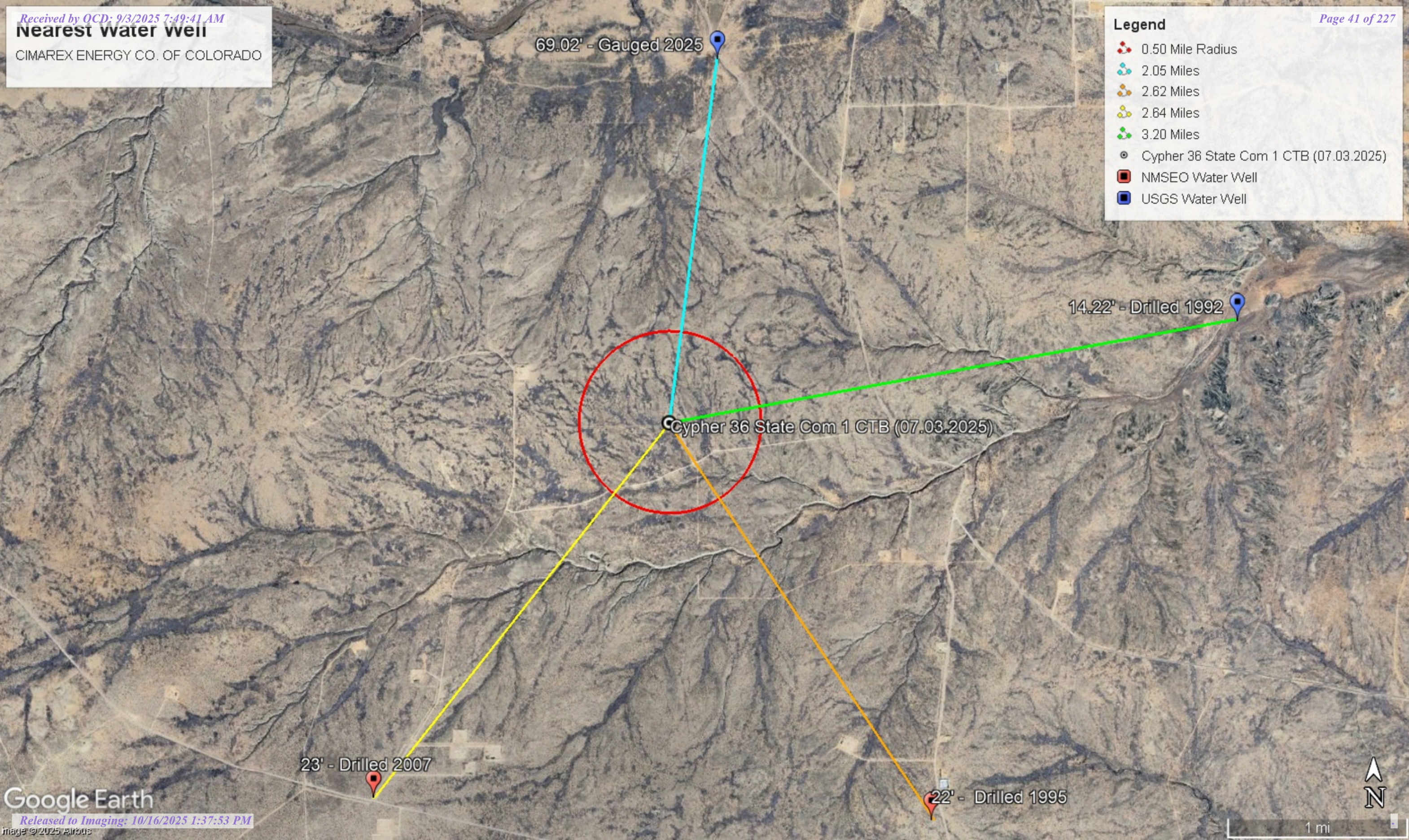


Nearest water well

CIMAREX ENERGY CO. OF COLORADO

Legend

- 0.50 Mile Radius
- 2.05 Miles
- 2.62 Miles
- 2.64 Miles
- 3.20 Miles
- Cypher 36 State Com 1 CTB (07.03.2025)
- NMSEO Water Well
- USGS Water Well



High Karst

CIMAREX ENERGY CO. OF COLORADO

Legend

- Cypher 36 State Com 1 CTB (07.03.2025)
- High

Cypher 36 State Com 1 CTB (07.03.2025)





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 smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	TwS	Range	X	Y	Map	(meters)	(In feet)		
													Distance	Well Depth	Depth Water	Water Column
C 04013 POD1		C	ED	SE	NE	NE	24	25S	25E	562099.6	3553979.0		3198	120	66	54
C 03035		C	ED	NE	NE	NE	24	25S	25E	562091.0	3554125.0 *		3344	120	70	50

Average Depth to Water: 68 feet

Minimum Depth: 66 feet

Maximum Depth: 70 feet

Record Count: 2

UTM Filters (in meters):

Easting: 561999.00
Northing: 3550782.00
Radius: 4000

* UTM location was derived from PLSS - see Help

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

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	? S
				Groundwater	New Mexico	GO	

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

Groundwater levels for New Mexico

Click to hide state-specific text

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320719104200201

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

USGS 320719104200201 25S.26E.19.111443 609

Eddy County, New Mexico
Latitude 32°07'14.5", Longitude 104°20'18.6" NAD83
Land-surface elevation 3,415.00 feet above NGVD29
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 measur
1949-11-19			D 62610		3345.08	NGVD29	1		Z	
1949-11-19			D 62611		3346.78	NAVD88	1		Z	
1949-11-19			D 72019	69.92			1		Z	
1953-11-06			D 62610		3344.15	NGVD29	1		Z	
1953-11-06			D 62611		3345.85	NAVD88	1		Z	
1953-11-06			D 72019	70.85			1		Z	
1978-01-03			D 62610		3347.40	NGVD29	1		Z	
1978-01-03			D 62611		3349.10	NAVD88	1		Z	
1978-01-03			D 72019	67.60			1		Z	
1992-11-19			D 62610		3348.47	NGVD29	1		S	
1992-11-19			D 62611		3350.17	NAVD88	1		S	
1992-11-19			D 72019	66.53			1		S	
1998-01-08			D 62610		3346.52	NGVD29	1		S	
1998-01-08			D 62611		3348.22	NAVD88	1		S	
1998-01-08			D 72019	68.48			1		S	
2003-01-30			D 62610		3343.17	NGVD29	1		S	USGS

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	
2003-01-30	D	62611	3344.87	NAVD88	1	S	USGS
2003-01-30	D	72019	71.83		1	S	USGS
2013-01-08 19:40 UTC	m	62610	3341.52	NGVD29	1	S	USGS
2013-01-08 19:40 UTC	m	62611	3343.22	NAVD88	1	S	USGS
2013-01-08 19:40 UTC	m	72019	73.48		1	S	USGS
2018-02-01 18:00 UTC	m	62610	3348.73	NGVD29	P	S	USGS
2018-02-01 18:00 UTC	m	62611	3350.43	NAVD88	P	S	USGS
2018-02-01 18:00 UTC	m	72019	66.27		P	S	USGS
2021-02-25 19:58 UTC	m	62610	3347.13	NGVD29	1	S	USGS
2021-02-25 19:58 UTC	m	62611	3348.83	NAVD88	1	S	USGS
2021-02-25 19:58 UTC	m	72019	67.87		1	S	USGS
2022-01-12 19:50 UTC	m	62610		NGVD29	6	S	USGS
2022-01-12 19:50 UTC	m	62611		NAVD88	6	S	USGS
2022-01-12 19:50 UTC	m	72019			6	S	USGS
2024-03-01 19:21 UTC	m	62610	3346.19	NGVD29	1	S	USGS
2024-03-01 19:21 UTC	m	62611	3347.89	NAVD88	1	S	USGS
2024-03-01 19:21 UTC	m	72019	68.81		1	S	USGS
2025-01-02 16:00 UTC	m	62610	3345.98	NGVD29	P	S	USGS
2025-01-02 16:00 UTC	m	62611	3347.68	NAVD88	P	S	USGS
2025-01-02 16:00 UTC	m	72019	69.02		P	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	6	Measurement unable to be obtained due to local conditions
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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7/16/25, 7:49 AM

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	? S
------	------	---	------------------------	---	---	---------------------------------	--------

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

465486

Section 1. GENERAL INFORMATION

(A) Owner of well Roswell District Carlsbad Resource Area ^{95 MAW 20} ~~Owner's Well No.~~ AM 10 39
Street or Post Office Address P.O. Box 1778
City and State Carlsbad, NM 88220

STATE ENGINEER OFFICE
SANTA FE NEW MEXICO

Well was drilled under Permit No. C-2407 and is located in the:

- a. NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 09 Township 26S Range 26E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Eddy County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Campbell Drilling License No. ~~XXXXXXXXXXXX~~ 1259

Address 10 W. Blevins

Drilling Began 1-27-95 Completed 2-4-95 Type tools Cable Size of hole 10 1/4 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 160 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 22 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
22	23	1	Brown Lime & Gyp	1 1/2
62	65	3	Brown Lime & Gyp	1 1/2

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
7	23		1 1/2	160		collar	130	160
							20	80

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 04-20-95

Quad _____ FWL _____ FSL _____

File No. C-2407 Use Stock Location No. 26S.26E.8.14131

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

Plugged well back to 60 ft. Bottom water very bad. Gravel back, set two sacks bentonite and five sacks cement. Set for 48 hrs and tagged up at 60 ft.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Mike Campbell
Driller

95 APR 20 PM 8 36
STATE POLICE NEW MEXICO
OFFICE
Record of the above

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 and Section 5 need be completed.

A

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

Pod 2
468986

Section 1. GENERAL INFORMATION

(A) Owner of well Gary Lovelady Owner's Well No. _____
Street or Post Office Address 550 Beback Inn Rd.
City and State San Marcos, TX 78666

Well was drilled under Permit No. 3321 and is located in the: N32Deg04.680'
W104Deg22.498'
a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 3 Township 26S Range 25E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348
Address 7317 Etcheverry Rd., Carlsbad, NM 88220
Drilling Began 2-6-07 Completed 2-8-07 Type tools Rotary Size of hole 6 7/8 1 1/4 in.
Elevation of land surface or _____ at well is 3480 ft. Total depth of well 150 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 23 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
60	150	110	Anhydrite:No obvious zones	1/2-3/4

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5	Sch 40	PVC	+1.5	150	151.5	Cap	110	150

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

Date Received 4.30.07 FOR USE OF STATE ENGINEER ONLY
Quad _____ FWL _____ FSL _____
File No. C-3321 Use Stock Location No. 26S.25E.3. 114

T- ✓

Section 7. REMARKS AND ADDITIONAL INFORMATION

Released to Imaging: 10/16/2025 1:37:53 PM



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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

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320559104172201

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

USGS 320559104172201 25S.26E.28.423113

Eddy County, New Mexico
Latitude 32°05'59", Longitude 104°17'22" NAD27
Land-surface elevation 3,283 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
1983-02-01			D	62610	3266.82	NGVD29	1		Z	
1983-02-01			D	62611	3268.50	NAVD88	1		Z	
1983-02-01			D	72019	14.50		1		Z	
1987-10-08			D	62610	3268.06	NGVD29	1		Z	
1987-10-08			D	62611	3269.74	NAVD88	1		Z	
1987-10-08			D	72019	13.26		1		Z	
1992-11-19			D	62610	3267.10	NGVD29	P		S	
1992-11-19			D	62611	3268.78	NAVD88	P		S	
1992-11-19			D	72019	14.22		P		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

Section	Code	Description
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
Status	P	Pumping
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?>

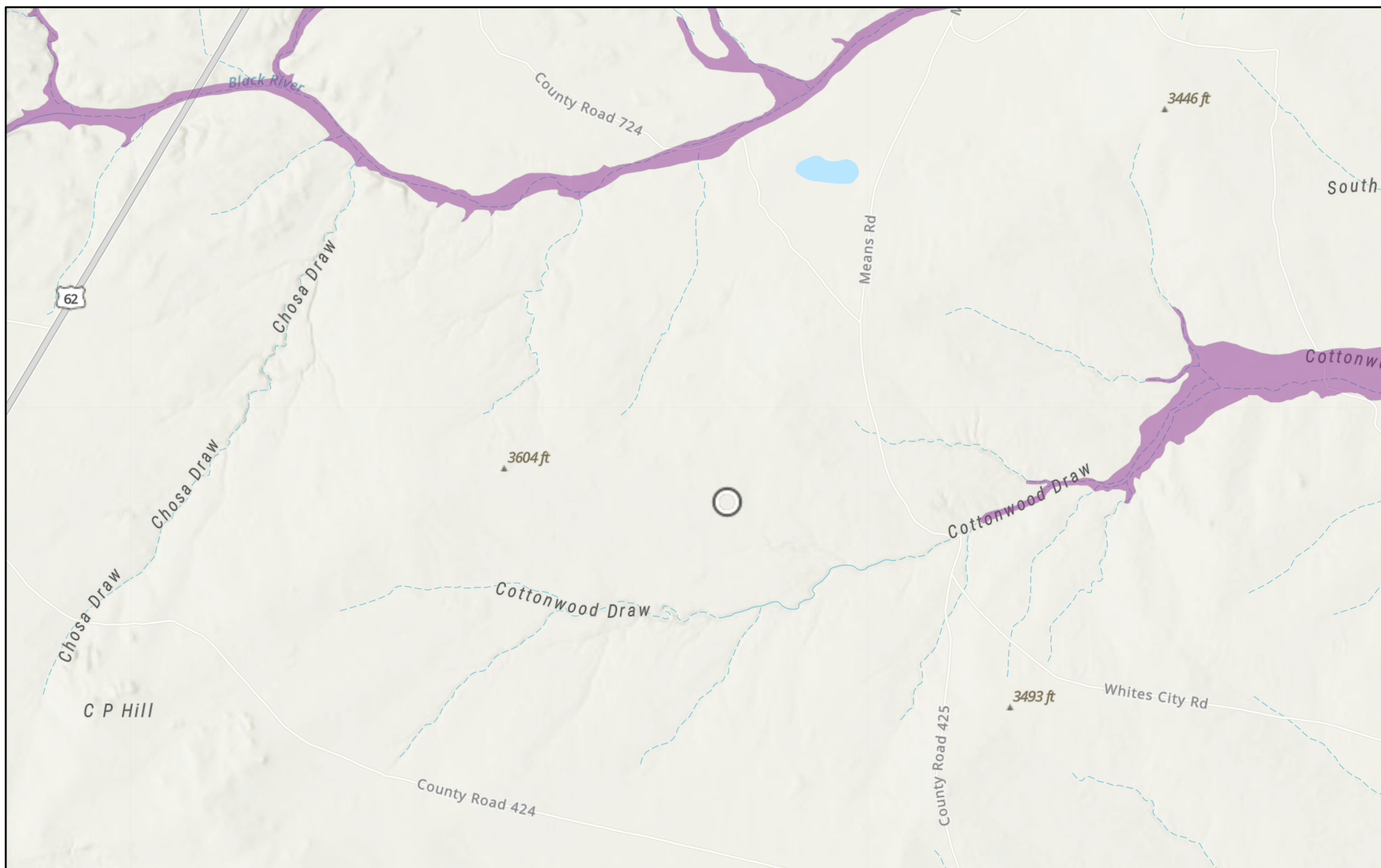


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2025-07-16 08:47:46 EDT

0.37 0.29 nadww02

Cypher 36 State Com 1 CTB (07.03.2025)

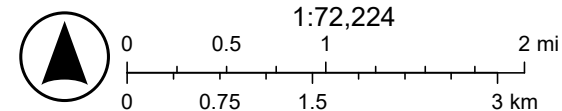


7/16/2025

USA Flood Hazard Areas

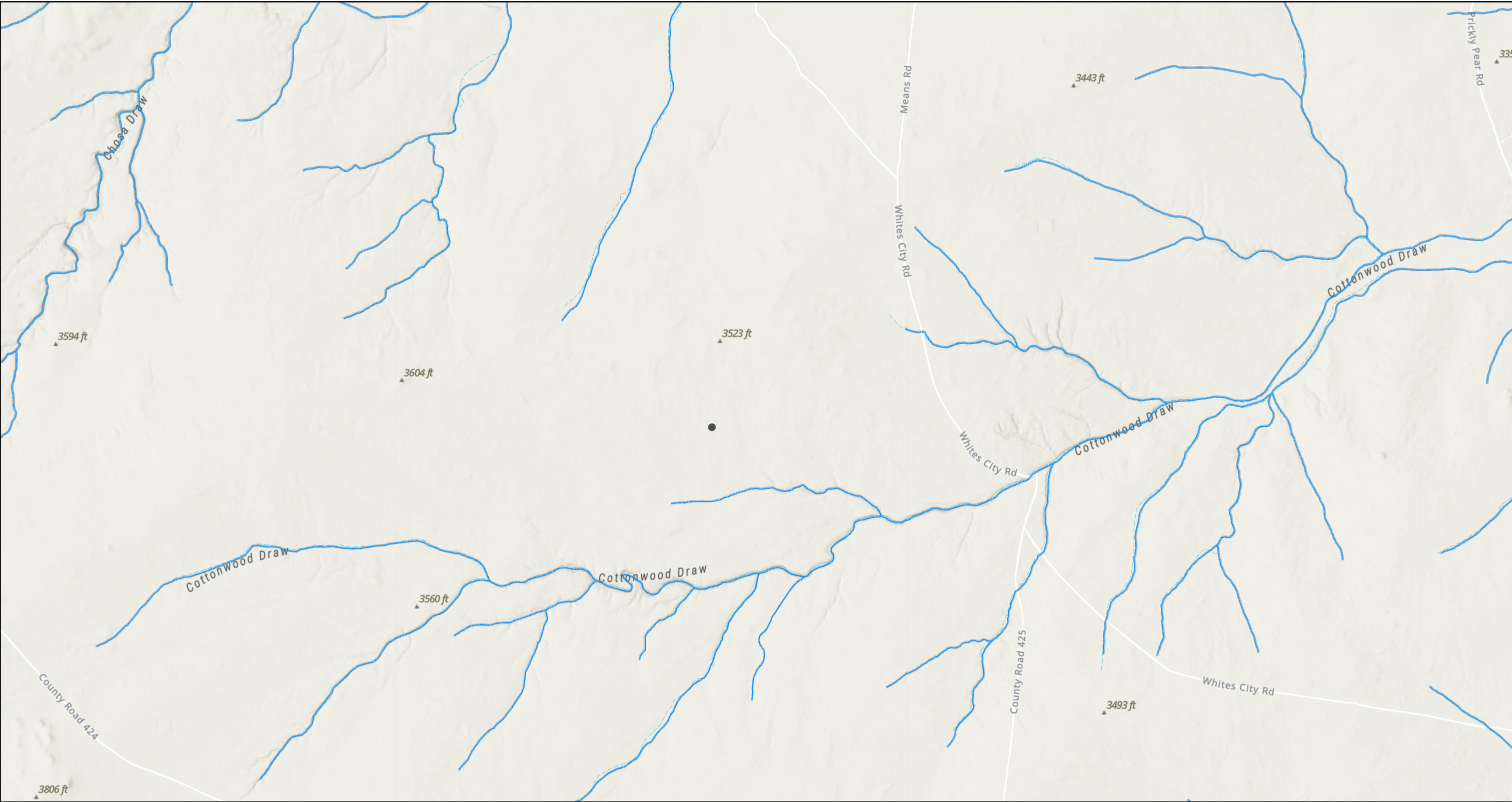
1% Annual Chance Flood Hazard

World_Hillshade



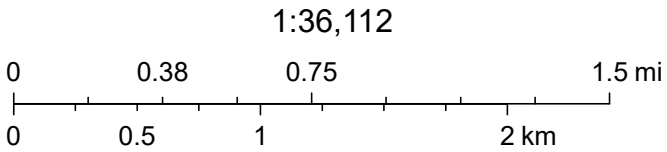
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Cypher 36 State Com 1 CTB (07.03.2025)



7/16/2025, 7:45:16 AM

— OSE Streams



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APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 7/28/2025 1:13:51 PM

JOB DESCRIPTION

Cypher 36 State Com 1
Eddy Co, NM

JOB NUMBER

880-60774-1

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
7/28/2025 1:13:51 PM

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

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Laboratory Job ID: 880-60774-1
SDG: Eddy Co, NM

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QC Sample Results	14
QC Association Summary	20
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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Cypher 36 State Com 1

Job ID: 880-60774-1

Job ID: 880-60774-1

Eurofins Midland

**Job Narrative
880-60774-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/25/2025 9:35 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 -5.6°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-2 (10.0') (880-60774-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: BH-2 (10.0') (880-60774-20). Elevated reporting limits (RLs) are provided.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-1 (7.0') (880-60774-7), BH-2 (15') (880-60774-21) and BH-3 (10.0') (880-60774-32). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-60774-A-7-C MS). 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-115058 and analytical batch 880-115061 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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (7.0')

Lab Sample ID: 880-60774-7

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:30	07/25/25 13:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:30	07/25/25 13:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:30	07/25/25 13:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/25/25 10:30	07/25/25 13:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:30	07/25/25 13:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/25/25 10:30	07/25/25 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/25/25 10:30	07/25/25 13:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/25/25 10:30	07/25/25 13:59	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			07/25/25 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/25/25 17:20	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		07/25/25 10:35	07/25/25 17:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 17:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130	07/25/25 10:35	07/25/25 17:20	1
o-Terphenyl (Surr)	67	S1-	70 - 130	07/25/25 10:35	07/25/25 17:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	753		10.0		mg/Kg			07/26/25 03:59	1

Client Sample ID: BH-1 (10.0')

Lab Sample ID: 880-60774-10

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:30	07/25/25 14:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:30	07/25/25 14:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:30	07/25/25 14:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/25/25 10:30	07/25/25 14:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:30	07/25/25 14:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/25/25 10:30	07/25/25 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/25/25 10:30	07/25/25 14:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/25/25 10:30	07/25/25 14:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (10.0')

Lab Sample ID: 880-60774-10

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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			07/25/25 14:19	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			07/25/25 18:08	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		07/25/25 10:35	07/25/25 18:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 18:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130				07/25/25 10:35	07/25/25 18:08	1
o-Terphenyl (Surr)	73		70 - 130				07/25/25 10:35	07/25/25 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		9.96		mg/Kg			07/26/25 04:04	1

Client Sample ID: BH-2 (10.0')

Lab Sample ID: 880-60774-20

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		07/25/25 10:30	07/25/25 14:40	10
Toluene	<0.0200	U	0.0200		mg/Kg		07/25/25 10:30	07/25/25 14:40	10
Ethylbenzene	0.0686		0.0200		mg/Kg		07/25/25 10:30	07/25/25 14:40	10
m-Xylene & p-Xylene	0.0588		0.0400		mg/Kg		07/25/25 10:30	07/25/25 14:40	10
o-Xylene	0.245		0.0200		mg/Kg		07/25/25 10:30	07/25/25 14:40	10
Xylenes, Total	0.304		0.0400		mg/Kg		07/25/25 10:30	07/25/25 14:40	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	262	S1+	70 - 130				07/25/25 10:30	07/25/25 14:40	10
1,4-Difluorobenzene (Surr)	76		70 - 130				07/25/25 10:30	07/25/25 14:40	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.372		0.0400		mg/Kg			07/25/25 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	607		50.0		mg/Kg			07/25/25 18:24	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	83.2		50.0		mg/Kg		07/25/25 10:35	07/25/25 18:24	1
Diesel Range Organics (Over C10-C28)	524		50.0		mg/Kg		07/25/25 10:35	07/25/25 18:24	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (10.0')

Lab Sample ID: 880-60774-20

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:35	07/25/25 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130				07/25/25 10:35	07/25/25 18:24	1
o-Terphenyl (Surr)	84		70 - 130				07/25/25 10:35	07/25/25 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	738		9.98		mg/Kg			07/26/25 04:10	1

Client Sample ID: BH-2 (15')

Lab Sample ID: 880-60774-21

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/26/25 11:49	07/26/25 15:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 15:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 15:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/26/25 11:49	07/26/25 15:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 15:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/26/25 11:49	07/26/25 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				07/26/25 11:49	07/26/25 15:03	1
1,4-Difluorobenzene (Surr)	81		70 - 130				07/26/25 11:49	07/26/25 15:03	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			07/26/25 15:03	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			07/25/25 18:40	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		07/25/25 10:35	07/25/25 18:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/25/25 10:35	07/25/25 18:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/25/25 10:35	07/25/25 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130				07/25/25 10:35	07/25/25 18:40	1
o-Terphenyl (Surr)	66	S1-	70 - 130				07/25/25 10:35	07/25/25 18:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		49.9		mg/Kg			07/26/25 04:15	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (20')

Lab Sample ID: 880-60774-22

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/26/25 11:49	07/26/25 15:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 15:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 15:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/26/25 11:49	07/26/25 15:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 15:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/26/25 11:49	07/26/25 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/26/25 11:49	07/26/25 15:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/26/25 11:49	07/26/25 15:23	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			07/26/25 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/25/25 18:56	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		07/25/25 10:35	07/25/25 18:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/25/25 10:35	07/25/25 18:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/25/25 10:35	07/25/25 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130	07/25/25 10:35	07/25/25 18:56	1
o-Terphenyl (Surr)	72		70 - 130	07/25/25 10:35	07/25/25 18:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		10.0		mg/Kg			07/26/25 04:33	1

Client Sample ID: BH-3 (10.0')

Lab Sample ID: 880-60774-32

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/26/25 11:49	07/26/25 15:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 15:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 15:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/26/25 11:49	07/26/25 15:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 15:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/26/25 11:49	07/26/25 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/26/25 11:49	07/26/25 15:44	1
1,4-Difluorobenzene (Surr)	77		70 - 130	07/26/25 11:49	07/26/25 15:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (10.0')

Lab Sample ID: 880-60774-32

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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			07/26/25 15:44	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			07/25/25 19:12	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		07/25/25 10:35	07/25/25 19:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 19:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130				07/25/25 10:35	07/25/25 19:12	1
o-Terphenyl (Surr)	68	S1-	70 - 130				07/25/25 10:35	07/25/25 19:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	874		10.1		mg/Kg			07/26/25 04:38	1

Client Sample ID: BH-3 (15')

Lab Sample ID: 880-60774-33

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/26/25 11:49	07/26/25 16:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 16:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 16:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/26/25 11:49	07/26/25 16:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/26/25 11:49	07/26/25 16:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/26/25 11:49	07/26/25 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/26/25 11:49	07/26/25 16:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130				07/26/25 11:49	07/26/25 16:04	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			07/26/25 16:04	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			07/25/25 19:28	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		07/25/25 10:35	07/25/25 19:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/25/25 10:35	07/25/25 19:28	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (15')

Lab Sample ID: 880-60774-33

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:35	07/25/25 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130				07/25/25 10:35	07/25/25 19:28	1
o-Terphenyl (Surr)	81		70 - 130				07/25/25 10:35	07/25/25 19:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		10.1		mg/Kg			07/26/25 04:44	1

Client Sample ID: BH-3 (20')

Lab Sample ID: 880-60774-34

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/26/25 11:49	07/26/25 16:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 16:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 16:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/26/25 11:49	07/26/25 16:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 16:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/26/25 11:49	07/26/25 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				07/26/25 11:49	07/26/25 16:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/26/25 11:49	07/26/25 16:25	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			07/26/25 16:25	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			07/25/25 19:44	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		07/25/25 10:35	07/25/25 19:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/25/25 10:35	07/25/25 19:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/25/25 10:35	07/25/25 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				07/25/25 10:35	07/25/25 19:44	1
o-Terphenyl (Surr)	71		70 - 130				07/25/25 10:35	07/25/25 19:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.8		9.94		mg/Kg			07/26/25 04:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-4 (10.0')

Lab Sample ID: 880-60774-44

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/26/25 11:49	07/26/25 16:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/26/25 11:49	07/26/25 16:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/26/25 11:49	07/26/25 16:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/26/25 11:49	07/26/25 16:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/26/25 11:49	07/26/25 16:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/26/25 11:49	07/26/25 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/26/25 11:49	07/26/25 16:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/26/25 11:49	07/26/25 16:45	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			07/26/25 16:45	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			07/25/25 19:59	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		07/25/25 10:35	07/25/25 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 19:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	07/25/25 10:35	07/25/25 19:59	1
o-Terphenyl (Surr)	75		70 - 130	07/25/25 10:35	07/25/25 19:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		9.98		mg/Kg			07/26/25 04:55	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-60766-A-1-B MS	Matrix Spike	107	101
880-60766-A-1-C MSD	Matrix Spike Duplicate	105	97
880-60774-7	BH-1 (7.0')	100	100
880-60774-10	BH-1 (10.0')	100	98
880-60774-20	BH-2 (10.0')	262 S1+	76
880-60774-21	BH-2 (15')	95	81
880-60774-22	BH-2 (20')	97	87
880-60774-32	BH-3 (10.0')	107	77
880-60774-33	BH-3 (15')	103	90
880-60774-34	BH-3 (20')	93	100
880-60774-44	BH-4 (10.0')	96	97
890-8508-A-1-E MS	Matrix Spike	114	105
890-8508-A-1-F MSD	Matrix Spike Duplicate	105	99
LCS 880-115011/1-A	Lab Control Sample	105	105
LCS 880-115079/1-A	Lab Control Sample	102	102
LCSD 880-115011/2-A	Lab Control Sample Dup	92	106
LCSD 880-115079/2-A	Lab Control Sample Dup	114	107
MB 880-115011/5-A	Method Blank	110	83
MB 880-115079/5-A	Method Blank	88	97
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)
880-60774-7	BH-1 (7.0')	73	67 S1-
880-60774-7 MS	BH-1 (7.0')	69 S1-	68 S1-
880-60774-7 MSD	BH-1 (7.0')	95	76
880-60774-10	BH-1 (10.0')	82	73
880-60774-20	BH-2 (10.0')	79	84
880-60774-21	BH-2 (15')	71	66 S1-
880-60774-22	BH-2 (20')	82	72
880-60774-32	BH-3 (10.0')	79	68 S1-
880-60774-33	BH-3 (15')	87	81
880-60774-34	BH-3 (20')	81	71
880-60774-44	BH-4 (10.0')	84	75
LCS 880-115025/2-A	Lab Control Sample	91	94
LCSD 880-115025/3-A	Lab Control Sample Dup	109	107
MB 880-115025/1-A	Method Blank	114	106
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115011/5-A

Matrix: Solid

Analysis Batch: 115004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/25/25 09:18	07/25/25 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/25/25 09:18	07/25/25 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/25/25 09:18	07/25/25 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/25/25 09:18	07/25/25 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/25/25 09:18	07/25/25 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/25/25 09:18	07/25/25 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/25/25 09:18	07/25/25 11:54	1
1,4-Difluorobenzene (Surr)	83		70 - 130	07/25/25 09:18	07/25/25 11:54	1

Lab Sample ID: LCS 880-115011/1-A

Matrix: Solid

Analysis Batch: 115004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09675		mg/Kg		97	70 - 130
Toluene	0.100	0.08863		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.1008		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2005		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09921		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-115011/2-A

Matrix: Solid

Analysis Batch: 115004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1048		mg/Kg		105	70 - 130	8	35
Toluene	0.100	0.09416		mg/Kg		94	70 - 130	6	35
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2091		mg/Kg		105	70 - 130	4	35
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-60766-A-1-B MS

Matrix: Solid

Analysis Batch: 115004

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 115011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09236		mg/Kg		92	70 - 130
Toluene	<0.00200	U	0.100	0.08535		mg/Kg		85	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-60766-A-1-B MS

Matrix: Solid

Analysis Batch: 115004

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 115011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09516		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1895		mg/Kg		95	70 - 130
o-Xylene	<0.00200	U	0.100	0.09293		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-60766-A-1-C MSD

Matrix: Solid

Analysis Batch: 115004

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 115011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07832		mg/Kg		78	70 - 130	16	35
Toluene	<0.00200	U	0.100	0.07222		mg/Kg		72	70 - 130	17	35
Ethylbenzene	<0.00200	U	0.100	0.07827		mg/Kg		78	70 - 130	19	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1538		mg/Kg		77	70 - 130	21	35
o-Xylene	<0.00200	U	0.100	0.07419		mg/Kg		74	70 - 130	22	35

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

Lab Sample ID: MB 880-115079/5-A

Matrix: Solid

Analysis Batch: 115078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 14:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/26/25 11:49	07/26/25 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/25 11:49	07/26/25 14:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/26/25 11:49	07/26/25 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/26/25 11:49	07/26/25 14:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/26/25 11:49	07/26/25 14:20	1

Lab Sample ID: LCS 880-115079/1-A

Matrix: Solid

Analysis Batch: 115078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08525		mg/Kg		85	70 - 130
Toluene	0.100	0.08989		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09517		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2049		mg/Kg		102	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-115079/1-A

Matrix: Solid

Analysis Batch: 115078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09452		mg/Kg		95	70 - 130

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

Lab Sample ID: LCSD 880-115079/2-A

Matrix: Solid

Analysis Batch: 115078

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115079

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09664		mg/Kg		97	70 - 130	13	35
Toluene	0.100	0.09180		mg/Kg		92	70 - 130	2	35
Ethylbenzene	0.100	0.09476		mg/Kg		95	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2261		mg/Kg		113	70 - 130	10	35
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-8508-A-1-E MS

Matrix: Solid

Analysis Batch: 115078

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 115079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0992	0.09666		mg/Kg		97	70 - 130
Toluene	<0.00199	U	0.0992	0.09150		mg/Kg		92	70 - 130
Ethylbenzene	<0.00199	U	0.0992	0.08083		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1862		mg/Kg		94	70 - 130
o-Xylene	<0.00199	U	0.0992	0.1116		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-8508-A-1-F MSD

Matrix: Solid

Analysis Batch: 115078

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 115079

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	0.09758		mg/Kg		97	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.09663		mg/Kg		96	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.100	0.1084		mg/Kg		108	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2349		mg/Kg		117	70 - 130	23	35
o-Xylene	<0.00199	U	0.100	0.1088		mg/Kg		109	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-8508-A-1-F MSD

Matrix: Solid

Analysis Batch: 115078

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 115079

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-115025/1-A

Matrix: Solid

Analysis Batch: 115009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115025

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 16:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 16:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/25/25 10:35	07/25/25 16:29	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane (Surr)	114		70 - 130				07/25/25 10:35	07/25/25 16:29	1
o-Terphenyl (Surr)	106		70 - 130				07/25/25 10:35	07/25/25 16:29	1

Lab Sample ID: LCS 880-115025/2-A

Matrix: Solid

Analysis Batch: 115009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	851.4		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	960.2		mg/Kg		96	70 - 130		
Surrogate	LCS LCS		Limits						
	%Recovery	Qualifier							
1-Chlorooctane (Surr)	91		70 - 130						
o-Terphenyl (Surr)	94		70 - 130						

Lab Sample ID: LCSD 880-115025/3-A

Matrix: Solid

Analysis Batch: 115009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115025

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1036		mg/Kg		104	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	1088		mg/Kg		109	70 - 130	12	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane (Surr)	109		70 - 130						
o-Terphenyl (Surr)	107		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-60774-7 MS

Matrix: Solid

Analysis Batch: 115009

Client Sample ID: BH-1 (7.0')

Prep Type: Total/NA

Prep Batch: 115025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	723.3		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	752.8		mg/Kg		75	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	69	S1-	70 - 130						
o-Terphenyl (Surr)	68	S1-	70 - 130						

Lab Sample ID: 880-60774-7 MSD

Matrix: Solid

Analysis Batch: 115009

Client Sample ID: BH-1 (7.0')

Prep Type: Total/NA

Prep Batch: 115025

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	840.9		mg/Kg		84	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	823.8		mg/Kg		83	70 - 130	9	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	95		70 - 130								
o-Terphenyl (Surr)	76		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115058/1-A

Matrix: Solid

Analysis Batch: 115061

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/26/25 03:25	1

Lab Sample ID: LCS 880-115058/2-A

Matrix: Solid

Analysis Batch: 115061

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-115058/3-A

Matrix: Solid

Analysis Batch: 115061

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	253.4		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 820-20064-A-1-C MSD				Client Sample ID: Matrix Spike Duplicate								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 115061												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	46.8		252	311.9		mg/Kg		105	90 - 110	0	20	

Lab Sample ID: 820-20064-A-1-E MS				Client Sample ID: Matrix Spike								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 115061												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	46.8		252	310.8		mg/Kg		105	90 - 110			

Lab Sample ID: 880-60804-A-1-B MS				Client Sample ID: Matrix Spike								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 115061												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	1220	F1	1250	2685	F1	mg/Kg		117	90 - 110			

Lab Sample ID: 880-60804-A-1-C MSD				Client Sample ID: Matrix Spike Duplicate								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 115061												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1220	F1	1250	2679	F1	mg/Kg		117	90 - 110	0	20	

QC Association Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 115004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Total/NA	Solid	8021B	115011
880-60774-10	BH-1 (10.0')	Total/NA	Solid	8021B	115011
880-60774-20	BH-2 (10.0')	Total/NA	Solid	8021B	115011
MB 880-115011/5-A	Method Blank	Total/NA	Solid	8021B	115011
LCS 880-115011/1-A	Lab Control Sample	Total/NA	Solid	8021B	115011
LCSD 880-115011/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115011
880-60766-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	115011
880-60766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	115011

Prep Batch: 115011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Total/NA	Solid	5035	
880-60774-10	BH-1 (10.0')	Total/NA	Solid	5035	
880-60774-20	BH-2 (10.0')	Total/NA	Solid	5035	
MB 880-115011/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115011/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115011/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-60766-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-60766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 115078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-21	BH-2 (15')	Total/NA	Solid	8021B	115079
880-60774-22	BH-2 (20')	Total/NA	Solid	8021B	115079
880-60774-32	BH-3 (10.0')	Total/NA	Solid	8021B	115079
880-60774-33	BH-3 (15')	Total/NA	Solid	8021B	115079
880-60774-34	BH-3 (20')	Total/NA	Solid	8021B	115079
880-60774-44	BH-4 (10.0')	Total/NA	Solid	8021B	115079
MB 880-115079/5-A	Method Blank	Total/NA	Solid	8021B	115079
LCS 880-115079/1-A	Lab Control Sample	Total/NA	Solid	8021B	115079
LCSD 880-115079/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115079
890-8508-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	115079
890-8508-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	115079

Prep Batch: 115079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-21	BH-2 (15')	Total/NA	Solid	5035	
880-60774-22	BH-2 (20')	Total/NA	Solid	5035	
880-60774-32	BH-3 (10.0')	Total/NA	Solid	5035	
880-60774-33	BH-3 (15')	Total/NA	Solid	5035	
880-60774-34	BH-3 (20')	Total/NA	Solid	5035	
880-60774-44	BH-4 (10.0')	Total/NA	Solid	5035	
MB 880-115079/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115079/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115079/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8508-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-8508-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 115174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 115174 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-10	BH-1 (10.0')	Total/NA	Solid	Total BTEX	
880-60774-20	BH-2 (10.0')	Total/NA	Solid	Total BTEX	
880-60774-21	BH-2 (15')	Total/NA	Solid	Total BTEX	
880-60774-22	BH-2 (20')	Total/NA	Solid	Total BTEX	
880-60774-32	BH-3 (10.0')	Total/NA	Solid	Total BTEX	
880-60774-33	BH-3 (15')	Total/NA	Solid	Total BTEX	
880-60774-34	BH-3 (20')	Total/NA	Solid	Total BTEX	
880-60774-44	BH-4 (10.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 115009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Total/NA	Solid	8015B NM	115025
880-60774-10	BH-1 (10.0')	Total/NA	Solid	8015B NM	115025
880-60774-20	BH-2 (10.0')	Total/NA	Solid	8015B NM	115025
880-60774-21	BH-2 (15')	Total/NA	Solid	8015B NM	115025
880-60774-22	BH-2 (20')	Total/NA	Solid	8015B NM	115025
880-60774-32	BH-3 (10.0')	Total/NA	Solid	8015B NM	115025
880-60774-33	BH-3 (15')	Total/NA	Solid	8015B NM	115025
880-60774-34	BH-3 (20')	Total/NA	Solid	8015B NM	115025
880-60774-44	BH-4 (10.0')	Total/NA	Solid	8015B NM	115025
MB 880-115025/1-A	Method Blank	Total/NA	Solid	8015B NM	115025
LCS 880-115025/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115025
LCSD 880-115025/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115025
880-60774-7 MS	BH-1 (7.0')	Total/NA	Solid	8015B NM	115025
880-60774-7 MSD	BH-1 (7.0')	Total/NA	Solid	8015B NM	115025

Prep Batch: 115025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Total/NA	Solid	8015NM Prep	
880-60774-10	BH-1 (10.0')	Total/NA	Solid	8015NM Prep	
880-60774-20	BH-2 (10.0')	Total/NA	Solid	8015NM Prep	
880-60774-21	BH-2 (15')	Total/NA	Solid	8015NM Prep	
880-60774-22	BH-2 (20')	Total/NA	Solid	8015NM Prep	
880-60774-32	BH-3 (10.0')	Total/NA	Solid	8015NM Prep	
880-60774-33	BH-3 (15')	Total/NA	Solid	8015NM Prep	
880-60774-34	BH-3 (20')	Total/NA	Solid	8015NM Prep	
880-60774-44	BH-4 (10.0')	Total/NA	Solid	8015NM Prep	
MB 880-115025/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115025/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-115025/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60774-7 MS	BH-1 (7.0')	Total/NA	Solid	8015NM Prep	
880-60774-7 MSD	BH-1 (7.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 115120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Total/NA	Solid	8015 NM	
880-60774-10	BH-1 (10.0')	Total/NA	Solid	8015 NM	
880-60774-20	BH-2 (10.0')	Total/NA	Solid	8015 NM	
880-60774-21	BH-2 (15')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 115120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-22	BH-2 (20')	Total/NA	Solid	8015 NM	
880-60774-32	BH-3 (10.0')	Total/NA	Solid	8015 NM	
880-60774-33	BH-3 (15')	Total/NA	Solid	8015 NM	
880-60774-34	BH-3 (20')	Total/NA	Solid	8015 NM	
880-60774-44	BH-4 (10.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Soluble	Solid	DI Leach	
880-60774-10	BH-1 (10.0')	Soluble	Solid	DI Leach	
880-60774-20	BH-2 (10.0')	Soluble	Solid	DI Leach	
880-60774-21	BH-2 (15')	Soluble	Solid	DI Leach	
880-60774-22	BH-2 (20')	Soluble	Solid	DI Leach	
880-60774-32	BH-3 (10.0')	Soluble	Solid	DI Leach	
880-60774-33	BH-3 (15')	Soluble	Solid	DI Leach	
880-60774-34	BH-3 (20')	Soluble	Solid	DI Leach	
880-60774-44	BH-4 (10.0')	Soluble	Solid	DI Leach	
MB 880-115058/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115058/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115058/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-20064-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
820-20064-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-60804-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-60804-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 115061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60774-7	BH-1 (7.0')	Soluble	Solid	300.0	115058
880-60774-10	BH-1 (10.0')	Soluble	Solid	300.0	115058
880-60774-20	BH-2 (10.0')	Soluble	Solid	300.0	115058
880-60774-21	BH-2 (15')	Soluble	Solid	300.0	115058
880-60774-22	BH-2 (20')	Soluble	Solid	300.0	115058
880-60774-32	BH-3 (10.0')	Soluble	Solid	300.0	115058
880-60774-33	BH-3 (15')	Soluble	Solid	300.0	115058
880-60774-34	BH-3 (20')	Soluble	Solid	300.0	115058
880-60774-44	BH-4 (10.0')	Soluble	Solid	300.0	115058
MB 880-115058/1-A	Method Blank	Soluble	Solid	300.0	115058
LCS 880-115058/2-A	Lab Control Sample	Soluble	Solid	300.0	115058
LCSD 880-115058/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115058
820-20064-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	115058
820-20064-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	115058
880-60804-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	115058
880-60804-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	115058

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (7.0')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115011	07/25/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115004	07/25/25 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/25/25 13:59	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 17:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 17:20	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 03:59	CS	EET MID

Client Sample ID: BH-1 (10.0')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115011	07/25/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115004	07/25/25 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/25/25 14:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 18:08	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 18:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 04:04	CS	EET MID

Client Sample ID: BH-2 (10.0')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	115011	07/25/25 10:30	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	115004	07/25/25 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/25/25 14:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 18:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 18:24	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 04:10	CS	EET MID

Client Sample ID: BH-2 (15')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	115079	07/26/25 11:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115078	07/26/25 15:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/26/25 15:03	SA	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-2 (15')

Date Collected: 07/24/25 00:00

Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-21

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			115120	07/25/25 18:40	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 18:40	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		5			115061	07/26/25 04:15	CS	EET MID

Client Sample ID: BH-2 (20')

Date Collected: 07/24/25 00:00

Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115079	07/26/25 11:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115078	07/26/25 15:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/26/25 15:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 18:56	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 18:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 04:33	CS	EET MID

Client Sample ID: BH-3 (10.0')

Date Collected: 07/24/25 00:00

Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	115079	07/26/25 11:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115078	07/26/25 15:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/26/25 15:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 19:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 19:12	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 04:38	CS	EET MID

Client Sample ID: BH-3 (15')

Date Collected: 07/24/25 00:00

Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-33

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			4.95 g	5 mL	115079	07/26/25 11:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115078	07/26/25 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/26/25 16:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 19:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 19:28	TKC	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Client Sample ID: BH-3 (15')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 04:44	CS	EET MID

Client Sample ID: BH-3 (20')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-34
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	115079	07/26/25 11:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115078	07/26/25 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/26/25 16:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 19:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 19:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 04:49	CS	EET MID

Client Sample ID: BH-4 (10.0')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60774-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	115079	07/26/25 11:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115078	07/26/25 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115174	07/26/25 16:45	SA	EET MID
Total/NA	Analysis	8015 NM		1			115120	07/25/25 19:59	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115025	07/25/25 10:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115009	07/25/25 19:59	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115058	07/25/25 15:47	SMC	EET MID
Soluble	Analysis	300.0		1			115061	07/26/25 04:55	CS	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	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: Cypher 36 State Com 1

Job ID: 880-60774-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-60774-7	BH-1 (7.0')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-10	BH-1 (10.0')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-20	BH-2 (10.0')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-21	BH-2 (15')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-22	BH-2 (20')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-32	BH-3 (10.0')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-33	BH-3 (15')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-34	BH-3 (20')	Solid	07/24/25 00:00	07/25/25 09:35
880-60774-44	BH-4 (10.0')	Solid	07/24/25 00:00	07/25/25 09:35

Chain of Custody

Work Order No: _____

Page 2 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Nathaniel Rose
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	nathaniel.rose@coterra.com & ashton.thielke@coterra.com

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

ANALYSIS REQUEST										Preservative Codes																																																																																																																																											
										None: NO	DI Water: H ₂ O																																																																																																																																										
										Cool: Cool	MeOH: Me																																																																																																																																										
										HCL: HC	HNO ₃ : HN																																																																																																																																										
										H ₂ SO ₄ : H ₂	NaOH: Na																																																																																																																																										
										H ₃ PO ₄ : HP																																																																																																																																											
										NaHSO ₄ : NABIS																																																																																																																																											
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										Zn Acetate+NaOH: Zn																																																																																																																																											
										NaOH+Ascorbic Acid: SAPC																																																																																																																																											
<table border="1"> <tr> <th>Project Name:</th> <td>Cypher 36 State Com 1 <th>Turn Around</th> <td>☐ Routine ☒ Rush <td>24 Hours <th>Pres. Code</th> <td></td> <th># of Cont</th> <td></td> <th>Grab/Comp</th> <td></td> <th>Water</th> <td></td> <th>Soil</th> <td></td> <th>Time</th> <th>Date</th> <th>Sample Identification</th> </td></td></td></tr> <tr> <td>Project Number:</td> <td>2800</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Project Location:</td> <td>Eddy Co, NM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sampler's Name:</td> <td>GPJ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PO #:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Project Name:	Cypher 36 State Com 1 <th>Turn Around</th> <td>☐ Routine ☒ Rush <td>24 Hours <th>Pres. Code</th> <td></td> <th># of Cont</th> <td></td> <th>Grab/Comp</th> <td></td> <th>Water</th> <td></td> <th>Soil</th> <td></td> <th>Time</th> <th>Date</th> <th>Sample Identification</th> </td></td>	Turn Around	☐ Routine ☒ Rush <td>24 Hours <th>Pres. Code</th> <td></td> <th># of Cont</th> <td></td> <th>Grab/Comp</th> <td></td> <th>Water</th> <td></td> <th>Soil</th> <td></td> <th>Time</th> <th>Date</th> <th>Sample Identification</th> </td>	24 Hours <th>Pres. Code</th> <td></td> <th># of Cont</th> <td></td> <th>Grab/Comp</th> <td></td> <th>Water</th> <td></td> <th>Soil</th> <td></td> <th>Time</th> <th>Date</th> <th>Sample Identification</th>	Pres. Code		# of Cont		Grab/Comp		Water		Soil		Time	Date	Sample Identification	Project Number:	2800																	Project Location:	Eddy Co, NM																	Sampler's Name:	GPJ																	PO #:																		BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0		Hold																																															
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Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Pres. Code	Parameters	Analysis Request	Preservative Codes	Sample Comments																																																																																																																																										
BH-2 (0-1.0')	7/24/2025		X		G	1					X																																																																																																																																										
BH-2 (2.0')	7/24/2025		X		G	1					X																																																																																																																																										
BH-2 (3.0')	7/24/2025		X		G	1					X																																																																																																																																										
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BH-2 (5.0')	7/24/2025		X		G	1					X																																																																																																																																										
BH-2 (6.0')	7/24/2025		X		G	1					X																																																																																																																																										
BH-2 (7.0')	7/24/2025		X		G	1					X																																																																																																																																										
BH-2 (8.0')	7/24/2025		X		G	1					X																																																																																																																																										
BH-2 (9.0')	7/24/2025		X		G	1					X																																																																																																																																										
BH-2 (10.0')	7/24/2025		X		G	1					X																																																																																																																																										

Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		7/28/25 935

Chain of Custody

Work Order No: _____

Page 3 of 5

Project Manager:	Ashton Thielke	Bill To: (if different)	Nathaniel Rose
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	nathaniel.rose@coterra.com & ashton.thielke@coterra.com

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

ANALYSIS REQUEST										Preservative Codes	
										None: NO	DI Water: H ₂ O
										Cool: Cool	MeOH: Me
										HCL: HC	HNO ₃ : HN
										H ₂ SO ₄ : H ₂	NaOH: Na
										H ₃ PO ₄ : HP	
										NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₃ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SAPC	
Hold											
Chloride 300.0											
TPH 8015M (GRO + DRO + MRO)											
BTEX 8021B											
Parameters											
Pres. Code											
# of Cont											
Grab/Comp											
Water											
Soil											
Time											
Date											
Temp Blank:											
Yes No											
Thermometer ID:											
Yes No N/A											
Correction Factor:											
Yes No N/A											
Temperature Reading:											
Corrected Temperature:											
SAMPLE RECEIPT											
Received Intact:											
Cooler Custody Seals:											
Yes No N/A											
Sample Custody Seals:											
Yes No N/A											
Total Containers:											
Sample Identification											
BH-2 (15')											
7/24/2025											
BH-2 (20')											
7/24/2025											
BH-3 (0-1.0')											
7/24/2025											
BH-3 (2.0')											
7/24/2025											
BH-3 (3.0')											
7/24/2025											
BH-3 (4.0')											
7/24/2025											
BH-3 (5.0')											
7/24/2025											
BH-3 (6.0')											
7/24/2025											
BH-3 (7.0')											
7/24/2025											
BH-3 (8.0')											
7/24/2025											

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			

1
2
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Chain of Custody

Work Order No: _____

Page 4 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Nathaniel Rose
Company Name:	Carmona Resources	Company Name:	Cumarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfeld St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	nathaniel.rose@coterra.com & ashton.thielke@coterra.com

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

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Pres. Code	Hold	Sample Comments	
										None: NO	DI Water: H ₂ O
BH-3 (9.0')	7/24/2025		X		G	1	TPH 8015M (GRO + DRO + MRO)				
BH-3 (10.0')	7/24/2025		X		G	1					
BH-3 (15')	7/24/2025		X		G	1					
BH-3 (20')	7/24/2025		X		G	1					
BH-4 (0-1.0')	7/24/2025		X		G	1					
BH-4 (2.0')	7/24/2025		X		G	1					
BH-4 (3.0')	7/24/2025		X		G	1					
BH-4 (4.0')	7/24/2025		X		G	1					
BH-4 (5.0')	7/24/2025		X		G	1					
BH-4 (6.0')	7/24/2025		X		G	1					

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			7/28/25 9:35

Chain of Custody

Work Order No: _____

Page 5 of 5

Project Manager:	Ashton Thielke	Bill to: (if different)	Nathaniel Rose
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	nathaniel.rose@coterra.com & ashton.thielke@coterra.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:	

ANALYSIS REQUEST									
Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around			Pres. Code	# of Cont
					☐ Routine	☒ Rush	Due Date:		
Cypher 36 State Com 1	2800	Eddy Co, NM	GPJ		☐ Routine	☒ Rush	24 Hours		
Temp Blank:					Yes	No	Wet Ice:	Yes	No
Received Intact:					Yes	No	Thermometer ID:		
Cooler Custody Seals:					Yes	No	N/A	Correction Factor:	
Sample Custody Seals:					Yes	No	N/A	Temperature Reading:	
Total Containers:							Corrected Temperature:		
Sample Identification	Date	Time	Soil	Water	Grab/Comp				
BH-4 (7.0')	7/24/2025		X		G 1				
BH-4 (8.0')	7/24/2025		X		G 1				
BH-4 (9.0')	7/24/2025		X		G 1				
BH-4 (10.0')	7/24/2025		X		G 1				
BTEX 8021B									
TPH 8015M (GRO + DRO + MRO)									
Chloride 300.0									
Hold									
Preservative Codes									
None: NO DI Water: H ₂ O									
Cool: Cool MeOH: Me									
HCL: HC HNO ₃ : HN									
H ₂ SO ₄ : H ₂ NaOH: Na									
H ₃ PO ₄ : HP									
NaHSO ₄ : NABIS									
Na ₂ S ₂ O ₃ : NaSO ₃									
Zn Acetate+NaOH: Zn									
NaOH+Ascorbic Acid: SAPC									
Sample Comments									

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-60774-1

SDG Number: Eddy Co, NM

Login Number: 60774

List Number: 1

Creator: Vasquez, Julisa

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 7/30/2025 10:00:37 AM

JOB DESCRIPTION

Cypher 36 State Com 1
Eddy Co, NM

JOB NUMBER

880-60773-1

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
7/30/2025 10:00:37 AM

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

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Laboratory Job ID: 880-60773-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Cypher 36 State Com 1

Job ID: 880-60773-1

Job ID: 880-60773-1

Eurofins Midland

Job Narrative 880-60773-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/25/2025 9:35 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 -3.6°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-114964 and 880-114978 and analytical batch 880-114065 was outside the upper control limits.

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

Diesel Range Organics

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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-60773-1

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:33	07/26/25 13:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:33	07/26/25 13:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:33	07/26/25 13:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/25/25 10:33	07/26/25 13:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:33	07/26/25 13:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/25/25 10:33	07/26/25 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/25/25 10:33	07/26/25 13:03	1
1,4-Difluorobenzene (Surr)	109		70 - 130	07/25/25 10:33	07/26/25 13:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/26/25 13:03	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			07/29/25 14:36	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		07/24/25 14:29	07/29/25 14:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/24/25 14:29	07/29/25 14:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/24/25 14:29	07/29/25 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	84		70 - 130	07/24/25 14:29	07/29/25 14:36	1
o-Terphenyl (Surr)	73		70 - 130	07/24/25 14:29	07/29/25 14:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		9.98		mg/Kg			07/25/25 22:36	1

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

Lab Sample ID: 880-60773-2

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:33	07/26/25 13:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:33	07/26/25 13:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:33	07/26/25 13:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/25/25 10:33	07/26/25 13:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:33	07/26/25 13:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/25/25 10:33	07/26/25 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	07/25/25 10:33	07/26/25 13:23	1
1,4-Difluorobenzene (Surr)	115		70 - 130	07/25/25 10:33	07/26/25 13:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-60773-2

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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			07/26/25 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	241		49.9		mg/Kg			07/29/25 14:53	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		07/24/25 14:29	07/29/25 14:53	1
Diesel Range Organics (Over C10-C28)	241		49.9		mg/Kg		07/24/25 14:29	07/29/25 14:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/24/25 14:29	07/29/25 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130				07/24/25 14:29	07/29/25 14:53	1
o-Terphenyl (Surr)	72		70 - 130				07/24/25 14:29	07/29/25 14:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		9.96		mg/Kg			07/25/25 22:41	1

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

Lab Sample ID: 880-60773-3

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:33	07/26/25 13:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:33	07/26/25 13:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:33	07/26/25 13:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/25/25 10:33	07/26/25 13:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/25/25 10:33	07/26/25 13:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/25/25 10:33	07/26/25 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				07/25/25 10:33	07/26/25 13:44	1
1,4-Difluorobenzene (Surr)	119		70 - 130				07/25/25 10:33	07/26/25 13:44	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			07/26/25 13:44	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			07/29/25 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/24/25 14:29	07/29/25 15:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/24/25 14:29	07/29/25 15:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-60773-3

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/24/25 14:29	07/29/25 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				07/24/25 14:29	07/29/25 15:09	1
o-Terphenyl (Surr)	71		70 - 130				07/24/25 14:29	07/29/25 15:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		10.0		mg/Kg			07/25/25 22:47	1

Client Sample ID: H-4 (0-1')

Lab Sample ID: 880-60773-4

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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		07/25/25 10:33	07/26/25 14:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:33	07/26/25 14:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:33	07/26/25 14:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/25/25 10:33	07/26/25 14:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/25/25 10:33	07/26/25 14:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/25/25 10:33	07/26/25 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				07/25/25 10:33	07/26/25 14:04	1
1,4-Difluorobenzene (Surr)	113		70 - 130				07/25/25 10:33	07/26/25 14:04	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			07/26/25 14:04	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			07/29/25 15:25	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		07/24/25 14:29	07/29/25 15:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/24/25 14:29	07/29/25 15:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/24/25 14:29	07/29/25 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	82		70 - 130				07/24/25 14:29	07/29/25 15:25	1
o-Terphenyl (Surr)	71		70 - 130				07/24/25 14:29	07/29/25 15:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		9.94		mg/Kg			07/25/25 23:04	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-60736-A-101-B MS	Matrix Spike	115	110
880-60736-A-101-C MSD	Matrix Spike Duplicate	117	117
880-60773-1	H-1 (0-1')	115	109
880-60773-2	H-2 (0-1')	126	115
880-60773-3	H-3 (0-1')	129	119
880-60773-4	H-4 (0-1')	124	113
LCS 880-114978/1-A	Lab Control Sample	104	108
LCSD 880-114978/2-A	Lab Control Sample Dup	111	104
MB 880-114964/5-A	Method Blank	160 S1+	96
MB 880-114978/5-A	Method Blank	152 S1+	98
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)
880-60736-A-95-B MS	Matrix Spike	72	70
880-60736-A-95-C MSD	Matrix Spike Duplicate	76	72
880-60773-1	H-1 (0-1')	84	73
880-60773-2	H-2 (0-1')	79	72
880-60773-3	H-3 (0-1')	81	71
880-60773-4	H-4 (0-1')	82	71
LCS 880-114957/2-A	Lab Control Sample	97	101
LCSD 880-114957/3-A	Lab Control Sample Dup	97	97
MB 880-114957/1-A	Method Blank	122	113
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114964/5-A

Matrix: Solid

Analysis Batch: 114065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:11	07/25/25 18:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:11	07/25/25 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:11	07/25/25 18:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/24/25 15:11	07/25/25 18:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:11	07/25/25 18:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/24/25 15:11	07/25/25 18:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	07/24/25 15:11	07/25/25 18:41	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/24/25 15:11	07/25/25 18:41	1

Lab Sample ID: MB 880-114978/5-A

Matrix: Solid

Analysis Batch: 114065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:25	07/26/25 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:25	07/26/25 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:25	07/26/25 06:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/24/25 15:25	07/26/25 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/24/25 15:25	07/26/25 06:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/24/25 15:25	07/26/25 06:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	07/24/25 15:25	07/26/25 06:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/24/25 15:25	07/26/25 06:18	1

Lab Sample ID: LCS 880-114978/1-A

Matrix: Solid

Analysis Batch: 114065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08492		mg/Kg		85	70 - 130
Toluene	0.100	0.08201		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08732		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08926		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-114978/2-A

Matrix: Solid

Analysis Batch: 114065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114978

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08287		mg/Kg		83	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-114978/2-A

Matrix: Solid

Analysis Batch: 114065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114978

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.07368		mg/Kg		74	70 - 130	11	35
Ethylbenzene	0.100	0.08100		mg/Kg		81	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	2	35
o-Xylene	0.100	0.09369		mg/Kg		94	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-60736-A-101-B MS

Matrix: Solid

Analysis Batch: 114065

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 114978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09707		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.08816		mg/Kg		88	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09858		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2144		mg/Kg		107	70 - 130
o-Xylene	<0.00200	U	0.100	0.1098		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-60736-A-101-C MSD

Matrix: Solid

Analysis Batch: 114065

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 114978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09859		mg/Kg		99	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.08076		mg/Kg		81	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.100	0.09294		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1999		mg/Kg		100	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130	4	35

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

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

Lab Sample ID: MB 880-114957/1-A

Matrix: Solid

Analysis Batch: 115274

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114957

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		07/24/25 14:29	07/29/25 05:32	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-114957/1-A

Matrix: Solid

Analysis Batch: 115274

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 114957

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		07/24/25 14:29	07/29/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/24/25 14:29	07/29/25 05:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130				07/24/25 14:29	07/29/25 05:32	1
o-Terphenyl (Surr)	113		70 - 130				07/24/25 14:29	07/29/25 05:32	1

Lab Sample ID: LCS 880-114957/2-A

Matrix: Solid

Analysis Batch: 115274

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	979.8		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	960.0		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	97		70 - 130				
o-Terphenyl (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-114957/3-A

Matrix: Solid

Analysis Batch: 115274

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 114957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	990.3		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	965.1		mg/Kg		97	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	97		70 - 130						
o-Terphenyl (Surr)	97		70 - 130						

Lab Sample ID: 880-60736-A-95-B MS

Matrix: Solid

Analysis Batch: 115274

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 114957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	805.3		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	804.2		mg/Kg		81	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	72		70 - 130						
o-Terphenyl (Surr)	70		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-60736-A-95-C MSD

Matrix: Solid

Analysis Batch: 115274

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 114957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	834.7		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	826.7		mg/Kg		83	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	76		70 - 130								
o-Terphenyl (Surr)	72		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115035/1-A

Matrix: Solid

Analysis Batch: 115044

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/25/25 21:11	1

Lab Sample ID: LCS 880-115035/2-A

Matrix: Solid

Analysis Batch: 115044

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-115035/3-A

Matrix: Solid

Analysis Batch: 115044

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-60773-3 MS

Matrix: Solid

Analysis Batch: 115044

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.4		251	269.7		mg/Kg		103	90 - 110

Lab Sample ID: 880-60773-3 MSD

Matrix: Solid

Analysis Batch: 115044

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.4		251	270.1		mg/Kg		103	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 114065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Total/NA	Solid	8021B	114978
880-60773-2	H-2 (0-1')	Total/NA	Solid	8021B	114978
880-60773-3	H-3 (0-1')	Total/NA	Solid	8021B	114978
880-60773-4	H-4 (0-1')	Total/NA	Solid	8021B	114978
MB 880-114964/5-A	Method Blank	Total/NA	Solid	8021B	114964
MB 880-114978/5-A	Method Blank	Total/NA	Solid	8021B	114978
LCS 880-114978/1-A	Lab Control Sample	Total/NA	Solid	8021B	114978
LCSD 880-114978/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	114978
880-60736-A-101-B MS	Matrix Spike	Total/NA	Solid	8021B	114978
880-60736-A-101-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	114978

Prep Batch: 114964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-114964/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 114978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Total/NA	Solid	5035	
880-60773-2	H-2 (0-1')	Total/NA	Solid	5035	
880-60773-3	H-3 (0-1')	Total/NA	Solid	5035	
880-60773-4	H-4 (0-1')	Total/NA	Solid	5035	
MB 880-114978/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-114978/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-114978/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-60736-A-101-B MS	Matrix Spike	Total/NA	Solid	5035	
880-60736-A-101-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 115235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
880-60773-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
880-60773-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
880-60773-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 114957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-60773-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-60773-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-60773-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-114957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-114957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-114957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60736-A-95-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-60736-A-95-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 115274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Total/NA	Solid	8015B NM	114957

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QC Association Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 115274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-2	H-2 (0-1')	Total/NA	Solid	8015B NM	114957
880-60773-3	H-3 (0-1')	Total/NA	Solid	8015B NM	114957
880-60773-4	H-4 (0-1')	Total/NA	Solid	8015B NM	114957
MB 880-114957/1-A	Method Blank	Total/NA	Solid	8015B NM	114957
LCS 880-114957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	114957
LCSD 880-114957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	114957
880-60736-A-95-B MS	Matrix Spike	Total/NA	Solid	8015B NM	114957
880-60736-A-95-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	114957

Analysis Batch: 115376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
880-60773-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
880-60773-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
880-60773-4	H-4 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Soluble	Solid	DI Leach	
880-60773-2	H-2 (0-1')	Soluble	Solid	DI Leach	
880-60773-3	H-3 (0-1')	Soluble	Solid	DI Leach	
880-60773-4	H-4 (0-1')	Soluble	Solid	DI Leach	
MB 880-115035/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115035/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115035/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60773-3 MS	H-3 (0-1')	Soluble	Solid	DI Leach	
880-60773-3 MSD	H-3 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 115044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60773-1	H-1 (0-1')	Soluble	Solid	300.0	115035
880-60773-2	H-2 (0-1')	Soluble	Solid	300.0	115035
880-60773-3	H-3 (0-1')	Soluble	Solid	300.0	115035
880-60773-4	H-4 (0-1')	Soluble	Solid	300.0	115035
MB 880-115035/1-A	Method Blank	Soluble	Solid	300.0	115035
LCS 880-115035/2-A	Lab Control Sample	Soluble	Solid	300.0	115035
LCSD 880-115035/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115035
880-60773-3 MS	H-3 (0-1')	Soluble	Solid	300.0	115035
880-60773-3 MSD	H-3 (0-1')	Soluble	Solid	300.0	115035

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-60773-1

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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	114978	07/25/25 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114065	07/26/25 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115235	07/26/25 13:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			115376	07/29/25 14:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114957	07/24/25 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 14:36	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115035	07/25/25 11:05	SA	EET MID
Soluble	Analysis	300.0		1			115044	07/25/25 22:36	CS	EET MID

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

Lab Sample ID: 880-60773-2

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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	114978	07/25/25 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114065	07/26/25 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115235	07/26/25 13:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			115376	07/29/25 14:53	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	114957	07/24/25 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 14:53	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	115035	07/25/25 11:05	SA	EET MID
Soluble	Analysis	300.0		1			115044	07/25/25 22:41	CS	EET MID

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

Lab Sample ID: 880-60773-3

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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	114978	07/25/25 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114065	07/26/25 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115235	07/26/25 13:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			115376	07/29/25 15:09	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	114957	07/24/25 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 15:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	115035	07/25/25 11:05	SA	EET MID
Soluble	Analysis	300.0		1			115044	07/25/25 22:47	CS	EET MID

Client Sample ID: H-4 (0-1')

Lab Sample ID: 880-60773-4

Date Collected: 07/24/25 00:00

Matrix: Solid

Date Received: 07/25/25 09:35

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	114978	07/25/25 10:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	114065	07/26/25 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115235	07/26/25 14:04	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-1')
Date Collected: 07/24/25 00:00
Date Received: 07/25/25 09:35

Lab Sample ID: 880-60773-4
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			115376	07/29/25 15:25	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	114957	07/24/25 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 15:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	115035	07/25/25 11:05	SA	EET MID
Soluble	Analysis	300.0		1			115044	07/25/25 23:04	CS	EET MID

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: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	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: Cypher 36 State Com 1

Job ID: 880-60773-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-60773-1	H-1 (0-1')	Solid	07/24/25 00:00	07/25/25 09:35
880-60773-2	H-2 (0-1')	Solid	07/24/25 00:00	07/25/25 09:35
880-60773-3	H-3 (0-1')	Solid	07/24/25 00:00	07/25/25 09:35
880-60773-4	H-4 (0-1')	Solid	07/24/25 00:00	07/25/25 09:35

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Chain of Custody



880-60773 Chain of Custody

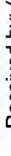
Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Nathaniel Rose
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marientfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	nathaniel.rose@coterra.com & ashton.thielke@coterra.com

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

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			7/5/05 935

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-60773-1

SDG Number: Eddy Co, NM

Login Number: 60773

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 8/18/2025 2:48:14 PM

JOB DESCRIPTION

Cypher 36 State Com 1
Eddy Co NM

JOB NUMBER

880-61562-1

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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8/18/2025 2:48:14 PM

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

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Laboratory Job ID: 880-61562-1
SDG: Eddy Co NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Cypher 36 State Com 1

Job ID: 880-61562-1

Job ID: 880-61562-1

Eurofins Midland

Job Narrative 880-61562-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/15/2025 4:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

GC VOA

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

Diesel Range Organics

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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Client Sample ID: SW-1 (5.0')

Lab Sample ID: 880-61562-1

Date Collected: 08/15/25 00:00

Matrix: Solid

Date Received: 08/15/25 16:36

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		08/18/25 07:54	08/18/25 11:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 11:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 11:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/18/25 07:54	08/18/25 11:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 11:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/18/25 07:54	08/18/25 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/18/25 07:54	08/18/25 11:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/18/25 07:54	08/18/25 11:37	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			08/18/25 11:37	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			08/18/25 13:06	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		08/17/25 17:35	08/18/25 13:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/17/25 17:35	08/18/25 13:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/17/25 17:35	08/18/25 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	73		70 - 130	08/17/25 17:35	08/18/25 13:06	1
o-Terphenyl (Surr)	73		70 - 130	08/17/25 17:35	08/18/25 13:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.5		9.98		mg/Kg			08/18/25 10:18	1

Client Sample ID: SW-2 (5.0')

Lab Sample ID: 880-61562-2

Date Collected: 08/15/25 00:00

Matrix: Solid

Date Received: 08/15/25 16:36

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		08/18/25 07:54	08/18/25 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 13:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/18/25 07:54	08/18/25 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 13:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/18/25 07:54	08/18/25 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/18/25 07:54	08/18/25 13:19	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/18/25 07:54	08/18/25 13:19	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Client Sample ID: SW-2 (5.0')

Lab Sample ID: 880-61562-2

Date Collected: 08/15/25 00:00

Matrix: Solid

Date Received: 08/15/25 16:36

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			08/18/25 13:19	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			08/18/25 13:21	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		08/17/25 17:35	08/18/25 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/17/25 17:35	08/18/25 13:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/17/25 17:35	08/18/25 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130				08/17/25 17:35	08/18/25 13:21	1
o-Terphenyl (Surr)	78		70 - 130				08/17/25 17:35	08/18/25 13:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.4		10.0		mg/Kg			08/18/25 10:23	1

Client Sample ID: SW-3 (5.0')

Lab Sample ID: 880-61562-3

Date Collected: 08/15/25 00:00

Matrix: Solid

Date Received: 08/15/25 16:36

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		08/18/25 07:54	08/18/25 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 13:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/18/25 07:54	08/18/25 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 13:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/18/25 07:54	08/18/25 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/18/25 07:54	08/18/25 13:40	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/18/25 07:54	08/18/25 13:40	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			08/18/25 13:40	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			08/18/25 13:38	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		08/17/25 17:35	08/18/25 13:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/17/25 17:35	08/18/25 13:38	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Client Sample ID: SW-3 (5.0')

Lab Sample ID: 880-61562-3

Date Collected: 08/15/25 00:00

Matrix: Solid

Date Received: 08/15/25 16:36

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		08/17/25 17:35	08/18/25 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	75		70 - 130				08/17/25 17:35	08/18/25 13:38	1
o-Terphenyl (Surr)	73		70 - 130				08/17/25 17:35	08/18/25 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.9		10.1		mg/Kg			08/18/25 10:29	1

Client Sample ID: SW-4 (5.0')

Lab Sample ID: 880-61562-4

Date Collected: 08/15/25 00:00

Matrix: Solid

Date Received: 08/15/25 16:36

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		08/18/25 07:54	08/18/25 14:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/18/25 07:54	08/18/25 14:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/18/25 07:54	08/18/25 14:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/18/25 07:54	08/18/25 14:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/18/25 07:54	08/18/25 14:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/18/25 07:54	08/18/25 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/18/25 07:54	08/18/25 14:00	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/18/25 07:54	08/18/25 14:00	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			08/18/25 14:00	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			08/18/25 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/17/25 17:35	08/18/25 14:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/17/25 17:35	08/18/25 14:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/17/25 17:35	08/18/25 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	76		70 - 130				08/17/25 17:35	08/18/25 14:09	1
o-Terphenyl (Surr)	74		70 - 130				08/17/25 17:35	08/18/25 14:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		10.1		mg/Kg			08/18/25 10:35	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-61562-1	SW-1 (5.0')	111	88
880-61562-1 MS	SW-1 (5.0')	124	92
880-61562-1 MSD	SW-1 (5.0')	115	94
880-61562-2	SW-2 (5.0')	108	89
880-61562-3	SW-3 (5.0')	112	90
880-61562-4	SW-4 (5.0')	106	86
LCS 880-116868/1-A	Lab Control Sample	110	93
LCSD 880-116868/2-A	Lab Control Sample Dup	119	90
MB 880-116868/5-A	Method Blank	106	83
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)
880-61562-1	SW-1 (5.0')	73	73
880-61562-2	SW-2 (5.0')	79	78
880-61562-3	SW-3 (5.0')	75	73
880-61562-4	SW-4 (5.0')	76	74
890-8631-A-1-D MS	Matrix Spike	73	77
890-8631-A-1-E MSD	Matrix Spike Duplicate	72	77
LCS 880-116866/2-A	Lab Control Sample	74	82
LCSD 880-116866/3-A	Lab Control Sample Dup	93	81
MB 880-116866/1-A	Method Blank	79	81
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116868/5-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/25 07:54	08/18/25 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/25 07:54	08/18/25 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/18/25 07:54	08/18/25 11:16	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/18/25 07:54	08/18/25 11:16	1

Lab Sample ID: LCS 880-116868/1-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1082		mg/Kg		108	70 - 130
Toluene	0.100	0.1043		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1187		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2346		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1154		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-116868/2-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1062		mg/Kg		106	70 - 130	2	35
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	2	35
Ethylbenzene	0.100	0.1157		mg/Kg		116	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2281		mg/Kg		114	70 - 130	3	35
o-Xylene	0.100	0.1125		mg/Kg		112	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-61562-1 MS

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: SW-1 (5.0')

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.100	0.09287		mg/Kg		93	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

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

Lab Sample ID: 880-61562-1 MS

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: SW-1 (5.0')

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1035		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2022		mg/Kg		101	70 - 130
o-Xylene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-61562-1 MSD

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: SW-1 (5.0')

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08015		mg/Kg		80	70 - 130	23	35
Toluene	<0.00200	U	0.100	0.07371		mg/Kg		74	70 - 130	23	35
Ethylbenzene	<0.00200	U	0.100	0.08411		mg/Kg		84	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1643		mg/Kg		82	70 - 130	21	35
o-Xylene	<0.00200	U	0.100	0.08391		mg/Kg		84	70 - 130	19	35

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

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

Lab Sample ID: MB 880-116866/1-A

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116866

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		08/17/25 17:35	08/18/25 09:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/17/25 17:35	08/18/25 09:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/17/25 17:35	08/18/25 09:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	79		70 - 130	08/17/25 17:35	08/18/25 09:20	1
o-Terphenyl (Surr)	81		70 - 130	08/17/25 17:35	08/18/25 09:20	1

Lab Sample ID: LCS 880-116866/2-A

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1059		mg/Kg		106	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-116866/2-A

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116866

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	74		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-116866/3-A

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116866

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1101		mg/Kg		110	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1012		mg/Kg		101	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	93		70 - 130
o-Terphenyl (Surr)	81		70 - 130

Lab Sample ID: 890-8631-A-1-D MS

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	956.7		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	976.5		mg/Kg		95	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	73		70 - 130
o-Terphenyl (Surr)	77		70 - 130

Lab Sample ID: 890-8631-A-1-E MSD

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	965.1		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	995.9		mg/Kg		97	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	72		70 - 130
o-Terphenyl (Surr)	77		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116836/1-A

Matrix: Solid

Analysis Batch: 116875

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			08/18/25 08:58	1

Lab Sample ID: LCS 880-116836/2-A

Matrix: Solid

Analysis Batch: 116875

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-116836/3-A

Matrix: Solid

Analysis Batch: 116875

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	238.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-61562-4 MS

Matrix: Solid

Analysis Batch: 116875

Client Sample ID: SW-4 (5.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	48.4		252	292.0		mg/Kg		97	90 - 110

Lab Sample ID: 880-61562-4 MSD

Matrix: Solid

Analysis Batch: 116875

Client Sample ID: SW-4 (5.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	48.4		252	292.3		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

GC VOA

Prep Batch: 116868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Total/NA	Solid	5035	
880-61562-2	SW-2 (5.0')	Total/NA	Solid	5035	
880-61562-3	SW-3 (5.0')	Total/NA	Solid	5035	
880-61562-4	SW-4 (5.0')	Total/NA	Solid	5035	
MB 880-116868/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116868/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116868/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61562-1 MS	SW-1 (5.0')	Total/NA	Solid	5035	
880-61562-1 MSD	SW-1 (5.0')	Total/NA	Solid	5035	

Analysis Batch: 116870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Total/NA	Solid	8021B	116868
880-61562-2	SW-2 (5.0')	Total/NA	Solid	8021B	116868
880-61562-3	SW-3 (5.0')	Total/NA	Solid	8021B	116868
880-61562-4	SW-4 (5.0')	Total/NA	Solid	8021B	116868
MB 880-116868/5-A	Method Blank	Total/NA	Solid	8021B	116868
LCS 880-116868/1-A	Lab Control Sample	Total/NA	Solid	8021B	116868
LCSD 880-116868/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116868
880-61562-1 MS	SW-1 (5.0')	Total/NA	Solid	8021B	116868
880-61562-1 MSD	SW-1 (5.0')	Total/NA	Solid	8021B	116868

Analysis Batch: 116973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Total/NA	Solid	Total BTEX	
880-61562-2	SW-2 (5.0')	Total/NA	Solid	Total BTEX	
880-61562-3	SW-3 (5.0')	Total/NA	Solid	Total BTEX	
880-61562-4	SW-4 (5.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Total/NA	Solid	8015NM Prep	
880-61562-2	SW-2 (5.0')	Total/NA	Solid	8015NM Prep	
880-61562-3	SW-3 (5.0')	Total/NA	Solid	8015NM Prep	
880-61562-4	SW-4 (5.0')	Total/NA	Solid	8015NM Prep	
MB 880-116866/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116866/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8631-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8631-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Total/NA	Solid	8015B NM	116866
880-61562-2	SW-2 (5.0')	Total/NA	Solid	8015B NM	116866
880-61562-3	SW-3 (5.0')	Total/NA	Solid	8015B NM	116866
880-61562-4	SW-4 (5.0')	Total/NA	Solid	8015B NM	116866
MB 880-116866/1-A	Method Blank	Total/NA	Solid	8015B NM	116866
LCS 880-116866/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116866

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QC Association Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

GC Semi VOA (Continued)

Analysis Batch: 116927 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-116866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116866
890-8631-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	116866
890-8631-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116866

Analysis Batch: 116972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Total/NA	Solid	8015 NM	
880-61562-2	SW-2 (5.0')	Total/NA	Solid	8015 NM	
880-61562-3	SW-3 (5.0')	Total/NA	Solid	8015 NM	
880-61562-4	SW-4 (5.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Soluble	Solid	DI Leach	
880-61562-2	SW-2 (5.0')	Soluble	Solid	DI Leach	
880-61562-3	SW-3 (5.0')	Soluble	Solid	DI Leach	
880-61562-4	SW-4 (5.0')	Soluble	Solid	DI Leach	
MB 880-116836/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116836/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116836/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61562-4 MS	SW-4 (5.0')	Soluble	Solid	DI Leach	
880-61562-4 MSD	SW-4 (5.0')	Soluble	Solid	DI Leach	

Analysis Batch: 116875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61562-1	SW-1 (5.0')	Soluble	Solid	300.0	116836
880-61562-2	SW-2 (5.0')	Soluble	Solid	300.0	116836
880-61562-3	SW-3 (5.0')	Soluble	Solid	300.0	116836
880-61562-4	SW-4 (5.0')	Soluble	Solid	300.0	116836
MB 880-116836/1-A	Method Blank	Soluble	Solid	300.0	116836
LCS 880-116836/2-A	Lab Control Sample	Soluble	Solid	300.0	116836
LCSD 880-116836/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116836
880-61562-4 MS	SW-4 (5.0')	Soluble	Solid	300.0	116836
880-61562-4 MSD	SW-4 (5.0')	Soluble	Solid	300.0	116836

Lab Chronicle

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Client Sample ID: SW-1 (5.0')
Date Collected: 08/15/25 00:00
Date Received: 08/15/25 16:36

Lab Sample ID: 880-61562-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	116868	08/18/25 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 11:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116973	08/18/25 11:37	SA	EET MID
Total/NA	Analysis	8015 NM		1			116972	08/18/25 13:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116866	08/17/25 17:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 13:06	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116836	08/16/25 10:34	SMC	EET MID
Soluble	Analysis	300.0		1			116875	08/18/25 10:18	SMC	EET MID

Client Sample ID: SW-2 (5.0')
Date Collected: 08/15/25 00:00
Date Received: 08/15/25 16:36

Lab Sample ID: 880-61562-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	116868	08/18/25 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116973	08/18/25 13:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			116972	08/18/25 13:21	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116866	08/17/25 17:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 13:21	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116836	08/16/25 10:34	SMC	EET MID
Soluble	Analysis	300.0		1			116875	08/18/25 10:23	SMC	EET MID

Client Sample ID: SW-3 (5.0')
Date Collected: 08/15/25 00:00
Date Received: 08/15/25 16:36

Lab Sample ID: 880-61562-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	116868	08/18/25 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116973	08/18/25 13:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			116972	08/18/25 13:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116866	08/17/25 17:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 13:38	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116836	08/16/25 10:34	SMC	EET MID
Soluble	Analysis	300.0		1			116875	08/18/25 10:29	SMC	EET MID

Client Sample ID: SW-4 (5.0')
Date Collected: 08/15/25 00:00
Date Received: 08/15/25 16:36

Lab Sample ID: 880-61562-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116868	08/18/25 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116973	08/18/25 14:00	SA	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Client Sample ID: SW-4 (5.0')
Date Collected: 08/15/25 00:00
Date Received: 08/15/25 16:36

Lab Sample ID: 880-61562-4
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			116972	08/18/25 14:09	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116866	08/17/25 17:35	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 14:09	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116836	08/16/25 10:34	SMC	EET MID
Soluble	Analysis	300.0		1			116875	08/18/25 10:35	SMC	EET MID

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: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	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: Cypher 36 State Com 1

Job ID: 880-61562-1
SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
880-61562-1	SW-1 (5.0')	Solid	08/15/25 00:00	08/15/25 16:36	Texas
880-61562-2	SW-2 (5.0')	Solid	08/15/25 00:00	08/15/25 16:36	Texas
880-61562-3	SW-3 (5.0')	Solid	08/15/25 00:00	08/15/25 16:36	Texas
880-61562-4	SW-4 (5.0')	Solid	08/15/25 00:00	08/15/25 16:36	Texas

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Chain of Custody



880-61562 Chain of Custody

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Lug
Company Name:	Carmona Resources	Company Name:	Cinmarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marnefield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.lug@coteria.com & ashton.thielke@coteria.com

Work Order Comments	
Program: UST/PST ☐ PRR ☐ brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

[illegible]

Comments:

Comments:	
Relinquished by: (Signature)	Date/Time
	
Received by: (Signature)	Date/Time
	8.15.28
	1036

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-61562-1

SDG Number: Eddy Co NM

Login Number: 61562

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



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

August 22, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: CYPHER 36 STATE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 08/20/25 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (12.0') (H255183-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	227	114	200	3.13	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	231	115	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (12.0') (H255183-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31	
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/21/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	227	114	200	3.13	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	231	115	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (12.0') (H255183-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31	
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/21/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	227	114	200	3.13	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	231	115	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 1 (5.0') (H255183-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31	
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	227	114	200	3.13	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	231	115	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (5.0') (H255183-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	227	114	200	3.13	
DRO >C10-C28*	16.9	10.0	08/20/2025	ND	231	115	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.3 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 3 (5.0') (H255183-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	227	114	200	3.13	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	231	115	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (5.0') (H255183-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31	
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/21/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	209	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	201	101	200	0.310	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5 (5.0') (H255183-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/21/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	209	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	201	101	200	0.310	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 6 (12.0') (H255183-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/21/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	209	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	201	101	200	0.310	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (8.0') (H255183-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/21/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	209	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	201	101	200	0.310	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 8 (8.0') (H255183-11)

BTEX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/21/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	209	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	201	101	200	0.310	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/20/2025
 Reported: 08/22/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 9 (8.0') (H255183-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.4	2.00	1.31		
Toluene*	<0.050	0.050	08/21/2025	ND	1.89	94.4	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.89	94.3	2.00	1.48		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.58	93.1	6.00	1.64		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/21/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	209	105	200	2.01	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	201	101	200	0.310	
EXT DRO >C28-C36	<10.0	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

485518

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Mainfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

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

Project Name:	Cypher 36 State Com 1	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes							
Project Number:	2800	☐ Routine ☒ Rush															None: NO	DI Water: H ₂ O					
Project Location:	Eddy Co, NM	Due Date:	48 Hours														Cool: Cool	MeOH: Me					
Sampler's Name:	JDC																HCL: HC	HNO ₃ : HN					
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na					
SAMPLE RECEIPT				Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐													Hold			
Received Inact:	Yes ☒ No ☐	Thermometer ID:	#140													NaHSO ₄ : NABIS							
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	+0.3°C													Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	4.4°C													Zn Acetate+NaOH: Zn							
Total Containers:		Corrected Temperature:	4.4°C													NaOH+Ascorbic Acid: SAPC							

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH												Sample Comments
SW-5 (12.0')	8/19/2025		X		Comp	1	X	X	X										
SW-6 (12.0'	8/19/2025		X		Comp	1	X	X	X	X									
SW-7 (12.0')	8/19/2025		X		Comp	1	X	X	X	X									
CS-1 (5.0')	8/19/2025		X		Comp	1	X	X	X	X									
CS-2 (5.0')	8/19/2025		X		Comp	1	X	X	X	X									
CS-3 (5.0')	8/19/2025		X		Comp	1	X	X	X	X									
CS-4 (5.0')	8/19/2025		X		Comp	1	X	X	X	X									
CS-5 (5.0')	8/19/2025		X		Comp	1	X	X	X	X									
CS-6 (12.0')	8/19/2025		X		Comp	1	X	X	X	X									
CS-7 (8.0')	8/19/2025		X		Comp	1	X	X	X	X									

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Chain of Custody

Work Order No:

1125

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Mainfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

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

Project Name:	Cypher 36 State Com 1	Turn Around	☐ Routine ☒ Rush	Due Date:	48 Hours	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2800																	None: NO	DI Water: H ₂ O		
Project Location:	Eddy Co, NM																	Cool: Cool	MeOH: Me		
Sampler's Name:	JDC																	HCL: HC	HNO ₃ : HN		
PO #:																		H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	Thermometer ID:	#140	Parameters												Hold	
Received In tact:	Yes ☒ No ☐	Correction Factor:	+0.3°C																		
Cooler Custody Seals:	Yes ☒ No ☐	Temperature Reading:	4.1°C																		
Sample Custody Seals:	Yes ☒ No ☐	Corrected Temperature:	4.4°C																		
Total Containers:																					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
CS-8 (8.0')	8/19/2025		X		Comp	1	X	X	X	X											
CS-9 (8.0')	8/19/2025		X		Comp	1	X	X	X	X											
CS-10 (8.0')	8/19/2025		X		Comp	1	X	X	X	X											
CS-11 (8.0')	8/19/2025		X		Comp	1	X	X	X	X											

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/20/25 11:25		

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

August 27, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: CYPHER 36 STATE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 08/21/25 16:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-10 (8.0')	H255239-01	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-11 (8.0')	H255239-02	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-12 (18')	H255239-03	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-13 (18')	H255239-04	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-14 (12')	H255239-05	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-15 (12')	H255239-06	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-16 (12')	H255239-07	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-17 (12')	H255239-08	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-18 (8.0')	H255239-09	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-19 (12')	H255239-10	Soil	21-Aug-25 00:00	21-Aug-25 16:14
CS-20 (18')	H255239-11	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 8 (5.0'-12')	H255239-12	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 9 (5.0'-12')	H255239-13	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 10 (12')	H255239-14	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 11 (12'-18')	H255239-15	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 12 (8'-12')	H255239-16	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 13 (8.0')	H255239-17	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 14 (8.0')	H255239-18	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 15 (8.0')	H255239-19	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 16 (8.0')	H255239-20	Soil	21-Aug-25 00:00	21-Aug-25 16:14
SW - 17 (8.0')	H255239-21	Soil	21-Aug-25 00:00	21-Aug-25 16:14

08/27/25 - Client changed the sample ID on -10 and -16 (see COC). This is the revised report and will replace the one sent on 08/25/25.

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-10 (8.0')
H255239-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	5082502	KH	25-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134 5082201 JH 22-Aug-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane 88.5 % 44.4-145 5082212 MS 22-Aug-25 8015B

Surrogate: 1-Chlorooctadecane 90.2 % 40.6-153 5082212 MS 22-Aug-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-11 (8.0')
H255239-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.5 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.5 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-12 (18")
H255239-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.5 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.3 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.8 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-13 (18")
H255239-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.8 %	71.5-134		5082201	JH	22-Aug-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
Surrogate: 1-Chlorooctane			103 %	44.4-145		5082212	MS	22-Aug-25	8015B	
Surrogate: 1-Chlorooctadecane			100 %	40.6-153		5082212	MS	22-Aug-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-14 (12')
H255239-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.1 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.4 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.6 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-15 (12)
H255239-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134 5082201 JH 22-Aug-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane 86.2 % 44.4-145 5082212 MS 22-Aug-25 8015B

Surrogate: 1-Chlorooctadecane 82.8 % 40.6-153 5082212 MS 22-Aug-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-16 (12')
H255239-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.7 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.1 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-17 (12')
H255239-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane			97.1 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.6 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-18 (8.0')
H255239-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	480		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.4 %		71.5-134	5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.9 %		44.4-145	5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.2 %		40.6-153	5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-19 (12')
H255239-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.7 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.4 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.5 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

CS-20 (18")
H255239-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.1 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.6 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.6 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 8 (5.0'-12')**H255239-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	98.7 %	71.5-134	5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane	106 %	44.4-145	5082212	MS	22-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane	103 %	40.6-153	5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 9 (5.0'-12')**H255239-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.6 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	12.3		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane			89.1 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			86.6 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 10 (12')**H255239-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane			91.3 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			88.9 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW -11 (12'-18')**H255239-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane			99.2 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			98.9 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 12 (8'-12')**H255239-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.5 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.7 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 13 (8.0')**H255239-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.8 %	71.5-134		5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	13.9		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane			94.9 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			93.7 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 14 (8.0')**H255239-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	22-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.3 %		71.5-134	5082201	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.8 %		44.4-145	5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.6 %		40.6-153	5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 15 (8.0')**H255239-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	23-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.8 %		71.5-134	5082201	JH	23-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.6 %		44.4-145	5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.3 %		40.6-153	5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 16 (8.0')**H255239-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082201	JH	23-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082201	JH	23-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %	71.5-134		5082201	JH	23-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
DRO >C10-C28*	14.2		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082212	MS	22-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %	44.4-145		5082212	MS	22-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	40.6-153		5082212	MS	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

SW - 17 (8.0')**H255239-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5082234	HM	22-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5082202	JH	22-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5082202	JH	22-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5082202	JH	22-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5082202	JH	22-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5082202	JH	22-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		5082202	JH	22-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5082213	ms	22-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5082213	ms	22-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5082213	ms	22-Aug-25	8015B	

Surrogate: 1-Chlorooctane			72.6 %	44.4-145		5082213	ms	22-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			73.7 %	40.6-153		5082213	ms	22-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5082234 - 1:4 DI Water**Blank (5082234-BLK1)**

Prepared & Analyzed: 22-Aug-25

Chloride	ND	16.0	mg/kg						
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LCS (5082234-BS1)

Prepared & Analyzed: 22-Aug-25

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (5082234-BSD1)

Prepared & Analyzed: 22-Aug-25

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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Batch 5082502 - 1:4 DI Water**Blank (5082502-BLK1)**

Prepared & Analyzed: 25-Aug-25

Chloride	ND	16.0	mg/kg						
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LCS (5082502-BS1)

Prepared & Analyzed: 25-Aug-25

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (5082502-BSD1)

Prepared & Analyzed: 25-Aug-25

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5082201 - Volatiles**Blank (5082201-BLK1)**

Prepared & Analyzed: 22-Aug-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			

LCS (5082201-BS1)

Prepared & Analyzed: 22-Aug-25

Benzene	1.53	0.050	mg/kg	2.00		76.5	76.3-129			BS-3
Toluene	1.65	0.050	mg/kg	2.00		82.3	84.1-129			
Ethylbenzene	1.69	0.050	mg/kg	2.00		84.4	80.1-133			
m,p-Xylene	3.44	0.100	mg/kg	4.00		86.0	81.4-134			
o-Xylene	1.71	0.050	mg/kg	2.00		85.3	81.4-133			
Total Xylenes	5.14	0.150	mg/kg	6.00		85.7	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500		95.3	71.5-134			

LCS Dup (5082201-BSD1)

Prepared & Analyzed: 22-Aug-25

Benzene	1.70	0.050	mg/kg	2.00		84.9	76.3-129	10.4	15.8	
Toluene	1.78	0.050	mg/kg	2.00		89.2	84.1-129	8.05	15.9	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.5	80.1-133	8.07	16	
m,p-Xylene	3.73	0.100	mg/kg	4.00		93.3	81.4-134	8.22	16.2	
o-Xylene	1.86	0.050	mg/kg	2.00		92.9	81.4-133	8.51	16.7	
Total Xylenes	5.59	0.150	mg/kg	6.00		93.2	81.5-134	8.31	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.7	71.5-134			

Batch 5082202 - Volatiles**Blank (5082202-BLK1)**

Prepared & Analyzed: 22-Aug-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5082202 - Volatiles**Blank (5082202-BLK1)**

Prepared & Analyzed: 22-Aug-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0544		mg/kg	0.0500		109	71.5-134			

LCS (5082202-BS1)

Prepared & Analyzed: 22-Aug-25

Benzene	1.61	0.050	mg/kg	2.00		80.3	76.3-129			
Toluene	1.80	0.050	mg/kg	2.00		90.0	84.1-129			
Ethylbenzene	1.86	0.050	mg/kg	2.00		93.1	80.1-133			
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.7	81.4-134			
o-Xylene	1.94	0.050	mg/kg	2.00		97.0	81.4-133			
Total Xylenes	5.81	0.150	mg/kg	6.00		96.8	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0518		mg/kg	0.0500		104	71.5-134			

LCS Dup (5082202-BS1)

Prepared & Analyzed: 22-Aug-25

Benzene	1.60	0.050	mg/kg	2.00		79.9	76.3-129	0.485	15.8	
Toluene	1.76	0.050	mg/kg	2.00		87.9	84.1-129	2.38	15.9	
Ethylbenzene	1.74	0.050	mg/kg	2.00		87.0	80.1-133	6.76	16	
m,p-Xylene	3.61	0.100	mg/kg	4.00		90.2	81.4-134	6.98	16.2	
o-Xylene	1.80	0.050	mg/kg	2.00		89.8	81.4-133	7.75	16.7	
Total Xylenes	5.40	0.150	mg/kg	6.00		90.0	81.5-134	7.24	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0475		mg/kg	0.0500		95.1	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5082212 - General Prep - Organics**Blank (5082212-BLK1)**

Prepared & Analyzed: 22-Aug-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.9	44.4-145			
Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0		93.5	40.6-153			

LCS (5082212-BS1)

Prepared & Analyzed: 22-Aug-25

GRO C6-C10	192	10.0	mg/kg	200		95.9	81.5-123			
DRO >C10-C28	214	10.0	mg/kg	200		107	77.7-122			
Total TPH C6-C28	406	10.0	mg/kg	400		101	80.9-121			
Surrogate: 1-Chlorooctane	55.6		mg/kg	50.0		111	44.4-145			
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	40.6-153			

LCS Dup (5082212-BS1)

Prepared & Analyzed: 22-Aug-25

GRO C6-C10	194	10.0	mg/kg	200		96.8	81.5-123	0.900	13	
DRO >C10-C28	213	10.0	mg/kg	200		106	77.7-122	0.465	15.6	
Total TPH C6-C28	406	10.0	mg/kg	400		102	80.9-121	0.182	18.5	
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0		112	44.4-145			
Surrogate: 1-Chlorooctadecane	51.0		mg/kg	50.0		102	40.6-153			

Batch 5082213 - General Prep - Organics**Blank (5082213-BLK1)**

Prepared & Analyzed: 22-Aug-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	44.4-145			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.5	40.6-153			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND TX, 79701

Project: CYPHER 36 STATE COM 1
Project Number: 2800
Project Manager: ASHTON THIELKE
Fax To:

Reported:
27-Aug-25 11:54

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 5082213 - General Prep - Organics**LCS (5082213-BS1)**

Prepared & Analyzed: 22-Aug-25

GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123			
DRO >C10-C28	183	10.0	mg/kg	200		91.5	77.7-122			
Total TPH C6-C28	389	10.0	mg/kg	400		97.1	80.9-121			
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	44.4-145			
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116	40.6-153			

LCS Dup (5082213-BS1)

Prepared & Analyzed: 22-Aug-25

GRO C6-C10	209	10.0	mg/kg	200		104	81.5-123	1.56	13	
DRO >C10-C28	184	10.0	mg/kg	200		92.2	77.7-122	0.802	15.6	
Total TPH C6-C28	393	10.0	mg/kg	400		98.3	80.9-121	1.21	18.5	
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	44.4-145			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	40.6-153			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: HA555239

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marlenfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

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

Project Name:	Cypher 36 State Com 1	Turn Around	☐ Routine ☒ Rush	Due Date:	48 Hours
Project Number:	2800				
Project Location:	Eddy Co, NM				
Sampler's Name:	JDC				
PO #:					
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Received In tact:	Yes ☒ No ☐	Thermometer ID:	#140		
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	+0.30		
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	1.40		
Total Containers:		Corrected Temperature:	1.70		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
CS-10 (8.0')	8/21/2025		X		Comp	1	BTEX 8021B		None: NO	
CS-11 (8.0')	8/21/2025		X		Comp	1	TPH 8015M (GRO + DRO + MRO)		DI Water: H ₂ O	
CS-12 (18')	8/21/2025		X		Comp	1	Chloride 4500		Cool: Cool	
CS-13 (18')	8/21/2025		X		Comp	1			HCL: HC	
CS-14 (12)	8/21/2025		X		Comp	1			H ₂ SO ₄ : H ₂	
CS-15 (12)	8/21/2025		X		Comp	1			H ₃ PO ₄ : HP	
CS-16 (12)	8/21/2025		X		Comp	1			NaHSO ₄ : NABIS	
CS-17 (12)	8/21/2025		X		Comp	1			Na ₂ S ₂ O ₃ : NaSO ₃	
CS-18 (8.0')	8/21/2025		X		Comp	1			Zn Acetate+NaOH: Zn	
CS-19 (18.0')	8/21/2025		X		Comp	1			NaOH+Ascorbic Acid: SPC	

Comments: * Customer requested Depth changes to 8/24/25

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>		<i>[Signature]</i>	8.21.25 1:14 PM

Chain of Custody

Work Order No: 4055239Page 2 of 1

Page 31 of 32

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marlenfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coderra.com & ashton.thielke@coderra.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:	Cypher 36 State Com 1	Turn Around	☐ Routine ☒ Rush	Due Date:	48 Hours
Project Number:	2800				
Project Location:	Eddy Co, NM				
Sampler's Name:	JDC				
PO #:					
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Received Intact:	Yes ☒ No ☐	Thermometer ID:	#140		
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor:	10.3		
Sample Custody Seals:	Yes ☒ No ☐ N/A	Temperature Reading:	1.4		
Total Containers:		Corrected Temperature:	1.7		
Sample Identification	Date	Time	Soil	Water	Grab/Comp
CS-20 (18)	8/21/2025		X		Comp 1
SW-8 (5.0-12)	8/21/2025		X		Comp 1
SW-9 (5.0-12)	8/21/2025		X		Comp 1
SW-10 (12)	8/21/2025		X		Comp 1
SW-11 (12-18)	8/21/2025		X		Comp 1
SW-12 (12-18) <u>8-12</u>	8/21/2025		X		Comp 1
SW-13 (8.0)	8/21/2025		X		Comp 1
SW-14 (8.0)	8/21/2025		X		Comp 1
SW-15 (8.0)	8/21/2025		X		Comp 1
SW-16 (8.0)	8/21/2025		X		Comp 1

Comments: * Customer requested Depth changes. etc. 8/21/25

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

8.21.25 11:44

Chain of Custody

Work Order No: 425230

Page 3 of 3[illegible]



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

August 26, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: CYPHER 36 STATE COM 1

Enclosed are the results of analyses for samples received by the laboratory on 08/22/25 13:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 21 (8.0') (H255257-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2025	ND	432	108	400	3.86		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 22 (8.0') (H255257-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/25/2025	ND	432	108	400	3.86		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 23 (8.0') (H255257-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2025	ND	432	108	400	3.86		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 18 (8.0') (H255257-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/25/2025	ND	432	108	400	3.86	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.1 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 19 (8.0') (H255257-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2025	ND	432	108	400	3.86		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.6 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 20 (8.0') (H255257-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2025	ND	432	108	400	3.86		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.4 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 21 (8-18') (H255257-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/25/2025	ND	432	108	400	3.86		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.0 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 22 (8-18') (H255257-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/25/2025	ND	432	108	400	3.86	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 23 (8-18') (H255257-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/25/2025	ND	432	108	400	3.86		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.5 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 24 (8-18') (H255257-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 40.6-153

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 25 (18') (H255257-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	218	109	200	1.29	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 26 (18') (H255257-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	218	109	200	1.29	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 08/22/2025
 Reported: 08/26/2025
 Project Name: CYPHER 36 STATE COM 1
 Project Number: 2800
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 08/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 27 (18') (H255257-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2025	ND	1.55	77.5	2.00	1.08		
Toluene*	<0.050	0.050	08/25/2025	ND	1.78	89.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.85	92.3	2.00	4.88		
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.85	97.5	6.00	6.92		
Total BTEX	<0.300	0.300	08/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	218	109	200	1.29	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

1655257

Page 1 of 2

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Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Cammona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Mainfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coierra.com & ashton.thielke@coierra.com

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

Project Name:	Cypher 36 State Com 1	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	2800	☐ Routine	☒ Rush		48 Hours													None: NO	DI Water: H ₂ O		
Project Location:	Eddy Co, NM	Due Date:													Cool: Cool	MeOH: Me					
Sampler's Name:	JDC													HCL: HC	HNO ₃ : HN						
PO #:														Hold		H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Thermometer ID:	Yes ☒ No ☐	Well Ice:	Yes ☒ No ☐													H ₃ PO ₄ : HP	
Received Intact:	Yes ☒ No ☐	Cooler Custody Seals:	Yes ☒ No ☐ N/A ☐	Correction Factor:	Yes ☒ No ☐ N/A ☐	Temperature Reading:	Yes ☒ No ☐ N/A ☐													NaHSO ₄ : NABIS	
Sample Custody Seals:	Yes ☒ No ☐ N/A ☐													Zn Acetate+NaOH: Zn							
Total Containers:														NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-21 (8.0')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
CS-22 (8.0')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
CS-23 (8.0')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
SW-18 (8.0')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
SW-19 (8.0')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
SW-20 (8.0')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
SW-21 (8-18')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
SW-22 (8-18')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
SW-23 (8-18')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					
SW-24 (8-18')		8/22/2025		X		Comp	1	X	X	X	X	X	X	X	X	X					

Comments:

Relinquished by: (Signature)

[Signature]

Date/Time

Received by: (Signature)

[Signature]

Date/Time

8.22.25 1:34p

Chain of Custody

Work Order No.:

Page 2 of 2

Page 17 of 17

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

[illegible]

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Quesada

Received by: (Signature)

8.22.25/1340



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 8/26/2025 3:38:20 PM

JOB DESCRIPTION

CYPHER 36 STATE COM 1
2800

JOB NUMBER

890-8723-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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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
8/26/2025 3:38:20 PM

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

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Laboratory Job ID: 890-8723-1
SDG: 2800

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Definitions/Glossary

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: CYPHER 36 STATE COM 1

Job ID: 890-8723-1

Job ID: 890-8723-1

Eurofins Carlsbad

Job Narrative 890-8723-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 8/25/2025 2:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BACKFILL SAMPLE (890-8723-1).

GC VOA

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

Diesel Range Organics

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.

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Client Sample Results

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

Client Sample ID: BACKFILL SAMPLE

Lab Sample ID: 890-8723-1

Date Collected: 08/25/25 00:00

Matrix: Solid

Date Received: 08/25/25 14:31

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		08/26/25 09:34	08/26/25 13:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/26/25 09:34	08/26/25 13:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/26/25 09:34	08/26/25 13:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/26/25 09:34	08/26/25 13:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/26/25 09:34	08/26/25 13:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/26/25 09:34	08/26/25 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/26/25 09:34	08/26/25 13:29	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/26/25 09:34	08/26/25 13:29	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			08/26/25 13:29	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			08/26/25 15:18	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		08/22/25 09:30	08/26/25 15:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/25 09:30	08/26/25 15:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/25 09:30	08/26/25 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130	08/22/25 09:30	08/26/25 15:18	1
o-Terphenyl (Surr)	80		70 - 130	08/22/25 09:30	08/26/25 15:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		9.94		mg/Kg			08/26/25 10:21	1

Eurofins Carlsbad

Surrogate Summary

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

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)
890-8722-A-1-H MS	Matrix Spike	103	109
890-8722-A-1-I MSD	Matrix Spike Duplicate	103	102
890-8723-1	BACKFILL SAMPLE	97	97
LCS 880-117553/1-A	Lab Control Sample	110	100
LCSD 880-117553/2-A	Lab Control Sample Dup	105	100
MB 880-117553/5-A	Method Blank	101	91
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)
880-61815-A-1-D MS	Matrix Spike	92	85
880-61815-A-1-E MSD	Matrix Spike Duplicate	75	83
890-8723-1	BACKFILL SAMPLE	81	80
LCS 880-117346/2-A	Lab Control Sample	111	105
LCSD 880-117346/3-A	Lab Control Sample Dup	89	101
MB 880-117346/1-A	Method Blank	91	94
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-117553/5-A

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/26/25 09:34	08/26/25 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/25 09:34	08/26/25 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/25 09:34	08/26/25 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/26/25 09:34	08/26/25 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/25 09:34	08/26/25 12:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/26/25 09:34	08/26/25 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/26/25 09:34	08/26/25 12:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/26/25 09:34	08/26/25 12:26	1

Lab Sample ID: LCS 880-117553/1-A

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09197		mg/Kg		92	70 - 130
Toluene	0.100	0.08865		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09902		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09687		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-117553/2-A

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117553

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08525		mg/Kg		85	70 - 130	8	35
Toluene	0.100	0.07626		mg/Kg		76	70 - 130	15	35
Ethylbenzene	0.100	0.08507		mg/Kg		85	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1662		mg/Kg		83	70 - 130	17	35
o-Xylene	0.100	0.08483		mg/Kg		85	70 - 130	13	35

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

Lab Sample ID: 890-8722-A-1-H MS

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 117553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08334		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.07975		mg/Kg		80	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

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

Lab Sample ID: 890-8722-A-1-H MS

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 117553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09374		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1878		mg/Kg		94	70 - 130
o-Xylene	<0.00200	U	0.100	0.09122		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-8722-A-1-I MSD

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 117553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09027		mg/Kg		90	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.08060		mg/Kg		81	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09135		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1814		mg/Kg		91	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.08904		mg/Kg		89	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-117346/1-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117346

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		08/22/25 09:30	08/26/25 11:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/25 09:30	08/26/25 11:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/25 09:30	08/26/25 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	08/22/25 09:30	08/26/25 11:20	1
o-Terphenyl (Surr)	94		70 - 130	08/22/25 09:30	08/26/25 11:20	1

Lab Sample ID: LCS 880-117346/2-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1047		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

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

Lab Sample ID: LCS 880-117346/2-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117346

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-117346/3-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117346

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1026		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1055		mg/Kg		105	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	101		70 - 130

Lab Sample ID: 880-61815-A-1-D MS

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 117346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	880.0		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	862.0		mg/Kg		83	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	85		70 - 130

Lab Sample ID: 880-61815-A-1-E MSD

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 117346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	861.1		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	893.5		mg/Kg		86	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	75		70 - 130
o-Terphenyl (Surr)	83		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-117534/1-A
Matrix: Solid
Analysis Batch: 117544

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			08/26/25 09:40	1

Lab Sample ID: LCS 880-117534/2-A
Matrix: Solid
Analysis Batch: 117544

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-117534/3-A
Matrix: Solid
Analysis Batch: 117544

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	256.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-8722-A-1-B MS
Matrix: Solid
Analysis Batch: 117544

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	56.8		251	313.8		mg/Kg		102	90 - 110

Lab Sample ID: 890-8722-A-1-C MSD
Matrix: Solid
Analysis Batch: 117544

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	56.8		251	316.6		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

GC VOA

Analysis Batch: 117543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Total/NA	Solid	8021B	117553
MB 880-117553/5-A	Method Blank	Total/NA	Solid	8021B	117553
LCS 880-117553/1-A	Lab Control Sample	Total/NA	Solid	8021B	117553
LCSD 880-117553/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	117553
890-8722-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	117553
890-8722-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	117553

Prep Batch: 117553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Total/NA	Solid	5035	
MB 880-117553/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-117553/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-117553/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8722-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-8722-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 117623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 117346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Total/NA	Solid	8015NM Prep	
MB 880-117346/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-117346/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-117346/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61815-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-61815-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 117571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Total/NA	Solid	8015B NM	117346
MB 880-117346/1-A	Method Blank	Total/NA	Solid	8015B NM	117346
LCS 880-117346/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	117346
LCSD 880-117346/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	117346
880-61815-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	117346
880-61815-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	117346

Analysis Batch: 117646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 117534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Soluble	Solid	DI Leach	
MB 880-117534/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-117534/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-117534/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

HPLC/IC (Continued)

Leach Batch: 117534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8722-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8722-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 117544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8723-1	BACKFILL SAMPLE	Soluble	Solid	300.0	117534
MB 880-117534/1-A	Method Blank	Soluble	Solid	300.0	117534
LCS 880-117534/2-A	Lab Control Sample	Soluble	Solid	300.0	117534
LCSD 880-117534/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	117534
890-8722-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	117534
890-8722-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	117534

Lab Chronicle

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

Client Sample ID: BACKFILL SAMPLE
Date Collected: 08/25/25 00:00
Date Received: 08/25/25 14:31

Lab Sample ID: 890-8723-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	117553	08/26/25 09:34	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117543	08/26/25 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117623	08/26/25 13:29	SA	EET MID
Total/NA	Analysis	8015 NM		1			117646	08/26/25 15:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	117346	08/22/25 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117571	08/26/25 15:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	117534	08/25/25 17:37	SMC	EET MID
Soluble	Analysis	300.0		1			117544	08/26/25 10:21	CS	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

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	06-30-26
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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

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: CYPHER 36 STATE COM 1

Job ID: 890-8723-1
SDG: 2800

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8723-1	BACKFILL SAMPLE	Solid	08/25/25 00:00	08/25/25 14:31	Texas

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

Chain of Custody

Work Order No.:

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Lung
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marlenfield St Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.lung@coterra.com & ashton.thielke@coterra.com

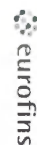
Work Order Comments	
Program: UST/PST ☐ RP ☐ Rowntalids ☐ RC ☐ ☐ perfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other: ☐	

[illegible]

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-8723-1

SDG Number: 2800

Login Number: 8723

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Improper containers received.
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	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-8723-1

SDG Number: 2800

Login Number: 8723

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 08/26/25 08:08 AM

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	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 502126

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2518476618
Incident Name	NAPP2518476618 CYPHER 36 STATE COM 1 @ FAPP2202536779
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2202536779] CYPHER 36 STATE COM 1

Location of Release Source*Please answer all the questions in this group.*

Site Name	CYPHER 36 STATE COM 1
Date Release Discovered	07/03/2025
Surface Owner	State

Incident Details*Please answer all the questions in this group.*

Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Lightning Tank (Any) Produced Water Released: 42 BBL Recovered: 42 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The Lease Operator was near the Cypher facility and saw lightning strike the facility. Upon arrival, the Operator saw the 300-barrel fiberglass tank on fire. The Fire Department was notified and successful extinguished the fire. The fiberglass tank was the only vessel destroyed in the fire. Based on tank gauges, an estimated 42 barrels produced water was released into the gravel lined containment. Vac trucks were able to recover a total of 100 barrels fluid, a combination of rainwater, fresh water used by fire trucks to extinguish the fire, and produced water released from the burnt tank. The impacted gravel will be removed to expose the liner, and a liner inspection will be scheduled in the coming weeks.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 502126

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 09/03/2025
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 502126

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2060
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	607
GRO+DRO (EPA SW-846 Method 8015M)	607
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/15/2025
On what date will (or did) the final sampling or liner inspection occur	08/22/2025
On what date will (or was) the remediation complete(d)	08/22/2025
What is the estimated surface area (in square feet) that will be reclaimed	4450
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	4450
What is the estimated volume (in cubic yards) that will be remediated	1950
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 502126

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 09/03/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 502126

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 502126

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	495566
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/25/2025
What was the (estimated) number of samples that were to be gathered	35
What was the sampling surface area in square feet	5000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4450
What was the total volume (cubic yards) remediated	1950
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Production storage tanks were removed from the tank battery. The entire liner was removed and contamination was removed from the site. Once samples came back from the lab at acceptable limits, the site was backfilled and production tanks were re-installed onsite to continue oil and gas production.
<i>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 (in .pdf format) 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.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 09/03/2025

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QUESTIONS, Page 7

Action 502126

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 502126

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 502126
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2518476618 CYPHER 36 STATE COM 1, thank you. This Remediation Closure Report is approved.	10/16/2025