



## SITE INFORMATION

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**Closure Report**  
**Hornsby 35 Federal Com #002H (06.08.2025)**  
**Incident ID: NAPP2516049014**  
**Eddy County, New Mexico**  
**Unit E, Sec 35, T26S, R27E**  
**32.00046, -104.16464**

**Produced Water Release**  
**Point of Release: Corrosive at Valve**  
**Release Date: 06.08.2025**  
**Volume Released: 42 Barrels of Produced Water**  
**Volume Recovered: 42 Barrels of Produced Water**

CARMONA RESOURCES



**Prepared for:**  
**Cimarex Energy Co. of Colorado**  
**6001 Deauville Blvd.**  
**Suite 300N**  
**Midland, Texas 79706**

**Prepared by:**  
**Carmona Resources, LLC**  
**310 West Wall Street**  
**Suite 500**  
**Midland, Texas 79701**

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



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August 4, 2025

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

Re: **Closure Report**  
**Hornsby 35 Federal Com #002H (06.08.2025)**  
**Incident ID: NAPP2516049014**  
**Cimarex Energy Co. of Colorado**  
**Site Location: Unit E, S35, T26S, R27E**  
**32.00046, -104.16464**  
**Eddy County, New Mexico**

Mr. Bratcher:

At the request of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources LLC has prepared this letter to document the site remediation conducted at the Hornsby 35 Federal Com #002H located at 32.00046, -104.16464 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 June 8, 2025, due to corrosion on a valve at the wellhead. It resulted in approximately forty-five (45) barrels of produced water being released into the cellar and over sprayed on to the well pad, with forty-five (45) barrels recovered. The release area is approximately 1,824 sq ft. 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 Groundwater Determination Bore (GWDB) is approximately 0.09 miles East of the site in S35, T26S, R27E, and was drilled in 2024. The GWDB was drilled to 60 feet below ground surface (ft bgs) and showed evidence of groundwater beginning at 55 ft bgs. A copy of the associated well log 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.



### **5.0 Remediation Activities**

Beginning on July 23, 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 July 23, 2025, and July 28, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of concern was excavated to a depth of 2.5 ft bgs. A total of fifteen (15) confirmation floor samples (CS-1 through CS-15) were collected, and nine (9) sidewall samples (SW-1 through SW-9) were collected every 200 square feet to ensure the proper removal of the contaminated soils. For chemical analysis, the soil samples were collected and placed into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico accordance with established chain-of-custody protocols. 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 and 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 Figure 3.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. A composite sample from the Fred Beard Backfill Pit, located at 32.161928, -104.316363. Approximately 1,824 square feet, resulting in 160 cubic yards of contaminated material were excavated and transported offsite for proper disposal. See Table 1 & Appendix E for laboratory analysis of the backfill sample.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, Chlorides. Refer to Table 1. The excavation depths and confirmation sample locations are shown in Figure 3.

### **6.0 Liner Inspection Activities**

Before conducting the liner inspection, a crew was onsite to remove all freestanding fluids within the cellar of the wellhead. Once the cellar for the well head was thoroughly cleaned, the NMOCD division office was notified via NMOCD portal on July 24, 2025 per Subsection D of 19.15.29.12 NMAC. See Appendix C for the NMOCD correspondence prior to performing the liner inspection. On July 24, 2025, Carmona Resources, LLC conducted liner inspection activities to assess the cellar for the wellheads' integrity and determined there were no integrity issues. Refer to the Photolog in Appendix B. Appendix C also contains a Liner Integrity Certification.

### **7.0 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

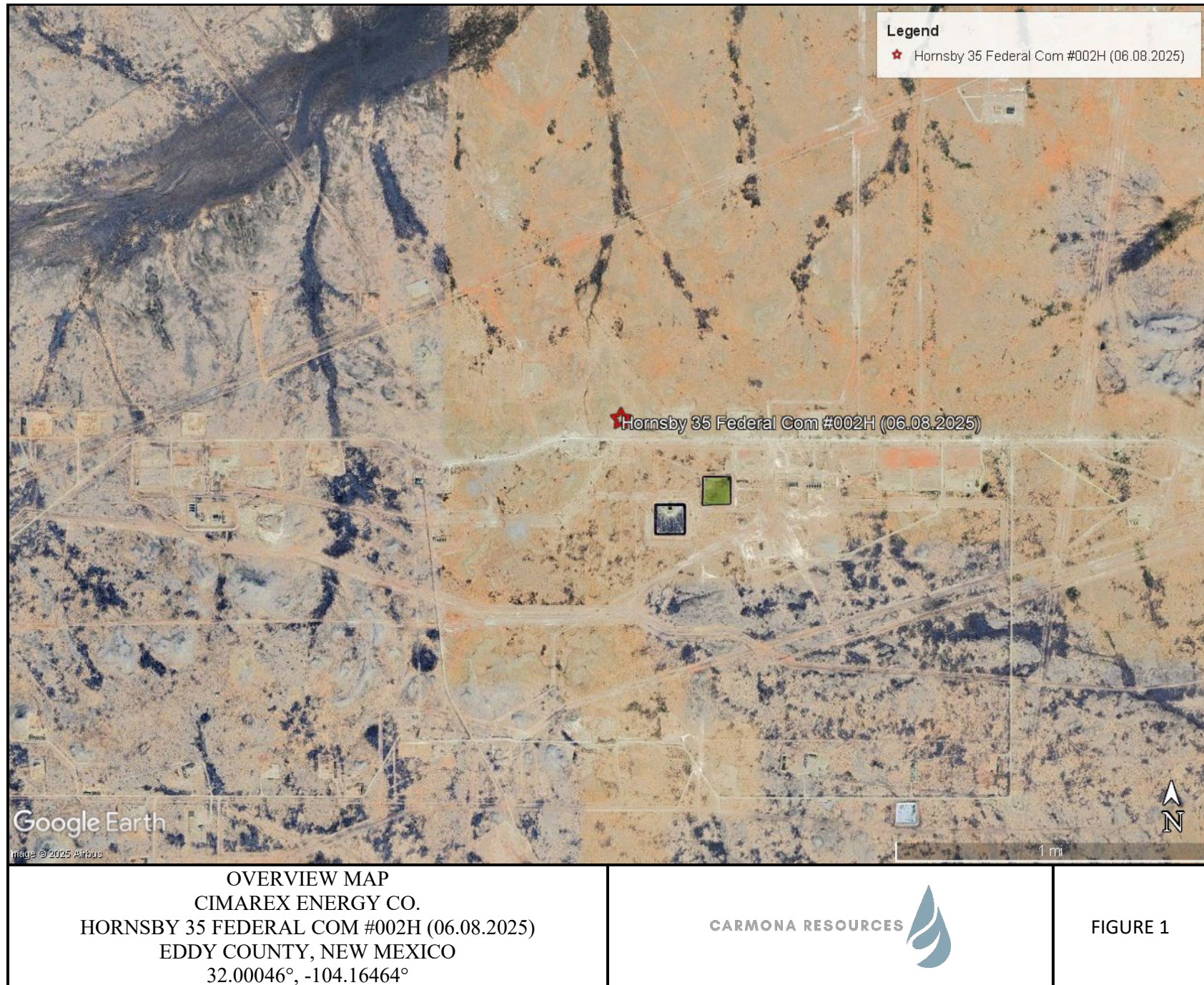
Gilbert Priego  
Project Manager



## FIGURES

CARMONA RESOURCES







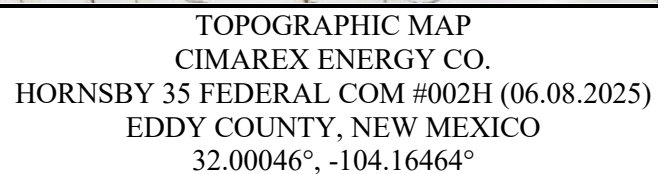
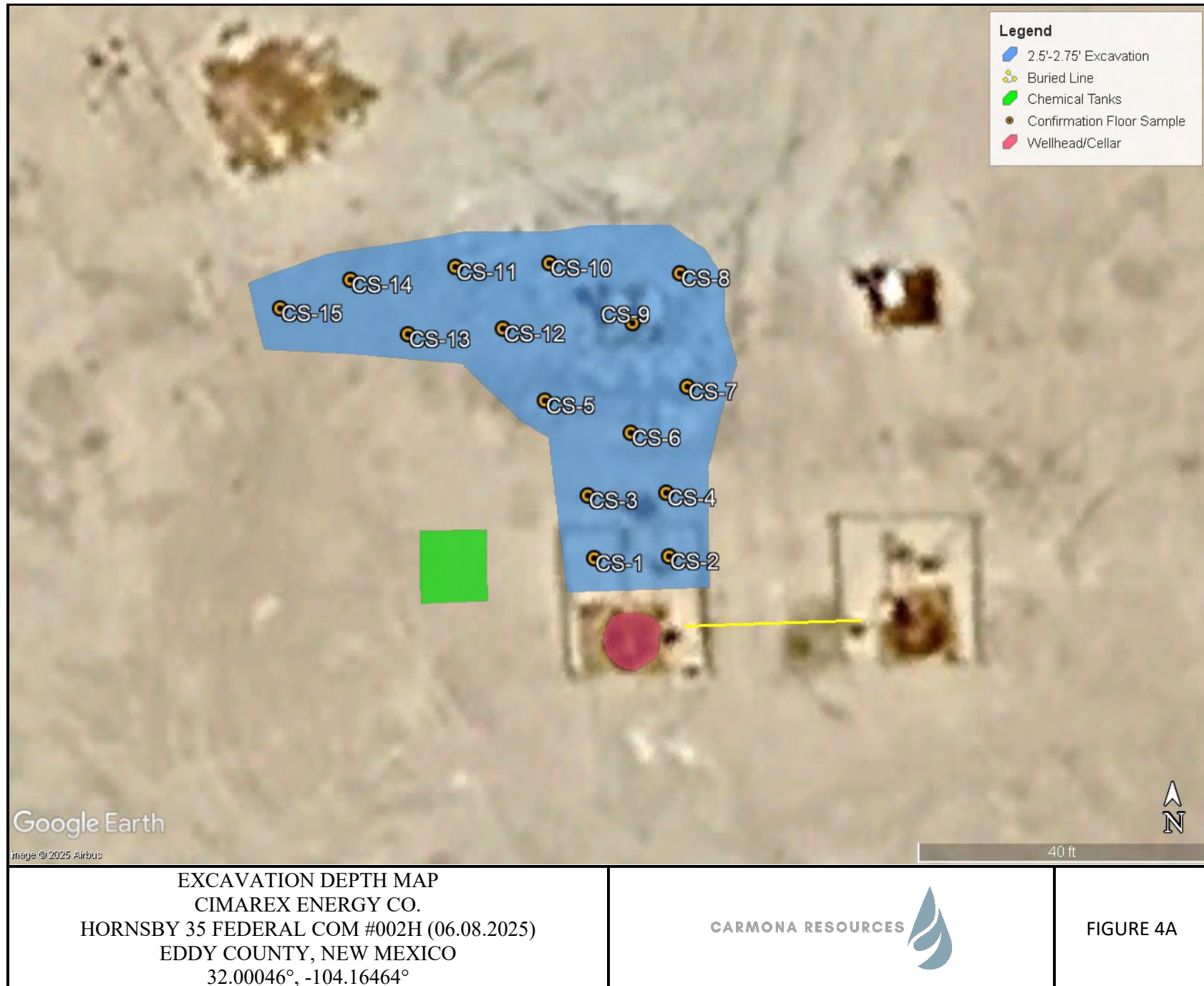
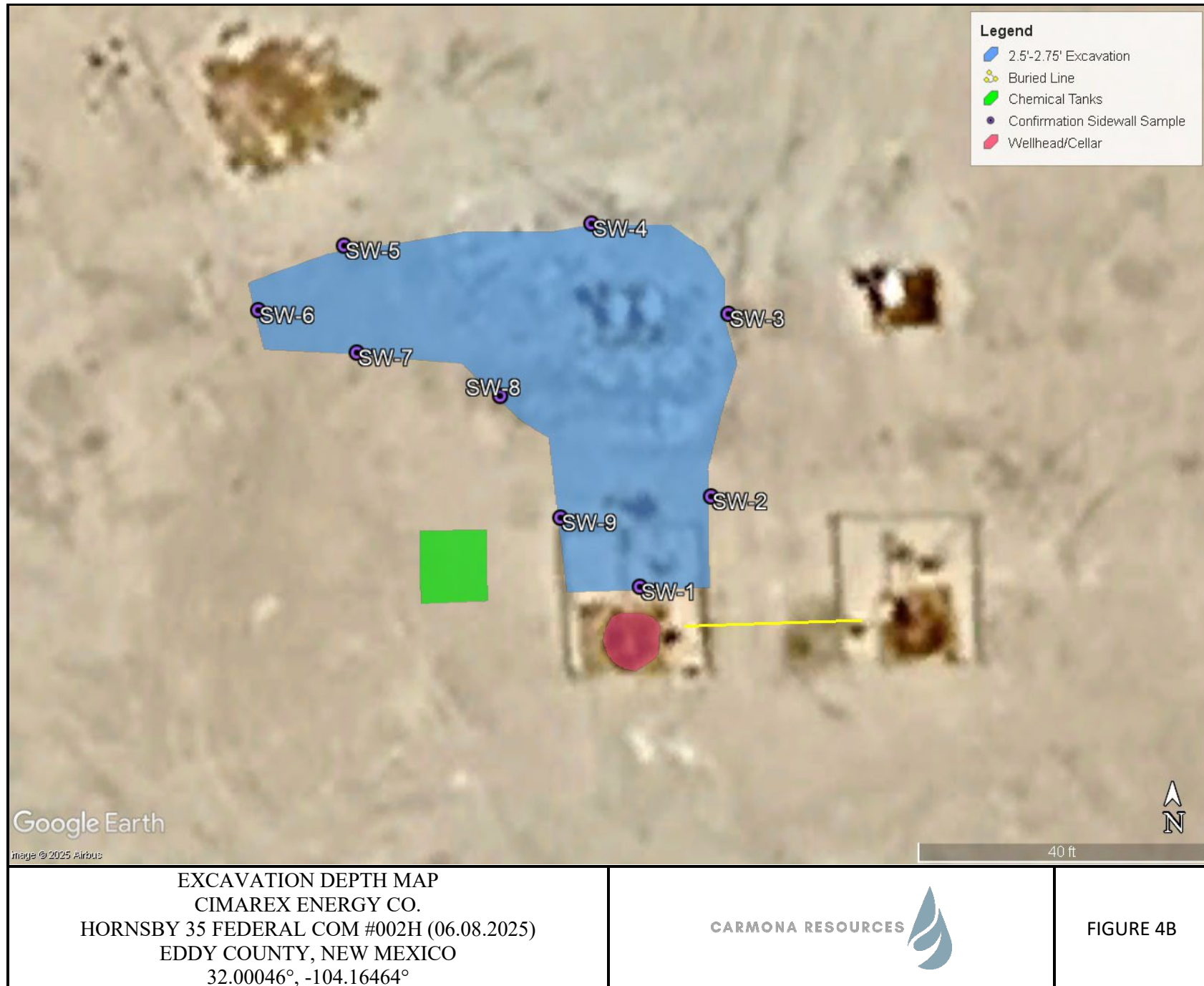


FIGURE 2











## APPENDIX A

CARMONA RESOURCES





**Table 1**  
**Cimarex Energy Co.**  
**Hornsby 35 Federal Com #002H**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	6/16/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00398	110
H-2	6/16/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	237
H-3	6/16/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	221
H-4	6/16/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00199	<0.00199	<0.00199	<0.00398	381
H-5	6/16/2025	0-0.5'	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00399	330
<b>Regulatory Criteria<sup>A</sup></b>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(H) Horizontal Sample

**Table 2**  
**Cimarex Energy Co.**  
**Hornsby 35 Federal Com #002H**  
**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	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-2	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-3	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-4	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-5	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
CS-6	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-7	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
CS-8	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-9	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
CS-10	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
CS-11	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-12	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,650
	7/30/2025	2.75'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<10.0
CS-13	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
CS-14	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,410
	7/30/2025	2.75'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.1
CS-15	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
Backfill Sample	7/25/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory Criteria <sup>A</sup>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

Removed

**Table 2**  
**Cimarex Energy Co.**  
**Hornsby 35 Federal Com #002H**  
**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						
<b>SW-1</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
<b>SW-2</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
<b>SW-3</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
<b>SW-4</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
<b>SW-5</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
<b>SW-6</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
<b>SW-7</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
<b>SW-8</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
<b>SW-9</b>	7/25/2025	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
<b>Regulatory Criteria<sup>A</sup></b>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

<sup>A</sup> – 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:** Hornsby 35 Federal Com #002H  
(06.08.2025)

**County:** Eddy County, New Mexico

**Description:**

View South, area of CS-1 through CS-10.



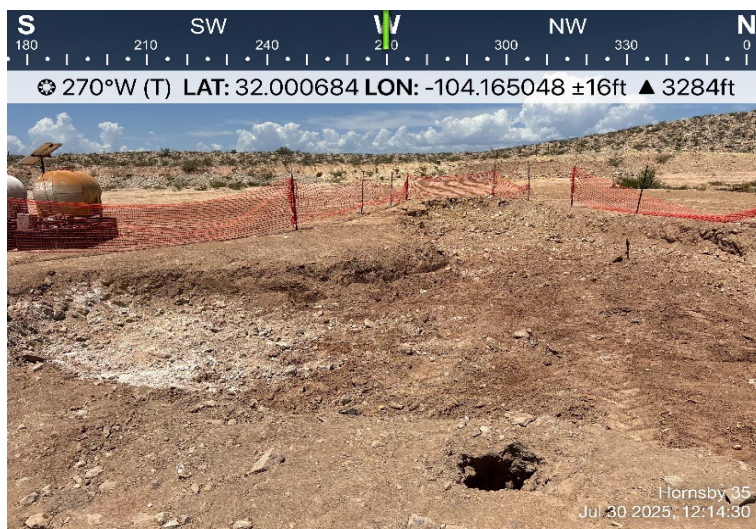
## Photograph No. 2

**Facility:** Hornsby 35 Federal Com #002H  
(06.08.2025)

**County:** Eddy County, New Mexico

**Description:**

View West, area of CS-1 through CS-15.



## Photograph No. 3

**Facility:** Hornsby 35 Federal Com #002H  
(06.08.2025)

**County:** Eddy County, New Mexico

**Description:**

View Northwest, area of CS-1 through CS-15.





# PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

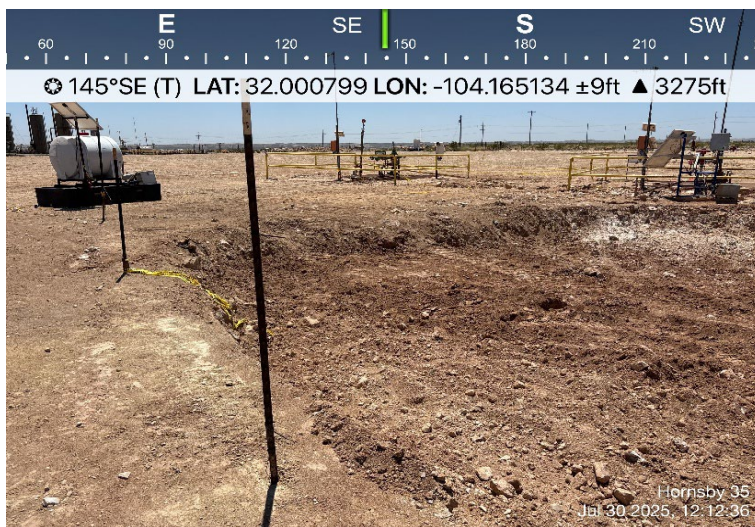
## Photograph No. 4

**Facility:** Hornsby 35 Federal Com #002H  
(06.08.2025)

**County:** Eddy County, New Mexico

**Description:**

View Southeast, area of CS-1 through CS-10.



## Photograph No. 5

**Facility:** Hornsby 35 Federal Com #002H  
(06.08.2025)

**County:** Eddy County, New Mexico

**Description:**

View North, area of the well cellar with fluids removed and no holes detected in the well cellar walls.



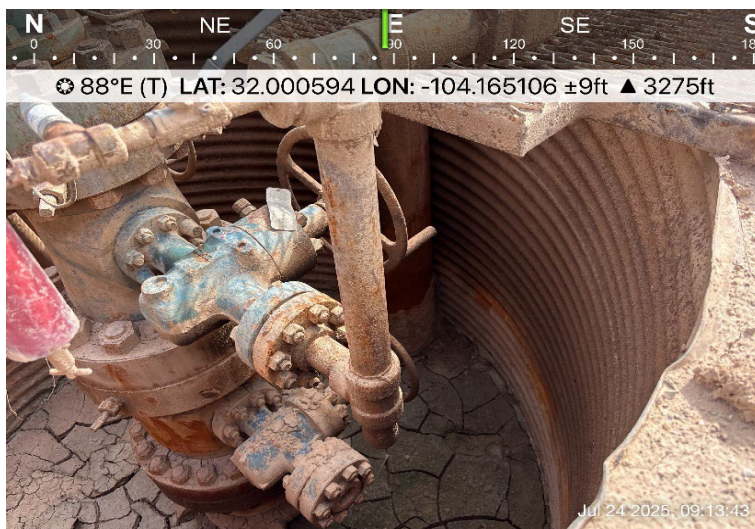
## Photograph No. 6

**Facility:** Hornsby 35 Federal Com #002H  
(06.08.2025)

**County:** Eddy County, New Mexico

**Description:**

View East, area of the well cellar with fluids removed and no holes detected in the well cellar walls.



# PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

## Photograph No. 7

**Facility:** Hornsby 35 Federal Com #002H  
(06.08.2025)

**County:** Eddy County, New Mexico

**Description:**  
View North, well sign



## APPENDIX C

CARMONA RESOURCES





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 472197

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472197
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

<b>Location of Release Source</b> <i>Please answer all the questions in this group.</i>	
Site Name	Hornsby 35 Fed Com 2
Date Release Discovered	06/08/2025
Surface Owner	Federal

<b>Incident Details</b> <i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a 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

<b>Nature and Volume of Release</b> <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: Corrosion   Valve   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)	Not answered.

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

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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, Page 2

Action 472197

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472197
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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.
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	Valve was replaced , Fluid was sucked up.

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.

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**

ACKNOWLEDGMENTS

Action 472197

**ACKNOWLEDGMENTS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472197
	Action Type: [NOTIFY] Notification Of Release (NOR)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 472197

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472197
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
nrose	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	6/9/2025

7

72

%



Oil Spill Total: 0.00 Bbls

Total Spilled: 41.12 Bbls

Total Spilled: 1,726.86 Gals

Add Section to Spill

and

times

to

q

w

e

r

t

y

u

i

o

p

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 472218

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472218
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2516049014
Incident Name	NAPP2516049014 HORNSBY 35 FED COM 2 @ 30-015-42165
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Well	[30-015-42165] HORNSBY 35 FEDERAL COM #002H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	HORNSBY 35 FED COM 2
Date Release Discovered	06/08/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a 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: Corrosion   Valve   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)	Not answered.

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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 472218

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472218
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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.
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	Valve was replaced , Fluid was sucked up.

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: Nathaniel Rose Title: EHS Specialists Email: nathaniel.rose@coterra.com Date: 06/09/2025
--	---

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QUESTIONS, Page 3

Action 472218

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472218
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<b>Remediation Plan</b>	
<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	No
<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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Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 472218

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 472218
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	6/9/2025

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 488178

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488178
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2516049014
Incident Name	NAPP2516049014 HORNSBY 35 FED COM 2 @ 30-015-42165
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42165] HORNSBY 35 FEDERAL COM #002H

Location of Release Source	
Site Name	HORNSBY 35 FED COM 2
Date Release Discovered	06/08/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/25/2025
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	(32.000584, -104.165123) Carmona Resources will be onsite to collect confirmation samples. Confirmation floor and sidewalls will be collected during this time.

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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

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CONDITIONS

Action 488178

CONDITIONS		
Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID:	162683
	Action Number:	488178
	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.	7/23/2025
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.	7/23/2025

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 489154

## QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 489154
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

## QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2516049014
Incident Name	NAPP2516049014 HORNSBY 35 FED COM 2 @ 30-015-42165
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42165] HORNSBY 35 FEDERAL COM #002H

Location of Release Source	
Site Name	HORNSBY 35 FED COM 2
Date Release Discovered	06/08/2025
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2025
Time sampling will commence	02:00 PM
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	(32.000584, -104.165123) Carmona Resources will be onsite to recollect 2 confirmation samples.

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Energy, Minerals and Natural Resources  
Oil Conservation Division  
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Santa Fe, NM 87505

CONDITIONS

Action 489154

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 489154
	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.	7/28/2025
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.	7/28/2025

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QUESTIONS

Action 488319

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488319
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2516049014
Incident Name	NAPP2516049014 HORNSBY 35 FED COM 2 @ 30-015-42165
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42165] HORNSBY 35 FEDERAL COM #002H

Location of Release Source	
Site Name	HORNSBY 35 FED COM 2
Date Release Discovered	06/08/2025
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	150
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	07/24/2025
Time liner inspection will commence	12:00 PM
 <b>Warning: Notification can not be less than two business days prior to conducting liner inspection.</b>  	
Please provide any information necessary for observers to liner inspection	Carmona Resources 432-813-8988
Please provide any information necessary for navigation to liner inspection site	(32.000584, -104.165123) Carmona Resources will be onsite to collect confirmation samples from excavation and during that time will also collect photos of the well cellar to verify the integrity of the containment.

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CONDITIONS

Action 488319

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488319
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	7/24/2025



# Liner Integrity Certification

The following serves to verify that the affected liner has been inspected and found to be in serviceable condition in accordance with 19.15.29.11 A.(5)(a)(i-ii) of the New Mexico Administrative Code.

API Number: 30-015-42165

Date: 07/24/2025

Incident ID(s): NAPP2516049014

- ☒ Responsible Party has visually inspected the liner.
- ☒ Liner remains intact and was able to contain the leak in question.
- ☒ At least two business days' notice was given to the appropriate division district office before conducting the liner inspection.
- ☒ Photographs illustrating liner integrity are included.



## APPENDIX D

CARMONA RESOURCES





**Nearest water well**

Cimarex Energy Co. of Colorado

**Legend**

- 0.09 Miles
- 0.50 Mile Radius
- Groundwater Determination Bore
- Hornsby 35 Federal Com 2 (06.08.2025)

Hornsby 35 Federal Com 2 (06.08.2025)

55' GWDB - Drilled 2024





# High Karst

Cimarex Energy Co. of Colorado

## Legend

- High
- Hornsby 35 Federal Com 2 (06.08.2025)

Hornsby 35 Federal Com 2 (06.08.2025)







# 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 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02930</a>	C	ED		2	3	4	22	26S	27E	577938	3543284*	2706	100	50	50
<a href="#">C 02476</a>	CUB	ED		4	1	24	26S	27E	580653	3544032*	3640	150			

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 2

UTM NAD83 Radius Search (in meters):

**Easting (X):** 578994

**Northing (Y):** 3540792

**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.

4/3/23 8:52 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S). C-4873			
	WELL OWNER NAME(S) Coterra Energy Co. (Agent-H&R Enterprises, LLC/James Hawley)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO 3641				CITY Hobbs	STATE NM	ZIP 88241	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 00	SECONDS 01.0	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 104	09	47.5	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 9-12-24	DRILLING ENDED 9-12-24	DEPTH OF COMPLETED WELL (FT) 60'	BORE HOLE DEPTH (FT) 60'	DEPTH WATER FIRST ENCOUNTERED (FT) 55'			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 55'		DATE STATIC MEASURED 9-26-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0' 60'		4"	No Casing left in hole				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

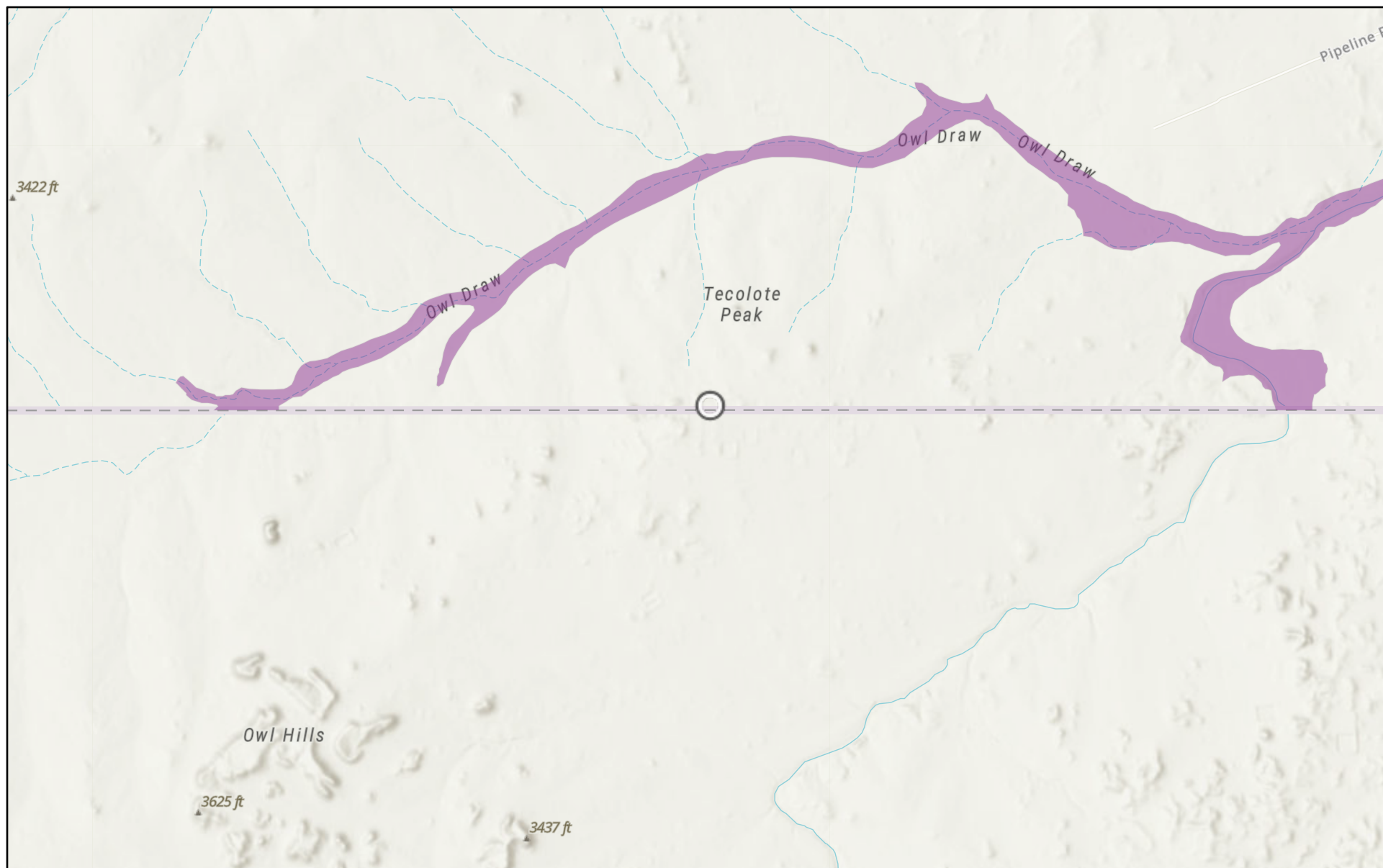
FILE NO. C-04873	POD NO. 1	TRN NO. 765633
LOCATION 26S. 27E. 3S. 343	WELL TAG ID NO. —	PAGE 1 OF 2

<b>4. HYDROGEOLOGIC LOG OF WELL</b>	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <b>(attach supplemental sheets to fully describe all units)</b>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0'	5'	5'	Topsoil	Y    ✓ N	
	5'	15'	10'	Tan Sandy Clay	Y    ✓ N	
	15'	25'	10'	Light Grey Sandy Clay	Y    ✓ N	
	25'	45'	20'	Dark Grey Sandy Clay	Y    ✓ N	
	45'	55'	10'	Light Tan Sandy Clay	✓ Y     N	
	55'	60'	5'	Red Sandy Clay	✓ Y     N	
					Y     N	
					Y     N	
					Y     N	
					Y     N	
					Y     N	
					Y     N	
					Y     N	
					Y     N	
					Y     N	
					Y     N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: N/A				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	<b>5. TEST; RIG SUPERVISION</b>	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION: Bore was gauged for water on 9-26-24, well bore was wet at (55'). Temporary well casing was removed. Borehole was backfilled by tremie pipe with hydrated Bentonite chips to Surface. <div style="text-align: right;">OSE DJI ROSWELL NM OCT 1 2024 PM2:11</div>						
<b>PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:</b>						
	Nathan Smelcer					
<b>6. SIGNATURE</b>	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
					James Hawley    9-30-24	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	C-04873	POD NO.	1
LOCATION		TRN NO.	765633
765.27E.35.343		WELL TAG ID NO.	—
		PAGE 2 OF 2	



# Hornsby 35 Federal Com 2 (06.08.2025)

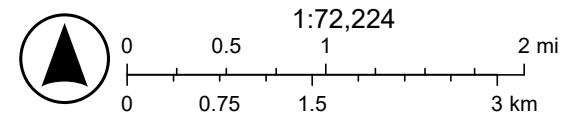


6/12/2025

USA Flood Hazard Areas

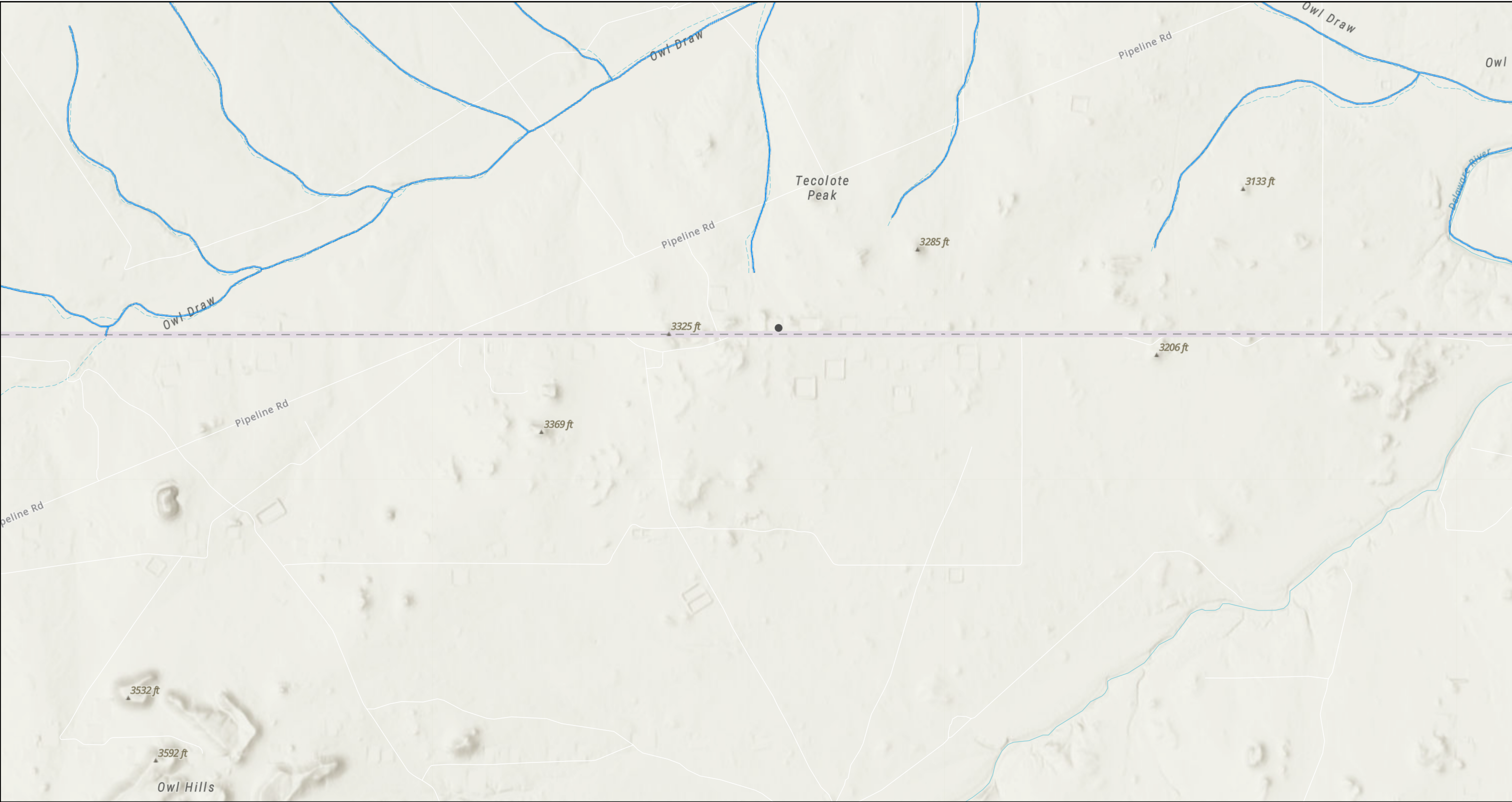
 1% Annual Chance Flood Hazard

World\_Hillshade



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User

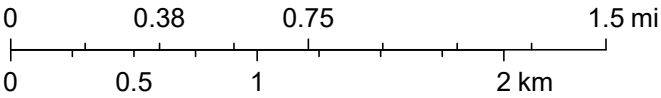
# Hornsby 35 Federal Com 2 (06.08.2025)



6/12/2025, 8:01:22 AM

OSE Streams

1:36,112



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, NM OSE



## APPENDIX E

CARMONA RESOURCES





Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/18/2025 2:27:02 PM

## JOB DESCRIPTION

HORNSBY 35 FEDERAL COM 2  
2754

## JOB NUMBER

890-8295-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



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Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Laboratory Job ID: 890-8295-1  
SDG: 2754

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## Definitions/Glossary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1

**Job ID: 890-8295-1**

**Eurofins Carlsbad**

### Job Narrative 890-8295-1

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 6/16/2025 4:09 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 6.0°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H - 1 (890-8295-1), H - 2 (890-8295-2), H - 3 (890-8295-3), H - 4 (890-8295-4) and H - 5 (890-8295-5).

#### GC VOA

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: (LCSD 880-112398/3-A), (890-8295-A-1-D MS) and (890-8295-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: H - 1 (890-8295-1), H - 2 (890-8295-2) and H - 5 (890-8295-5). 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

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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

Client Sample ID: H - 1

Lab Sample ID: 890-8295-1

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Sample Depth: 0-5

## 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		06/17/25 08:14	06/17/25 13:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/17/25 08:14	06/17/25 13:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/17/25 08:14	06/17/25 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/17/25 08:14	06/17/25 13:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/17/25 08:14	06/17/25 13:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/17/25 08:14	06/17/25 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/17/25 08:14	06/17/25 13:04	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/17/25 08:14	06/17/25 13:04	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/17/25 13:04	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			06/17/25 21:13	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		06/17/25 09:45	06/17/25 21:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/17/25 09:45	06/17/25 21:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/17/25 09:45	06/17/25 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	133	S1+	70 - 130	06/17/25 09:45	06/17/25 21:13	1
o-Terphenyl (Surr)	134	S1+	70 - 130	06/17/25 09:45	06/17/25 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10.0		mg/Kg			06/17/25 13:55	1

Client Sample ID: H - 2

Lab Sample ID: 890-8295-2

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Sample Depth: 0-5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/17/25 08:14	06/17/25 13:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:25	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/17/25 08:14	06/17/25 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/17/25 08:14	06/17/25 13:25	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

Client Sample ID: H - 2

Lab Sample ID: 890-8295-2

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Sample Depth: 0-5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	06/17/25 08:14	06/17/25 13:25	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/17/25 13:25	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			06/17/25 21:58	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		06/17/25 09:45	06/17/25 21:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 21:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 21:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	134	S1+	70 - 130				06/17/25 09:45	06/17/25 21:58	1
o-Terphenyl (Surr)	136	S1+	70 - 130				06/17/25 09:45	06/17/25 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		9.98		mg/Kg			06/17/25 14:12	1

Client Sample ID: H - 3

Lab Sample ID: 890-8295-3

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Sample Depth: 0-5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/17/25 08:14	06/17/25 13:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/17/25 08:14	06/17/25 13:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/17/25 08:14	06/17/25 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/17/25 08:14	06/17/25 13:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/17/25 08:14	06/17/25 13:45	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/17/25 13:45	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			06/17/25 22:13	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

## Client Sample ID: H - 3

Date Collected: 06/16/25 00:00

Date Received: 06/16/25 16:09

Sample Depth: 0-5

## Lab Sample ID: 890-8295-3

Matrix: Solid

## 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		06/17/25 09:45	06/17/25 22:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/17/25 09:45	06/17/25 22:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/17/25 09:45	06/17/25 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130				06/17/25 09:45	06/17/25 22:13	1
o-Terphenyl (Surr)	122		70 - 130				06/17/25 09:45	06/17/25 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		10.0		mg/Kg			06/17/25 14:18	1

## Client Sample ID: H - 4

Date Collected: 06/16/25 00:00

Date Received: 06/16/25 16:09

Sample Depth: 0-5

## Lab Sample ID: 890-8295-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/17/25 08:14	06/17/25 14:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/17/25 08:14	06/17/25 14:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/17/25 08:14	06/17/25 14:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/17/25 08:14	06/17/25 14:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/17/25 08:14	06/17/25 14:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/17/25 08:14	06/17/25 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/17/25 08:14	06/17/25 14:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/17/25 08:14	06/17/25 14:06	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			06/17/25 14:06	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			06/17/25 22:28	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	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 22:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 22:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	71		70 - 130				06/17/25 09:45	06/17/25 22:28	1
o-Terphenyl (Surr)	72		70 - 130				06/17/25 09:45	06/17/25 22:28	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

Client Sample ID: H - 4

Lab Sample ID: 890-8295-4

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Sample Depth: 0-5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	381		10.1		mg/Kg			06/17/25 14:23	1

Client Sample ID: H - 5

Lab Sample ID: 890-8295-5

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Sample Depth: 0-5

## 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		06/17/25 08:14	06/17/25 14:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/17/25 08:14	06/17/25 14:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/17/25 08:14	06/17/25 14:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/17/25 08:14	06/17/25 14:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/17/25 08:14	06/17/25 14:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/17/25 08:14	06/17/25 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/17/25 08:14	06/17/25 14:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/17/25 08:14	06/17/25 14:26	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/17/25 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			06/17/25 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		06/17/25 09:45	06/17/25 22:43	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		06/17/25 09:45	06/17/25 22:43	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		06/17/25 09:45	06/17/25 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	133	S1+	70 - 130				06/17/25 09:45	06/17/25 22:43	1
o-Terphenyl (Surr)	131	S1+	70 - 130				06/17/25 09:45	06/17/25 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		10.0		mg/Kg			06/17/25 14:29	1

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# Surrogate Summary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

## 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)
880-59348-A-41-E MS	Matrix Spike	87	88
880-59348-A-41-F MSD	Matrix Spike Duplicate	89	91
890-8295-1	H - 1	100	93
890-8295-2	H - 2	99	96
890-8295-3	H - 3	97	95
890-8295-4	H - 4	101	97
890-8295-5	H - 5	102	96
LCS 880-112385/1-A	Lab Control Sample	86	90
LCSD 880-112385/2-A	Lab Control Sample Dup	86	91
MB 880-112385/5-A	Method Blank	92	88

### 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)
890-8295-1	H - 1	133 S1+	134 S1+
890-8295-1 MS	H - 1	137 S1+	123
890-8295-1 MSD	H - 1	131 S1+	122
890-8295-2	H - 2	134 S1+	136 S1+
890-8295-3	H - 3	120	122
890-8295-4	H - 4	71	72
890-8295-5	H - 5	133 S1+	131 S1+
LCS 880-112398/2-A	Lab Control Sample	122	117
LCSD 880-112398/3-A	Lab Control Sample Dup	135 S1+	126
MB 880-112398/1-A	Method Blank	89	96

### Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

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

Lab Sample ID: MB 880-112385/5-A

Matrix: Solid

Analysis Batch: 112391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/17/25 08:14	06/17/25 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/17/25 08:14	06/17/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/17/25 08:14	06/17/25 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/17/25 08:14	06/17/25 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/17/25 08:14	06/17/25 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/17/25 08:14	06/17/25 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/17/25 08:14	06/17/25 11:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/17/25 08:14	06/17/25 11:42	1

Lab Sample ID: LCS 880-112385/1-A

Matrix: Solid

Analysis Batch: 112391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09153		mg/Kg		92	70 - 130
Toluene	0.100	0.08094		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08645		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08977		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-112385/2-A

Matrix: Solid

Analysis Batch: 112391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112385

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1098		mg/Kg		110	70 - 130	18	35
Toluene	0.100	0.09730		mg/Kg		97	70 - 130	18	35
Ethylbenzene	0.100	0.1005		mg/Kg		100	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2031		mg/Kg		102	70 - 130	14	35
o-Xylene	0.100	0.1015		mg/Kg		101	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-59348-A-41-E MS

Matrix: Solid

Analysis Batch: 112391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 112385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09490		mg/Kg		95	70 - 130
Toluene	<0.00200	U	0.100	0.07696		mg/Kg		77	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

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

Lab Sample ID: 880-59348-A-41-E MS

Matrix: Solid

Analysis Batch: 112391

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 112385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07404		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1506		mg/Kg		75	70 - 130
o-Xylene	<0.00200	U	0.100	0.07605		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-59348-A-41-F MSD

Matrix: Solid

Analysis Batch: 112391

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 112385

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09250		mg/Kg		93	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.07349		mg/Kg		73	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.07196		mg/Kg		72	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1462		mg/Kg		73	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07395		mg/Kg		74	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-112398/1-A

Matrix: Solid

Analysis Batch: 112426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 20:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/17/25 09:45	06/17/25 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	06/17/25 09:45	06/17/25 20:27	1
o-Terphenyl (Surr)	96		70 - 130	06/17/25 09:45	06/17/25 20:27	1

Lab Sample ID: LCS 880-112398/2-A

Matrix: Solid

Analysis Batch: 112426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1031		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	879.0		mg/Kg		88	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

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

Lab Sample ID: LCS 880-112398/2-A

Matrix: Solid

Analysis Batch: 112426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112398

	LCS %Recovery	LCS Qualifier	Limits
<b>Surrogate</b>			
1-Chlorooctane (Surr)	122		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-112398/3-A

Matrix: Solid

Analysis Batch: 112426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112398

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1154		mg/Kg		115	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	928.0		mg/Kg		93	70 - 130	5	20
<b>Surrogate</b>											
	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane (Surr)	135	S1+	70 - 130								
o-Terphenyl (Surr)	126		70 - 130								

Lab Sample ID: 890-8295-1 MS

Matrix: Solid

Analysis Batch: 112426

Client Sample ID: H - 1

Prep Type: Total/NA

Prep Batch: 112398

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	1000	929.9		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	830.5		mg/Kg		81	70 - 130		
<b>Surrogate</b>											
	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	137	S1+	70 - 130								
o-Terphenyl (Surr)	123		70 - 130								

Lab Sample ID: 890-8295-1 MSD

Matrix: Solid

Analysis Batch: 112426

Client Sample ID: H - 1

Prep Type: Total/NA

Prep Batch: 112398

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	1000	895.7		mg/Kg		90	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	821.1		mg/Kg		80	70 - 130	1	20
<b>Surrogate</b>											
	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	131	S1+	70 - 130								
o-Terphenyl (Surr)	122		70 - 130								

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## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112382/1-A

Matrix: Solid

Analysis Batch: 112399

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			06/17/25 11:56	1

Lab Sample ID: LCS 880-112382/2-A

Matrix: Solid

Analysis Batch: 112399

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-112382/3-A

Matrix: Solid

Analysis Batch: 112399

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	251.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-59352-A-1-C MS

Matrix: Solid

Analysis Batch: 112399

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	407		252	682.3		mg/Kg		109	90 - 110

Lab Sample ID: 880-59352-A-1-D MSD

Matrix: Solid

Analysis Batch: 112399

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	407		252	683.9		mg/Kg		110	90 - 110	0	20

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## QC Association Summary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

## GC VOA

## Prep Batch: 112385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Total/NA	Solid	5035	
890-8295-2	H - 2	Total/NA	Solid	5035	
890-8295-3	H - 3	Total/NA	Solid	5035	
890-8295-4	H - 4	Total/NA	Solid	5035	
890-8295-5	H - 5	Total/NA	Solid	5035	
MB 880-112385/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112385/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112385/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59348-A-41-E MS	Matrix Spike	Total/NA	Solid	5035	
880-59348-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 112391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Total/NA	Solid	8021B	112385
890-8295-2	H - 2	Total/NA	Solid	8021B	112385
890-8295-3	H - 3	Total/NA	Solid	8021B	112385
890-8295-4	H - 4	Total/NA	Solid	8021B	112385
890-8295-5	H - 5	Total/NA	Solid	8021B	112385
MB 880-112385/5-A	Method Blank	Total/NA	Solid	8021B	112385
LCS 880-112385/1-A	Lab Control Sample	Total/NA	Solid	8021B	112385
LCSD 880-112385/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112385
880-59348-A-41-E MS	Matrix Spike	Total/NA	Solid	8021B	112385
880-59348-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	112385

## Analysis Batch: 112524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Total/NA	Solid	Total BTEX	
890-8295-2	H - 2	Total/NA	Solid	Total BTEX	
890-8295-3	H - 3	Total/NA	Solid	Total BTEX	
890-8295-4	H - 4	Total/NA	Solid	Total BTEX	
890-8295-5	H - 5	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 112398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Total/NA	Solid	8015NM Prep	
890-8295-2	H - 2	Total/NA	Solid	8015NM Prep	
890-8295-3	H - 3	Total/NA	Solid	8015NM Prep	
890-8295-4	H - 4	Total/NA	Solid	8015NM Prep	
890-8295-5	H - 5	Total/NA	Solid	8015NM Prep	
MB 880-112398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8295-1 MS	H - 1	Total/NA	Solid	8015NM Prep	
890-8295-1 MSD	H - 1	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 112426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Total/NA	Solid	8015B NM	112398
890-8295-2	H - 2	Total/NA	Solid	8015B NM	112398

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## QC Association Summary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

## GC Semi VOA (Continued)

## Analysis Batch: 112426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-3	H - 3	Total/NA	Solid	8015B NM	112398
890-8295-4	H - 4	Total/NA	Solid	8015B NM	112398
890-8295-5	H - 5	Total/NA	Solid	8015B NM	112398
MB 880-112398/1-A	Method Blank	Total/NA	Solid	8015B NM	112398
LCS 880-112398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112398
LCSD 880-112398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112398
890-8295-1 MS	H - 1	Total/NA	Solid	8015B NM	112398
890-8295-1 MSD	H - 1	Total/NA	Solid	8015B NM	112398

## Analysis Batch: 112487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Total/NA	Solid	8015 NM	
890-8295-2	H - 2	Total/NA	Solid	8015 NM	
890-8295-3	H - 3	Total/NA	Solid	8015 NM	
890-8295-4	H - 4	Total/NA	Solid	8015 NM	
890-8295-5	H - 5	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 112382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Soluble	Solid	DI Leach	
890-8295-2	H - 2	Soluble	Solid	DI Leach	
890-8295-3	H - 3	Soluble	Solid	DI Leach	
890-8295-4	H - 4	Soluble	Solid	DI Leach	
890-8295-5	H - 5	Soluble	Solid	DI Leach	
MB 880-112382/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112382/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112382/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59352-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-59352-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 112399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8295-1	H - 1	Soluble	Solid	300.0	112382
890-8295-2	H - 2	Soluble	Solid	300.0	112382
890-8295-3	H - 3	Soluble	Solid	300.0	112382
890-8295-4	H - 4	Soluble	Solid	300.0	112382
890-8295-5	H - 5	Soluble	Solid	300.0	112382
MB 880-112382/1-A	Method Blank	Soluble	Solid	300.0	112382
LCS 880-112382/2-A	Lab Control Sample	Soluble	Solid	300.0	112382
LCSD 880-112382/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112382
880-59352-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	112382
880-59352-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	112382

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## Lab Chronicle

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

Client Sample ID: H - 1

Lab Sample ID: 890-8295-1

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

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	112385	06/17/25 08:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112391	06/17/25 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112524	06/17/25 13:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			112487	06/17/25 21:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112398	06/17/25 09:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112426	06/17/25 21:13	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	112382	06/16/25 18:27	SMC	EET MID
Soluble	Analysis	300.0		1			112399	06/17/25 13:55	CH	EET MID

Client Sample ID: H - 2

Lab Sample ID: 890-8295-2

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	112385	06/17/25 08:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112391	06/17/25 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112524	06/17/25 13:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			112487	06/17/25 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112398	06/17/25 09:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112426	06/17/25 21:58	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	112382	06/16/25 18:27	SMC	EET MID
Soluble	Analysis	300.0		1			112399	06/17/25 14:12	CH	EET MID

Client Sample ID: H - 3

Lab Sample ID: 890-8295-3

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	112385	06/17/25 08:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112391	06/17/25 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112524	06/17/25 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			112487	06/17/25 22:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112398	06/17/25 09:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112426	06/17/25 22:13	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	112382	06/16/25 18:27	SMC	EET MID
Soluble	Analysis	300.0		1			112399	06/17/25 14:18	CH	EET MID

Client Sample ID: H - 4

Lab Sample ID: 890-8295-4

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

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	112385	06/17/25 08:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112391	06/17/25 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112524	06/17/25 14:06	SM	EET MID

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## Lab Chronicle

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

Client Sample ID: H - 4

Lab Sample ID: 890-8295-4

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

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			112487	06/17/25 22:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112398	06/17/25 09:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112426	06/17/25 22:28	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	112382	06/16/25 18:27	SMC	EET MID
Soluble	Analysis	300.0		1			112399	06/17/25 14:23	CH	EET MID

Client Sample ID: H - 5

Lab Sample ID: 890-8295-5

Date Collected: 06/16/25 00:00

Matrix: Solid

Date Received: 06/16/25 16:09

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	112385	06/17/25 08:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112391	06/17/25 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112524	06/17/25 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			112487	06/17/25 22:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	112398	06/17/25 09:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112426	06/17/25 22:43	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	112382	06/16/25 18:27	SMC	EET MID
Soluble	Analysis	300.0		1			112399	06/17/25 14:29	CH	EET MID

## Laboratory References:

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



Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

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	06-30-25
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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8295-1  
SDG: 2754

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8295-1	H - 1	Solid	06/16/25 00:00	06/16/25 16:09	0-5
890-8295-2	H - 2	Solid	06/16/25 00:00	06/16/25 16:09	0-5
890-8295-3	H - 3	Solid	06/16/25 00:00	06/16/25 16:09	0-5
890-8295-4	H - 4	Solid	06/16/25 00:00	06/16/25 16:09	0-5
890-8295-5	H - 5	Solid	06/16/25 00:00	06/16/25 16:09	0-5

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

## Chain of Custody

Work Order No: \_\_\_\_\_


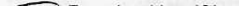
Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall 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:	laci.luig@coterra.com & ashton.thielke@coterra.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level I <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

[illegible]

Please send results to [cmoehring@carmonaresources.com](mailto:cmoehring@carmonaresources.com) and [mcarmona@carmonaresources.com](mailto:mcarmona@carmonaresources.com)

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	Relinquished by: (Signature)		Received by: (Signature)		Date/Time
1				6-16-25 4:09	2				
3					4				
5					6				

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-8295-1

SDG Number: 2754

**Login Number: 8295****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	Refer to Job Narrative for details.
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: 890-8295-1

SDG Number: 2754

**Login Number: 8295****List Number: 2****Creator: Rios, Minerva****List Source: Eurofins Midland****List Creation: 06/17/25 08:28 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	





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

July 28, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: HORNSBY 35 FEDERAL COM #002

Enclosed are the results of analyses for samples received by the laboratory on 07/25/25 13:59.

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](http://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' at the beginning.

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:	07/25/2025	Sampling Date:	07/25/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #002	Sampling Condition:	Cool & Intact
Project Number:	2754	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: CS - 1 2.5' (H254541-01)**

BTX 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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	07/28/2025	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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\*=Accredited Analyte

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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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 2 2.5' (H254541-02)**

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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/28/2025	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 3 2.5' (H254541-03)**

BTX 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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	64.0	16.0	07/28/2025	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 4 2.5' (H254541-04)**

BTX 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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	64.0	16.0	07/28/2025	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.2 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 5 2.5' (H254541-05)**

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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	400	16.0	07/28/2025	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.2 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 6 2.5' (H254541-06)**

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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	96.0	16.0	07/28/2025	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.1 % 40.6-153

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\*=Accredited Analyte

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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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 7 2.5' (H254541-07)**

BTX 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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	432	16.0	07/28/2025	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 67.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.2 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 8 2.5' (H254541-08)**

BTX 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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 64.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.1 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 9 2.5' (H254541-09)**

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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 72.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.8 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 10 2.5' (H254541-10)**

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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	240	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.6 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 11 2.5' (H254541-11)**

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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	272	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.0 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 12 2.5' (H254541-12)**

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	07/25/2025	ND	1.85	92.6	2.00	2.34		
Toluene*	<0.050	0.050	07/25/2025	ND	1.94	96.8	2.00	3.22		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.03	101	6.00	1.91		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	1650	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 69.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.1 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 13 2.5' (H254541-13)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	240	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.6 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 14 2.5' (H254541-14)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTEX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1410	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 15 2.5' (H254541-15)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTEX	<0.300	0.300	07/25/2025	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	272	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 74.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.2 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 2.5' (H254541-16)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15	
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62	
Total BTEx	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.4 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 2.5' (H254541-17)**

BTX 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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 63.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 62.6 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 2.5' (H254541-18)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15	
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62	
Total BTEx	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.4 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 2.5' (H254541-19)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 55.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 52.7 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 2.5' (H254541-20)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15	
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62	
Total BTEx	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	190	95.0	200	4.54	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	199	99.3	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 64.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.8 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 2.5' (H254541-21)**

BTX 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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.0 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 2.5' (H254541-22)**

BTX 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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTX	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.1 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 8 2.5' (H254541-23)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.4 % 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: 07/25/2025  
 Reported: 07/28/2025  
 Project Name: HORNSBY 35 FEDERAL COM #002  
 Project Number: 2754  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 9 2.5' (H254541-24)**

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	07/25/2025	ND	1.96	98.1	2.00	1.15		
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73		
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67		
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62		
Total BTEx	<0.300	0.300	07/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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".

---

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

1854541

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall 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@cimarex.com & ashton.thielke@coterra.com

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/>	Level III <input type="checkbox"/>
Reporting Level II <input type="checkbox"/>	PST/UST <input type="checkbox"/>
Reporting Level III <input type="checkbox"/>	TRRP <input type="checkbox"/>
Reporting Level IV <input type="checkbox"/>	Level N <input type="checkbox"/>
Deliverables: EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>
Other:	

Project Name:	Hornsby 35 Federal Com 2	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Due Date:	24 HR TAT	Parameters	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2754																		None: NO DI Water: H <sub>2</sub> O		
Project Location:	Eddy Co, NM																		Cool: Cool MeOH: Me		
Sampler's Name:	JDC																		HCL: HC HNO <sub>3</sub> : HN		
PO #:																			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:	#140													H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	+0.3°C													NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	4.8°C													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected Temperature:	5.1°C													Zn Acetate+NaOH: Zn					
Total Containers:														NaOH+Ascorbic Acid: SAPC							
Sample Identification	Date	Time	Soil	Depth	Grab/Comp	# of Cont													Sample Comments		
CS-1	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-2	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-3	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-4	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-5	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-6	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-7	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-8	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-9	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					
CS-10	7/25/2025		X	2.5'	Comp	1	X	X	X	X	X	X	X	X	X	X					

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7-25-25 1354			



Chain of Custody

Work Order No:

AB24541

Page 2 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cinatrex Energy
Address:	310 West Wall 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 <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Hornsby 35 Federal Com 2	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes				
Project Number:	2754	Due Date:	24 HR TAT														None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Eddy Co. NM																Cool: Cool	MeOH: Me	
Sampler's Name:	JDC																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters										HOLD	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#140											NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	+0.3°C											Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.8°C											Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:	5.1°C											NaOH+Ascorbic Acid: SAPC					
Sample Identification	Date	Time	Soil	Depth	Grab/Comp	# of Cont											Sample Comments		
CS-11	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
CS-12	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
CS-13	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
CS-14	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
CS-15	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
SW-1	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
SW-2	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
SW-3	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
SW-4	7/25/2025		X	2.5'	Comp	1	X	X	X	X									
SW-5	7/25/2025		X	2.5'	Comp	1	X	X	X	X									

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

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



Chain of Custody

Work Order No:

HA254541

Page \_\_3\_\_ of \_\_3\_\_

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cinatrex Energy
Address:	310 West Wall 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 <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Hornby 35 Federal Com 2	Turn Around		ANALYSIS REQUEST												Preservative Codes						
Project Number:	2754	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Pres. Code													None: NO	DI Water: H <sub>2</sub> O				
Project Location:	Eddy Co, NM	Due Date:	24 HR TAT														Cool: Cool	MeOH: Me				
Sampler's Name:	JDC																HCL: HC	HNO <sub>3</sub> : HN				
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na				
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters													HOLD	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#140					BTEX 8021B										NaHSO <sub>4</sub> : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	+0.3°C					TPH 8015M ( GRO + DRO + MRO)										Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>				
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.8°C					Chloride 4500										Zn Acetate+NaOH: Zn				
Total Containers:		Corrected Temperature:	5.1°C															NaOH+Ascorbic Acid: SAsPC				
Sample Identification	Date	Time	Soil	Depth	Grab/Comp	# of Cont												Sample Comments				
SW-6	7/25/2025		X	2.5'	Comp	1	X	X	X													
SW-7	7/25/2025		X	2.5'	Comp	1	X	X	X													
SW-8	7/25/2025		X	2.5'	Comp	1	X	X	X													
SW-9	7/25/2025		X	2.5'	Comp	1	X	X	X													

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

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



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 7/31/2025 3:29:06 PM

## JOB DESCRIPTION

HORNSBY 35 FEDERAL COM 2  
2754

## JOB NUMBER

890-8548-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## 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  
7/31/2025 3:29:06 PM

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

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Laboratory Job ID: 890-8548-1  
SDG: 2754

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## Definitions/Glossary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1

**Job ID: 890-8548-1**

**Eurofins Carlsbad**

### Job Narrative 890-8548-1

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 7/30/2025 2:35 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 5.8°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 12 (890-8548-1) and CS - 14 (890-8548-2).

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-115467 and analytical batch 880-115462 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.

#### 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 Carlsbad

## Client Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

Client Sample ID: CS - 12

Lab Sample ID: 890-8548-1

Date Collected: 07/30/25 00:00

Matrix: Solid

Date Received: 07/30/25 14:35

Sample Depth: 2.75'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		07/31/25 08:25	07/31/25 11:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/31/25 08:25	07/31/25 11:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/31/25 08:25	07/31/25 11:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/31/25 08:25	07/31/25 11:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/31/25 08:25	07/31/25 11:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/31/25 08:25	07/31/25 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/31/25 08:25	07/31/25 11:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/31/25 08:25	07/31/25 11:30	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/31/25 11:30	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			07/31/25 10:15	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		07/30/25 14:59	07/31/25 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/25 14:59	07/31/25 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/25 14:59	07/31/25 10:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	07/30/25 14:59	07/31/25 10:15	1
o-Terphenyl (Surr)	99		70 - 130	07/30/25 14:59	07/31/25 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			07/31/25 09:12	1

Client Sample ID: CS - 14

Lab Sample ID: 890-8548-2

Date Collected: 07/30/25 00:00

Matrix: Solid

Date Received: 07/30/25 14:35

Sample Depth: 2.75'

## 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		07/31/25 08:25	07/31/25 11:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/31/25 08:25	07/31/25 11:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/31/25 08:25	07/31/25 11:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/31/25 08:25	07/31/25 11:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/31/25 08:25	07/31/25 11:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/31/25 08:25	07/31/25 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/31/25 08:25	07/31/25 11:50	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

Client Sample ID: CS - 14

Lab Sample ID: 890-8548-2

Date Collected: 07/30/25 00:00

Matrix: Solid

Date Received: 07/30/25 14:35

Sample Depth: 2.75'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	07/31/25 08:25	07/31/25 11:50	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			07/31/25 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/31/25 10:30	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		07/30/25 14:59	07/31/25 10:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/30/25 14:59	07/31/25 10:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/25 14:59	07/31/25 10:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	96		70 - 130				07/30/25 14:59	07/31/25 10:30	1
o-Terphenyl (Surr)	99		70 - 130				07/30/25 14:59	07/31/25 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		10.1		mg/Kg			07/31/25 09:29	1

## Surrogate Summary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

## 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)
890-8548-1	CS - 12	103	92
890-8548-1 MS	CS - 12	101	101
890-8548-1 MSD	CS - 12	85	116
890-8548-2	CS - 14	94	105
LCS 880-115467/1-A	Lab Control Sample	102	102
LCSD 880-115467/2-A	Lab Control Sample Dup	106	102
MB 880-115467/5-A	Method Blank	105	96
<b>Surrogate Legend</b>			
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)
880-60937-A-21-B MS	Matrix Spike	103	99
880-60937-A-21-C MSD	Matrix Spike Duplicate	103	99
890-8548-1	CS - 12	97	99
890-8548-2	CS - 14	96	99
LCS 880-115436/2-A	Lab Control Sample	118	119
LCSD 880-115436/3-A	Lab Control Sample Dup	116	116
MB 880-115436/1-A	Method Blank	97	109
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			



## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

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

Lab Sample ID: MB 880-115467/5-A

Matrix: Solid

Analysis Batch: 115462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/31/25 08:25	07/31/25 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/25 08:25	07/31/25 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/25 08:25	07/31/25 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/31/25 08:25	07/31/25 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/25 08:25	07/31/25 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/31/25 08:25	07/31/25 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/31/25 08:25	07/31/25 11:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/31/25 08:25	07/31/25 11:08	1

Lab Sample ID: LCS 880-115467/1-A

Matrix: Solid

Analysis Batch: 115462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08188		mg/Kg		82	70 - 130
Toluene	0.100	0.07979		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.09079		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1810		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09030		mg/Kg		90	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 880-115467/2-A

Matrix: Solid

Analysis Batch: 115462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115467

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09778		mg/Kg		98	70 - 130	18	35
Toluene	0.100	0.09248		mg/Kg		92	70 - 130	15	35
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130	14	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-8548-1 MS

Matrix: Solid

Analysis Batch: 115462

Client Sample ID: CS - 12

Prep Type: Total/NA

Prep Batch: 115467

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.100	0.08845		mg/Kg		88	70 - 130
Toluene	<0.00201	U	0.100	0.08412		mg/Kg		84	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

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

Lab Sample ID: 890-8548-1 MS

Matrix: Solid

Analysis Batch: 115462

Client Sample ID: CS - 12

Prep Type: Total/NA

Prep Batch: 115467

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09548		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1883		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.100	0.09343		mg/Kg		93	70 - 130

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

Lab Sample ID: 890-8548-1 MSD

Matrix: Solid

Analysis Batch: 115462

Client Sample ID: CS - 12

Prep Type: Total/NA

Prep Batch: 115467

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.100	0.06853	F1	mg/Kg		69	70 - 130	25	35
Toluene	<0.00201	U	0.100	0.07791		mg/Kg		78	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.100	0.09267		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1896		mg/Kg		95	70 - 130	1	35
o-Xylene	<0.00201	U	0.100	0.09218		mg/Kg		92	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

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

Lab Sample ID: MB 880-115436/1-A

Matrix: Solid

Analysis Batch: 115469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115436

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		07/30/25 14:59	07/31/25 07:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/25 14:59	07/31/25 07:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/25 14:59	07/31/25 07:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	07/30/25 14:59	07/31/25 07:15	1
o-Terphenyl (Surr)	109		70 - 130	07/30/25 14:59	07/31/25 07:15	1

Lab Sample ID: LCS 880-115436/2-A

Matrix: Solid

Analysis Batch: 115469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	885.7		mg/Kg		89	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

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

Lab Sample ID: LCS 880-115436/2-A

Matrix: Solid

Analysis Batch: 115469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115436

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	119		70 - 130

Lab Sample ID: LCSD 880-115436/3-A

Matrix: Solid

Analysis Batch: 115469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	850.9		mg/Kg		85	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: 880-60937-A-21-B MS

Matrix: Solid

Analysis Batch: 115469

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 115436

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	997	864.3		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	770.9		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 880-60937-A-21-C MSD

Matrix: Solid

Analysis Batch: 115469

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 115436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	868.9		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	798.0		mg/Kg		80	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	99		70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115458/1-A

Matrix: Solid

Analysis Batch: 115478

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			07/31/25 08:55	1

Lab Sample ID: LCS 880-115458/2-A

Matrix: Solid

Analysis Batch: 115478

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.7		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-115458/3-A

Matrix: Solid

Analysis Batch: 115478

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	237.6		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-8548-1 MS

Matrix: Solid

Analysis Batch: 115478

Client Sample ID: CS - 12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.0	U	251	251.2		mg/Kg		97	90 - 110

Lab Sample ID: 890-8548-1 MSD

Matrix: Solid

Analysis Batch: 115478

Client Sample ID: CS - 12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.0	U	251	252.0		mg/Kg		97	90 - 110	0	20

## QC Association Summary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

## GC VOA

## Analysis Batch: 115462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Total/NA	Solid	8021B	115467
890-8548-2	CS - 14	Total/NA	Solid	8021B	115467
MB 880-115467/5-A	Method Blank	Total/NA	Solid	8021B	115467
LCS 880-115467/1-A	Lab Control Sample	Total/NA	Solid	8021B	115467
LCSD 880-115467/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115467
890-8548-1 MS	CS - 12	Total/NA	Solid	8021B	115467
890-8548-1 MSD	CS - 12	Total/NA	Solid	8021B	115467

## Prep Batch: 115467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Total/NA	Solid	5035	
890-8548-2	CS - 14	Total/NA	Solid	5035	
MB 880-115467/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115467/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115467/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8548-1 MS	CS - 12	Total/NA	Solid	5035	
890-8548-1 MSD	CS - 12	Total/NA	Solid	5035	

## Analysis Batch: 115545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Total/NA	Solid	Total BTEX	
890-8548-2	CS - 14	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 115436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Total/NA	Solid	8015NM Prep	
890-8548-2	CS - 14	Total/NA	Solid	8015NM Prep	
MB 880-115436/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115436/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-115436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60937-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-60937-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 115469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Total/NA	Solid	8015B NM	115436
890-8548-2	CS - 14	Total/NA	Solid	8015B NM	115436
MB 880-115436/1-A	Method Blank	Total/NA	Solid	8015B NM	115436
LCS 880-115436/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115436
LCSD 880-115436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115436
880-60937-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	115436
880-60937-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	115436

## Analysis Batch: 115507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Total/NA	Solid	8015 NM	
890-8548-2	CS - 14	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

HPLC/IC

Leach Batch: 115458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Soluble	Solid	DI Leach	
890-8548-2	CS - 14	Soluble	Solid	DI Leach	
MB 880-115458/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115458/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115458/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8548-1 MS	CS - 12	Soluble	Solid	DI Leach	
890-8548-1 MSD	CS - 12	Soluble	Solid	DI Leach	

Analysis Batch: 115478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8548-1	CS - 12	Soluble	Solid	300.0	115458
890-8548-2	CS - 14	Soluble	Solid	300.0	115458
MB 880-115458/1-A	Method Blank	Soluble	Solid	300.0	115458
LCS 880-115458/2-A	Lab Control Sample	Soluble	Solid	300.0	115458
LCSD 880-115458/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115458
890-8548-1 MS	CS - 12	Soluble	Solid	300.0	115458
890-8548-1 MSD	CS - 12	Soluble	Solid	300.0	115458

Lab Chronicle

Client: Carmona Resources  
Project/Site: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

Client Sample ID: CS - 12

Lab Sample ID: 890-8548-1

Date Collected: 07/30/25 00:00

Matrix: Solid

Date Received: 07/30/25 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115467	07/31/25 08:25	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115462	07/31/25 11:30	EL	EET MID
Total/NA	Analysis	Total BTEX		1			115545	07/31/25 11:30	SA	EET MID
Total/NA	Analysis	8015 NM		1			115507	07/31/25 10:15	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115436	07/30/25 14:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115469	07/31/25 10:15	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	115458	07/31/25 07:47	SA	EET MID
Soluble	Analysis	300.0		1			115478	07/31/25 09:12	CS	EET MID

Client Sample ID: CS - 14

Lab Sample ID: 890-8548-2

Date Collected: 07/30/25 00:00

Matrix: Solid

Date Received: 07/30/25 14:35

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	115467	07/31/25 08:25	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115462	07/31/25 11:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			115545	07/31/25 11:50	SA	EET MID
Total/NA	Analysis	8015 NM		1			115507	07/31/25 10:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115436	07/30/25 14:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115469	07/31/25 10:30	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115458	07/31/25 07:47	SA	EET MID
Soluble	Analysis	300.0		1			115478	07/31/25 09:29	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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

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: HORNSBY 35 FEDERAL COM 2

Job ID: 890-8548-1  
SDG: 2754

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8548-1	CS - 12	Solid	07/30/25 00:00	07/30/25 14:35	2.75'
890-8548-2	CS - 14	Solid	07/30/25 00:00	07/30/25 14:35	2.75'

- 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 Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 500	Address:	600 N Martenfield 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 <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Hornsbly 35 Federal Com 2		Turn Around			
Project Number:		2754		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code	
Project Location:		Eddy Co. NM		Due Date:		24 HR TAT	
Sampler's Name:		JDC					
PO #:							
SAMPLE RECEIPT				Temp Blank:		<input checked="" type="radio"/> Yes <input type="radio"/> No	
Received Intact				<input checked="" type="radio"/> Yes <input type="radio"/> No		Thermometer ID:	
Cooler Custody Seals:				<input checked="" type="radio"/> Yes <input type="radio"/> No		Correction Factor:	
Sample Custody Seals:				<input checked="" type="radio"/> Yes <input type="radio"/> No		Temperature Reading:	
Total Containers:				Corrected Temperature:		-0.2 6.8 5.8	
Parameters							
BTEX 8021B							
H 8015M ( GRO + DRO + MRO)							
Chloride 300							
<div>  </div>							
890-8548 Chain of Custody							
HOLD							
None: NO				DI Water: H <sub>2</sub> O			
Cool: Cool				MeOH: Me			
HCL: HC				HNO <sub>3</sub> : HN			
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>				NaOH: Na			
H <sub>3</sub> PO <sub>4</sub> : HP							
NaHSO <sub>4</sub> : NABIS							
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub>							
Zn Acetate+NaOH: Zn							
NaOH+Ascorbic Acid: SAPC							

[illegible]

**Please send results to [cmoehring@carmonaresources.com](mailto:cmoehring@carmonaresources.com) and [mcarmona@carmonaresources.com](mailto:mcarmona@carmonaresources.com)**

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7/30/14 3:55			

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-8548-1

SDG Number: 2754

Login Number: 8548

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	Refer to Job Narrative for details.
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: 890-8548-1

SDG Number: 2754

Login Number: 8548

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 07/31/25 07:42 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	



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

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July 28, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: HORNSBY 35 FEDERAL COM #002

Enclosed are the results of analyses for samples received by the laboratory on 07/25/25 13:59.

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](http://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, flowing style.

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:	07/25/2025	Sampling Date:	07/25/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #002	Sampling Condition:	Cool & Intact
Project Number:	2754	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BACKFILL (H254542-01)**

BTX 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	07/25/2025	ND	1.96	98.1	2.00	1.15	
Toluene*	<0.050	0.050	07/25/2025	ND	1.93	96.4	2.00	1.73	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	2.02	101	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	6.39	107	6.00	2.62	
Total BTX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	16.0	16.0	07/28/2025	ND	464	116	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	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 129 % 44.4-145

Surrogate: 1-Chlorooctadecane 127 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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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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Cardinal Laboratories

\*=Accredited Analyte

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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.:**

H254522

Page 1 of 1[illegible]

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 491818

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 491818
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2516049014
Incident Name	NAPP2516049014 HORNSBY 35 FED COM 2 @ 30-015-42165
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42165] HORNSBY 35 FEDERAL COM #002H

**Location of Release Source***Please answer all the questions in this group.*

Site Name	HORNSBY 35 FED COM 2
Date Release Discovered	06/08/2025
Surface Owner	Federal

**Incident Details***Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a 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: Corrosion   Valve   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)	Not answered.

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 491818

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 491818
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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.
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	Valve was replaced , Fluid was sucked up.

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: 08/04/2025
--	--

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, Page 3

Action 491818

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 491818
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<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)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households 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 1 and 5 (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 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1650
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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	07/23/2025
On what date will (or did) the final sampling or liner inspection occur	07/30/2025
On what date will (or was) the remediation complete(d)	08/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	1824
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	1824
What is the estimated volume (in cubic yards) that will be remediated	160
<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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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 491818

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 491818
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	<a href="#">fEEM0112342028 LEA LAND LANDFILL</a>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: <a href="mailto:Ashton.Thielke@coterra.com">Ashton.Thielke@coterra.com</a> Date: 08/04/2025
<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 491818

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 491818
	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 491818

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 491818
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	489154
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	1800

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	1824
What was the total volume (cubic yards) remediated	160
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)	All contaminated material was excavated from the site and verified with composite confirmation samples. The area was backfilled with clean caliche. The entire well pad will be reclaimed per NMAC 19.15.29.13 during normal P/A operations.
<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: 08/04/2025

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Action 491818

QUESTIONS (continued)

Operator:  CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID:  162683
	Action Number:  491818
	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 491818

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 491818
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	9/18/2025