

#### SITE INFORMATION

Closure Report
Little Betty 20 701 H (04.13.2025)
Incident ID: NAPP2510433552
Eddy County, New Mexico
Unit A, Sec 20, T21S, R28E
32.469602, -104.100716

Produced Water and Crude Oil Release

Point of Release: Hammer union leaking from the wellhead flowline

Release Date: 04.13.2025

Release Date. 04.13.2023

Volume Released: 10 Barrels of Crude Oil and 10 Barrels of Produced Water Volume Recovered: 0 Barrels of Crude Oil and 0 Barrels of Produced Water

### CARMONA RESOURCES



Prepared for: Coterra Energy 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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May 9, 2025

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

Re: Closure Report

Little Betty 20 701H (04.13.2025) Incident ID: NAPP2510433552 Coterra Energy Operating Co. Site Location: Unit A, S11, T21S, R28E

32.469602, -104.100716 Eddy County, New Mexico

#### Mr. Bratcher:

At the request of Coterra Energy Operating Co. (Coterra, formerly known as Avant Operating, LLC) Carmona Resources LLC, has prepared this letter to document the site remediation conducted at the Little Betty 20 701H (Site) located at 32.469602, -104.100716 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 April 13, 2025, due to a hammer union leaking from the well head flow line. It resulted in approximately ten (10) barrels of produced water and ten (10) barrels of crude oil being released on pad, with zero (0) barrels recovered. The release area is approximately 1,049 sq ft. The spill boundaries are shown in Figure 3. The initial C-141 form is attached in Appendix C.

#### 2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest identified well is approximately 0.43 miles Northwest of the site in S17, T21S, R28E, and was drilled in 2022. The well has a reported depth to groundwater of 65.1' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

#### 3.0 NMAC Regulatory Criteria

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

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

#### 4.0 Remediation Activities

Between April 28, 2025, and May 8, 2025, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities.

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



Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on April 23, 2025, and May 1, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of CS-1 to CS-7 were excavated to a depth of 1' bgs. A total of seven (7) confirmation floor samples were collected (CS-1 through CS-7), and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure the proper removal of the contaminated soils. 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 120 cubic yards of 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.

#### **5.0 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 April 23, 2025 per Subsection D of 19.15.29.12 NMAC. See Appendix C for the NMOCD correspondence prior to performing the liner inspection. On April 29, 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.

#### **6.0 Conclusions**

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

Sincerely,

Carmona Resources, LLC

Ashton Thielke

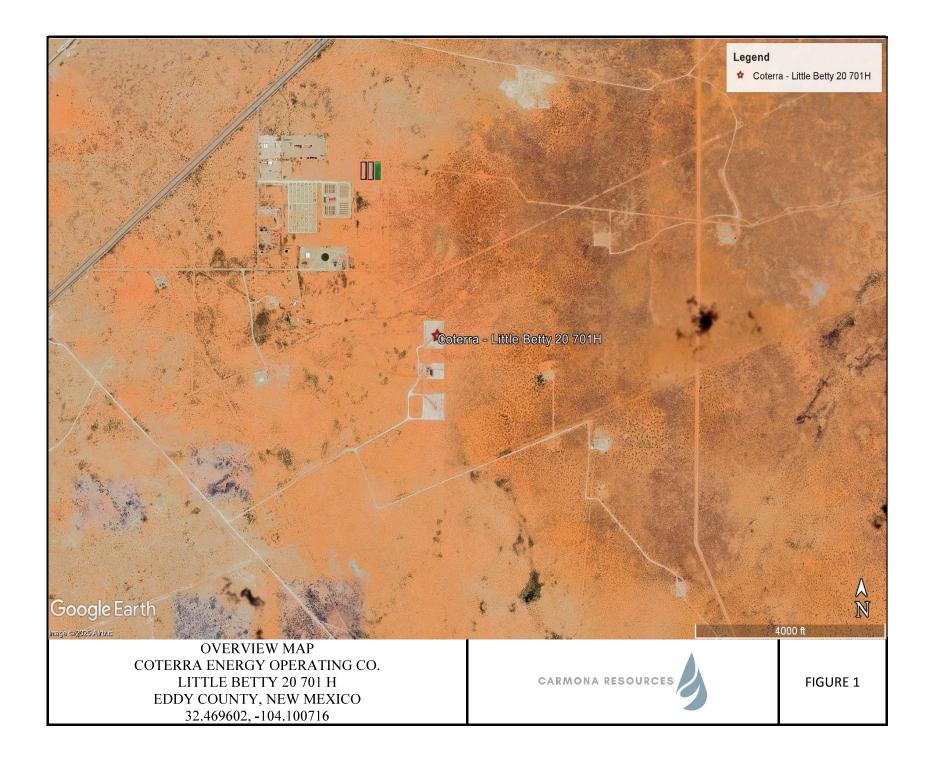
**Environmental Manager** 

Riley Plogger Project Manager

Riley Plogger

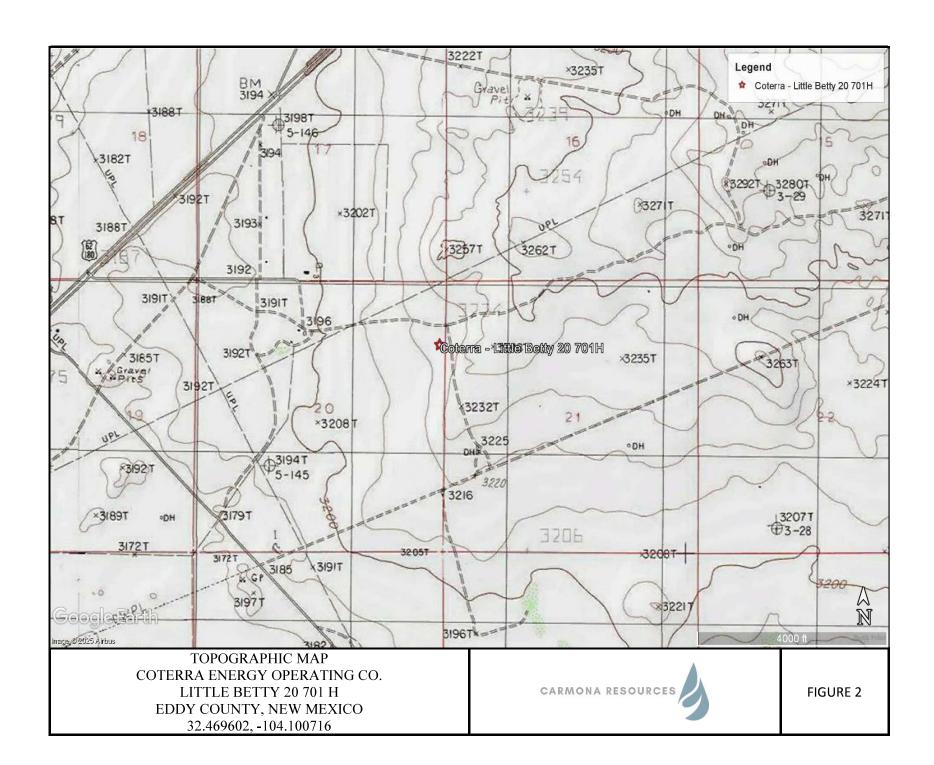
### **FIGURES**

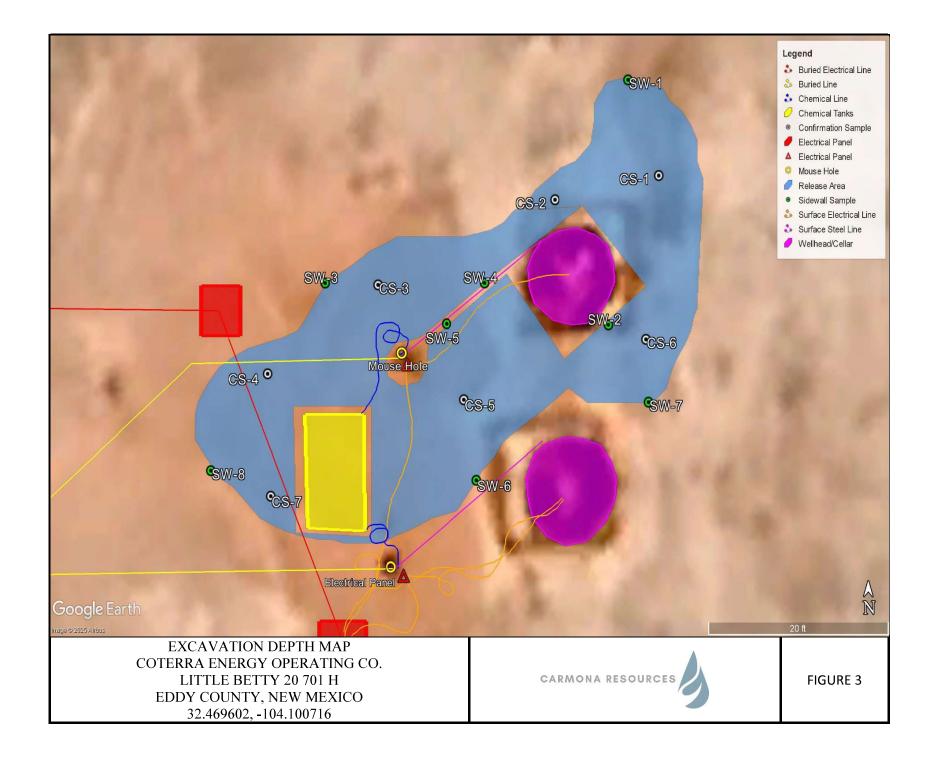
# CARMONA RESOURCES



Released to Imaging: 5/20/2025 1:42:03 PM

Received by OCD: 5/12/2025 9:43:14 AM





Released to Imaging: 5/20/2025 1:42:03 PM

### **APPENDIX A**

# CARMONA RESOURCES

Table 1
Coterra Energy Operating
Little Betty 20 (04.13.2025)
Eddy County, New Mexico

<b>,,</b>													
Sample ID	Date	Depth (ft)	GRO	TPH DRO	l (mg/kg) MRO	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Volatile Organic Compounds	Chloride (mg/kg)
CS-1	4/29/2025	1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	(mg/kg) <0.00399	104
CS-2	4/29/2025	1'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<0.00402	134
CS-3	4/29/2025	1'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<0.00404	310
CS-4	4/29/2025	1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	156
CS-5	4/29/2025	1'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<0.0198	287
CS-6	5/5/2025	1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<0.300	224
CS-7	5/5/2025	1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<0.300	128
SW-1	4/29/2025	1'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<0.00404	91.5
SW-2	4/29/2025	1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<0.00402	336
SW-3	4/29/2025	1'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	102
SW-4	4/29/2025	1'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<0.00400	102
SW-5	4/29/2025	1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<0.00399	164
SW-6	4/29/2025	1'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<0.00404	119
SW-7	5/5/2025	1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<0.300	128
SW-8	5/5/2025	1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<0.300	208
Backfill	4/29/2025	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<0.00402	144
	ory Criteria A					100 mg/kg	10 mg/kg				50 mg/kg		600 mg/kg

(-) Not Analyzed
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) Confirmation Sample
(SW) Sidewall Sample

### **APPENDIX B**

# CARMONA RESOURCES

Coterra Energy Operating Co.

#### Photograph No. 1

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View South, area of concern prior to remediation.



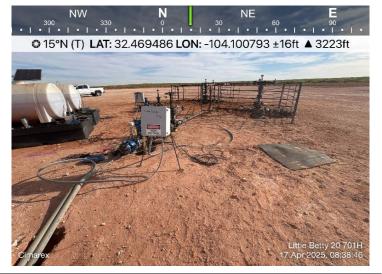
#### Photograph No. 2

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View North, area of concern prior to remediation.



#### Photograph No. 3

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View North, area of concern prior to remediation.





Coterra Energy Operating Co.

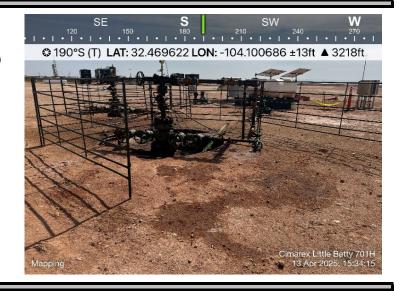
#### Photograph No. 4

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View South, area of concern prior to remediation.



#### Photograph No. 5

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View South, area of concern prior to remediation.



#### Photograph No. 6

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View East, area of concern prior to remediation.





Coterra Energy Operating Co.

#### Photograph No. 7

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View Northeast, Excavated area of SW-3, SW-8, CS-3 and CS-7



#### Photograph No. 8

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View Southwest, Excavated area of CS-1, CS-2, and SW-1



#### Photograph No. 9

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View Northeast, Excavated area of SW-2, SW-7 and

CS-6





Coterra Energy Operating Co.

#### Photograph No. 10

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View North, Excavated area of SW-2 and CS-6



#### Photograph No. 11

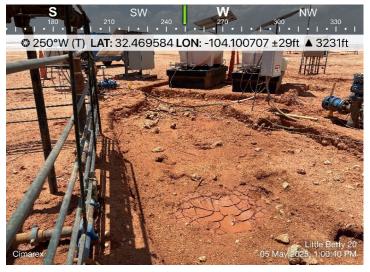
**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View West, Excavated area of CS-5, SW-4, SW-5, and

SW-6



#### Photograph No. 12

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View West, Excavated area of CS-7 and SW-8





Coterra Energy Operating Co.

#### Photograph No. 13

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View West, Cellar of wellhead with fluid removed and power washed.



#### Photograph No. 14

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View West, Cellar of wellhead with fluid removed and power washed.



#### Photograph No. 15

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

#### **Description:**

View Southeast, Backfilled area.





Coterra Energy Operating Co.

#### Photograph No. 16

Facility: Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View East, Backfilled area.



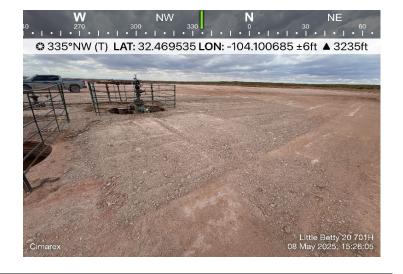
#### Photograph No. 17

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View Northwest, Backfilled area.



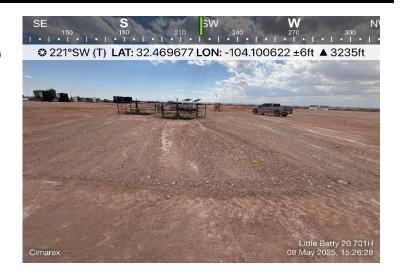
#### Photograph No. 18

**Facility:** Little Betty 20 701H (04.13.2025)

County: Eddy County, New Mexico

**Description:** 

View Southwest, Backfilled area.





### **APPENDIX C**

# CARMONA RESOURCES

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 451464

#### **QUESTIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	451464
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

Location of Release Source				
Please answer all the questions in this group.				
Site Name	Little Betty 20 701H (04.13.2025)			
Date Release Discovered	04/13/2025			
Surface Owner	Private			

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 fo	or the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 10 BBL   Recovered: 10 BBL   Lost: 0 BBL.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 10 BBL   Recovered: 10 BBL   Lost: 0 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The Facility ESD on high water tank level and 701H ESP continued to run against the shut off valve. The hammer union leaking on the well head flow line resulted in a spill of 20 bbls. A vac truck was sent to site to recover material.	

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

Phone: (505) 629-6116

Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

## 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 451464

<b>QUESTIONS</b>	(continued)
WOLU I O 1 1 O 1	icoi iui iu <del>c</del> u <i>i</i>

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	451464
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

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

Initial Response					
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.					
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				

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

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

ACKNOWLEDGMENTS

Action 451464

#### **ACKNOWLEDGMENTS**

ı	Operator:	OGRID:
ı	Avant Operating, LLC	330396
ı	6001 Deauville Blvd	Action Number:
ı	Midland, TX 79706	451464
ı		Action Type:
ı		[NOTIFY] Notification Of Release (NOR)

#### ACKNOWLEDGMENTS

$\overline{\lor}$	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
V	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.
V	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
~	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
~	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
~	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

CONDITIONS

Action 451464

#### **CONDITIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	451464
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### CONDITIONS

Сг	reated By		Condition Date
а	athielke	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/14/2025

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 454537

#### **QUESTIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	454537
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2510433552	
Incident Name	NAPP2510433552 LITTLE BETTY 20 701H (04.13.2025) @ 30-015-54871	
Incident Type	Produced Water Release	
Incident Status	Notification Accepted	
Incident Well	[30-015-54871] LITTLE BETTY 20 #701H	

Location of Release Source		
Site Name	Little Betty 20 701H (04.13.2025)	
Date Release Discovered	04/13/2025	
Surface Owner	Private	

Sampling Event General Information			
Please answer all the questions in this group.			
What is the sampling surface area in square feet	1,400		
What is the estimated number of samples that will be gathered	10		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/29/2025		
Time sampling will commence	03:00 PM		
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988) will be onsite to collect composite confirmation floor and sidewall samples.		
Please provide any information necessary for navigation to sampling site	32.469602,-104.100716		

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

CONDITIONS

Action 454537

#### **CONDITIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	454537
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created B		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.	4/23/2025

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 454540

#### **QUESTIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	454540
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2510433552	
Incident Name	NAPP2510433552 LITTLE BETTY 20 701H (04.13.2025) @ 30-015-54871	
Incident Type	Produced Water Release	
Incident Status	Notification Accepted	
Incident Well	[30-015-54871] LITTLE BETTY 20 #701H	

Location of Release Source		
Site Name	Little Betty 20 701H (04.13.2025)	
Date Release Discovered	04/13/2025	
Surface Owner	Private	

Liner Inspection Event Information			
Please answer all the questions in this group.			
What is the liner inspection surface area in square feet	300		
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	04/29/2025		
Time liner inspection will commence	03:00 PM		
Please provide any information necessary for observers to liner inspection	Carmona Resources (432-813-8988) will be onsite to document the integrity of the cellar at the wellhead. This release occurred at the well head and over sprayed on to the well pad. A sampling notification for the remediation on the well pad has been placed as well.		
Please provide any information necessary for navigation to liner inspection site	32.469602,-104.100716		

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

CONDITIONS

Action 454540

#### **CONDITIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	454540
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### CONDITIONS

Created By		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.	4/23/2025

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 457670

#### **QUESTIONS**

Operator:	OGRID:			
Avant Operating, LLC	330396			
6001 Deauville Blvd	Action Number:			
Midland, TX 79706	457670			
	Action Type:			
	[NOTIFY] Notification Of Sampling (C-141N)			

#### QUESTIONS

Prerequisites							
Incident ID (n#)	nAPP2510433552						
Incident Name	NAPP2510433552 LITTLE BETTY 20 701H (04.13.2025) @ 30-015-54871						
Incident Type	Produced Water Release						
Incident Status	Notification Accepted						
Incident Well	[30-015-54871] LITTLE BETTY 20 #701H						

Location of Release Source						
Site Name	Little Betty 20 701H (04.13.2025)					
Date Release Discovered	04/13/2025					
Surface Owner	Private					

Sampling Event General Information									
Please answer all the questions in this group.									
What is the sampling surface area in square feet	1,400								
What is the estimated number of samples that will be gathered	10								
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/05/2025								
Time sampling will commence	09:00 AM								
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988) will be onsite to collect composite confirmation floor and sidewall samples.								
Please provide any information necessary for navigation to sampling site	32.469602,-104.100716								

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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 457670

#### **CONDITIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	457670
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created By		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.	5/1/2025



### **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.

Facility ID:

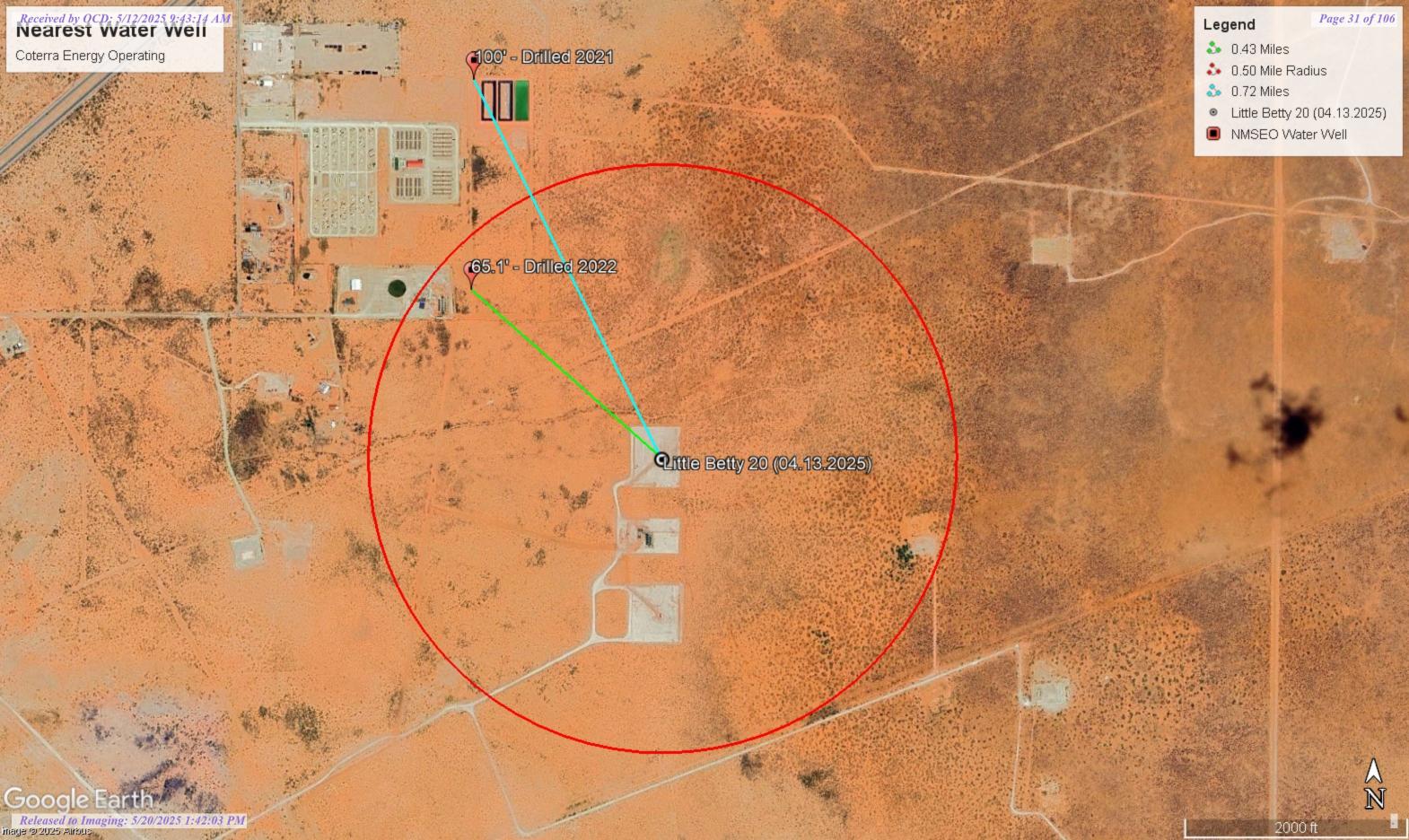
Date: 05/9/2025

Incident ID(s): NAPP2510433552

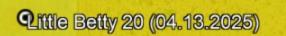
- ☑ Responsible Party has visually inspected the liner.
- ✓ Liner remains intact and was able to contain the leak in question.
- At least two business days' notice was given to the appropriate division district office before conducting the liner inspection.
- ☑ Photographs illustrating liner integrity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

### **APPENDIX D**

# CARMONA RESOURCES



Received by OCD: 5/12/2025 9:43:14 AM WIEGIUM Karst Coterra Energy Operating



Google Earth

Released to Imaging: 5/20/2025 1:42:03 PM
Image © 2025 Airbus

1000 ft

Page 32 of 106

Little Betty 20 (04.13.2025)

Legend

Medium



### 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.)

**POD Number** 

CP 01914 POD1

CP 01710 POD2

CP 01710 POD1

CP 01893 POD1

<u>CP 01893 POD2</u> <u>CP 00569</u>

CP 01893 POD3

CP 00527 POD1

CP 01744 POD1

CP 00529 POD1

CP 00627 POD2

CP 01861 POD1

CP 00576

CP 00627

CP 00650

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

Code

Sub

CP

basin Cou

ED

LE

ED

ED

(quarters are smallest to largest)

NE

NE

NE

NE

NW

SW

NW

NW

SE

SW 17

SW 17

SW 17

SW 17

SW 17

SE 08

21S 28E

21S 28E

21S 28E

21S 28E

21S 28E

21S 28E

	smallest to largest) (										(meters) (In feet)		
ınty	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth	Depth Water	
	SE	SW	NE	17	21S	28E	583981.1	3593301.3	•	696			
	NW	SW	SE	17	21S	28E	583971.3	3593509.7	•	853	160	149	11
	NW	SW	SE	17	21S	28E	583936.0	3593547.6	•	905	160	151	9
	SE	NW	SE	17	21S	28E	584041.4	3593739.4	•	1008	92	86	6
	SE	NW	SE	17	21S	28E	583984.4	3593809.7	•	1097	90	75	15
		SE	SW	17	21S	28E	583549.0	3593414.0 *	•	1114	71	50	21
	NE	NW	SE	17	21S	28E	583983.9	3593871.9	•	1152	120	100	20
	NW	SE	SW	17	21S	28E	583448.0	3593513.0 *	•	1252	295	32	263
		NE	SW	17	21S	28E	583547.0	3593816.0 *	•	1365	154	30	124

583446.0 3593715.0 \*

583347.0 3593612.0 \*

583446.0 3593915.0 \*

583359.6 3593982.5

584023.2 3595285.5

583475.8 3593764.2

Average Depth to Water: 78 feet

100

90

155

100

175

160

1372

1381

1391

1507

1615

2487

Minimum Depth: 30 feet

82

35

70

8

120

90

Maximum Depth: 151 feet

**Record Count:** 15

#### **UTM Filters (in meters):**

**Easting:** 584507.88 **Northing:** 3592845.52

**Radius: 2500** 

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.

<sup>\*</sup> UTM location was derived from PLSS - see Help



	OSE POD NO	. (WELL N	NO.)						OSE FILE NO(S).						
GENERAL AND WELL LOCATION	POD-1										CP-1914				
	WELL OWNER NAME(S) WaterBridge Stateline LLC									PHONE (OPTIONAL)					
Γ0	-														
WELL	WELL OWNER MAILING ADDRESS 5555 San Felipe, Suite 1200									ton			STAT TX	те 77056	ZIP
	3333 Ban 1	chipe, b							Hous					77050	
AND	WELL			DE	GREES 32	MINUTES 28	SECO	51							
MI	LOCATIO		ATITU					N			REQUIRED: OUIRED: WGS		H OF A	A SECOND	
NER	(FROM GF	PS) L	ONGI	TUDE	104	6	22	.61 W	+ DA1	OM REC	(UIRED: WGS	04			
GE		DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE  SE SW SE Sec 17 T218 P.28E													
1	SE SW SE Sec.17 T21S R28E														
	LICENSE NO	).	1	NAME OF LICENSED	DRILLER						NAME OF V	VELL DRII	LLING	COMPANY	
	124	49				Jackie D. Atkin	S				Atl	cins Engi	neerir	ng Associates, In	ıc.
	DRILLING S		I	DRILLING ENDED		OMPLETED WELL (	FT)	BORE HO		TH (FT)	DEPTH WA			OUNTERED (FT)	
	8/18/2	2022		8/19/2000		soil boring		:	±79				unkr	nown	
	COMPLETE	D WELL IS	S:	ARTESIAN	DRY HO	LE SHALL	OW (UNC	ONFINED)			WATER LEVE PLETED WELI		.1	DATE STATIC 1 8/19/2	
ON				puntog						(FT)				0/19/2	022
[AT]	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:  DRILLING FLUID: POTARY HAMMER CARLETOOL OTHER – SPECIFY: Hollow Stem Auger CHECK HERE IF PITLESS ADAPTER IS														
2. DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: Hollow Stem Auger INSTALLED														
	DEPTH (feet bgl)			BORE HOLE	CASING	CASING MATERIAL AND/OR GRADE C.		CA	CASING CONNECTION TYPE		CASIN	1G	CA	SING WALL	SLOT
NG	FROM T			DIAM	(include each casing string, and			INSIDE DIAM. T			TI	HICKNESS	SIZE (inches)		
CAS				(inches)	note sections of screen)		n)	(add coupling diameter)		` ′			(inches)	` ′	
3	0	0 79		±6.5	Soil boring										
N															
RILI															
2. D]								<b>-</b>	-						
											OSE DIT AUG 29		29:	2022 PK3:27	
													_		
200	DEPTH	(feet bgl)	)	BORE HOLE		LIST ANNULAR SEAL MATERIAL A						DUNT		METHO	
IAL	FROM	ТО		DIAM. (inches)	GRA	VEL PACK SIZ	E-RANG	E BY INTE	ERVAL		(cubi	c feet)		PLACEM	ENT
TER															
MA													_		
AR													-		
3. ANNULAR MATERIAL													-		
. AN													-		
60													$\neg$		
EOF	OGE DITTE	DIAT IT	SE SE	I						W/D 2	NAME I DE	CODD a		Warrian 01/2	2/2022\
	FOR OSE INTERNAL USE  WR-20 WELL RECORD & LOG (Version 01/28/2022)  FILE NO. (P - 1914)  POD NO. DOD TRN NO. 7-32143														

4.3,2

NIT

WELL TAG ID NO.

PAGE 1 OF 2

LOCATION

PAGE 2 OF 2

WELL TAG ID NO.

	DEPTH (i	feet bgl)	THICKNESS (feet)	INCLUDE WATE	ER-BEARING C	ATERIAL ENCOUN AVITIES OR FRAC ts to fully describe a	TURE ZONES	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)		
	0	0 4 4 Poorly graded sand with fine gravel, 10YR 4/6 (dark yellowish brown),					Y /N				
	4 10 6			, ,		, 10YR 4/6 (dark yel		Y ✓N			
	10 15 5			Poorly graded gravel	with trace fine s	and, 10YR 4/6 (dark	yellowish brown),	Y ✓N			
	15	30	15	Well graded sand wi	th trace fine gra	vel, 10YR 4/6 (dark y	yellowish brown),	y ✓n			
	30	35	5	Poorly graded sand wi	th trace fine gra	vel, 5YR 4/6 (yellow	ish red), very loose	Y <b>√</b> N			
.,	35	40	5	Clayey sand, 10YR 4	4/6 (dark yellow	ish brown), loose, so	ft, nonplastic, dry,	Y ✓N			
4. HYDROGEOLOGIC LOG OF WELL	40	45	5	Clayey sand, 10YR 4/	6 (dark yellowis	h brown), loose, soft,	nonplastic, dry, on	Y ✓N			
OF	45	55	10	Silty sand, 10YR 4/6 (	dark yellowish l	orown), very loose, v	ery soft, nonplastic,	Y <b>√</b> N			
OQ.	55	60	5	Clayey sand, 10YR 3/6	6 (dark yellowis	n brown), very loose/	soft, nonplastic, dry	y Y ✓N			
ICI	60	65	5	Silty clay, 10YR 3/6 (c	dark yellowish b	rown), medium stiff,	dense, sligh plastic	Y ✓N			
200	65	79	14	Silty clay, 10YR 3/	4 (dark yellowis	h brown), medium de	ense, soft, moist,	Y ✓N			
EO								Y N			
ROC								Y N			
								Y N			
4								Y N			
								Y N			
								Y N			
								Y N			
								Y N			
								Y N			
								Y N			
	METHOD U	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: TOTAL									
	PUM	P A	IR LIFT	BAILER OTHER – SPECIFY: WEI				ELL YIELD (gpm)	0.00		
ISION	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.										
TEST; RIG SUPERVISI	MISCELLANEOUS INFORMATION: Plugged with Type I/II Neat Cement (5.2 gallons per 94 lb. sack) from total depth to surface using hollow stem auger as tremie.  USE OII AUG 29 2022 •••3:27										
resi	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSIT	E SUPERVISION O	F WELL CONSTR	UCTION OTHER	THAN LICENSEE:		
5.	Shane Eldri	dge, Came	eron Pruitt								
SIGNATURE	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE B DESCRIBED HOLE AN 30 DAYS AFTER COM	ND THAT HE O	R SHE WILL FILE	GE AND BELIEF, THIS WELL RECO	THE FOREGOING ORD WITH THE S	G IS A TRUE AND TATE ENGINEER		
SIGNA	Jack A	tkins		Ja	ckie D. Atkins			8/26/2022			
.6		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME		-	DATE			
FOI	OSE INTER	NAI IISE					WR-20 WELL R	ECORD & LOG (	Version 01/28/2022)		
	FOR OSE INTERNAL USE  WR-20 WELL RECORD & LOG (Version 01/28/2022)  FILE NO. POD NO. POD TRN NO. 737 LG 3										

LOCATION



					02.000									
ION	OSE POD NO CP-1893 P	POD-3		WELL TAG ID NO.		OSE FILE NO(S). CP-1893								
AND WELL LOCATION	WELL OWN DAVE AN			OTHERS CONSTRUCTION		PHONE (OPTIONAL) 575-361-3668								
	WELL OWN 616 QUEE		IG ADDRESS Y		CITY CARLSBAI	)	STATE NM 88220	ZIP						
9	WELL		DE	EGREES MINUTES SECO	ONDS									
LA	LOCATIO		ATITUDE 32.	.478900	N	* ACCURACY	REQUIRED: ONE TENT	TH OF A SECOND						
GENERAL	(FROM GI	PS)		4.106200	W	* DATUM REG	QUIRED: WGS 84							
	DESCRIPTION	ON RELAT	ING WELL LOCATION TO	STREET ADDRESS AND COMMON LAND!	MARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE						
-	NE,NW,SI	NE,NW,SE 17T,21S,28E												
LICENSE NO. NAME OF LICENSED DRILLER NAME OF WELL DRILLING COMPANY														
	WD-	1626		Roy Taylor			Roy	y Taylor Drilling						
	DRILLING S		DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	1	LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (FT)						
	11/5	5/21	11/5/21	120'		120'		100'						
N.	COMPLETED WELL IS:		ARTESIAN	DRY HOLE SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT) 100'							
TIO	DRILLING F	LUID:	AIR	MUD ADDITIVES – SPECIFY:										
CASING INFORMATION	DRILLING M	ИЕТНОД:	ROTARY	HAMMER CABLE TOOL OTHER - SPECIFY:										
NFC	DEPTH (feet bgl)		BORE HOLE	CASING MATERIAL AND/OR	GARDIG		CASING	GAGDIG WALL						
GI	FROM TO		DIAM	GRADE	CASING CONNECTION TYPE (add coupling diameter)		INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE					
SIN			(inches)	(include each casing string, and note sections of screen)			(inches)	(inches)	(inches)					
& CA	0	100'	8 1/2"	2" pvc sch40 160psi	Threaded Flush		2.193	.091	blank					
	100'	120'	8 1/2"	2" pvc sch40 160psi	Threaded Fiush		2.193	.091	.030					
DRILLING														
ORI														
2.														
							USE DII NOL	122021 PM1:13						
					-									
		<u> </u>			L			T						
ار		(feet bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL AND			AMOUNT	METHO						
ANNULAR MATERIAL	FROM	TO	DIAM. (inches)	GRAVEL PACK SIZE-RANG	E BY INTE	KVAL	(cubic feet)	PLACEM						
E	0	20'	8 1/2"	cement			7.44	hand						
MA	20'	98'	8 1/2"	bentonite chip			29.04	hand						
LAR	98'	120'	8 1/2"	8/16 silica san	nd		8.26	tremi	e					
DN.														
									-					
3.			-						No.					
FOR	OOF PURE	NIAT 116-	,				NEW PROPERTY	VACCUL : ATTE	1100					
FOR FILE	OSE INTER	NAL USE	4013	POD NO.	5	WR-20		LOG (Version 04/30	)/19)					
	ATION O	10	20 E 17	1) \		IKNI	709	8 TO	1 OF 2					

	I		T	Г					Т		
	DEPTH (1	feet bgl) TO	THICKNESS (feet)	INCLUDE	OR AND TYPE OF WATER-BEARING ach supplemental sh	CAVITIES O	R FRACTURE ZON	NES	BEA	TER RING? / NO)	ESTIMATED YIELD FOR WATER- BEARING
	0	2'	2'			ton soil			Y	4 N	ZONES (gpm)
	2'	14'	12'			sand			Y	✓ N ✓ N	
	14'	28'	14'			caliche			Y	✓ N	
	28'	79'	51'			sand			Y	✓ N	
	79'	120'	41'		ŞI	gar sand			V Y	N	
.,	.,	120				gui suriu			Y	N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
JF W									Y	N	
90									Y	N	
CL									Y	N	
DO.									Y	N	
EOI									Y	N	
ROG									Y	N	
IXD									Y	N	
4. I									Y	N	
									Y	N	
				***************************************					Y	N	
					- 1	***************************************			Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BE	ARING STRATA:			TOT	AL ESTIN	MATED	
	PUMP	Па	IR LIFT	BAILER	OTHER – SPEC	IFY:		WEI	LL YIELI	(gpm):	0.00
		TECT			F DATA COLLECT		WELL TESTING D	NCLUDI	NG DISC	HADGE N	/ETHOD
5. TEST; RIG SUPERVISION	WELL TEST				BLE SHOWING DIS						
RVIS	MISCELLAN	NEOUS INF	ORMATION: Th	nis is a 2" monit	toring well with 2	0' of screen 1	5' in the water 5' o	out.			
UPE											
S DI								05E 0	II NOU	12/2021	PM1:13
T; R											
TES	PRINT NAM	E(S) OF DE	RILL RIG SUPER	VISOR(S) THAT	T PROVIDED ONSI	TE SUPERVI	SION OF WELL CO	NSTRU	CTION O	THER TH	AN LICENSEE:
v.											
	BY SIGNING	G BELOW	I CERTIFY TH	AT TO THE BE	EST OF MY KNOW	VI EDGE ANI	D RELIEF THE FO	OREGOD	NG IS A	TRUE A	ND CORRECT
RE	RECORD OF	THE ABO	VE DESCRIBED	WELL. I ALSO	CERTIFY THAT TI	HE WELL TA	G, IF REQUIRED, H	IAS BEE	N INSTA	LLED AN	D THAT THIS
6. SIGNATURE	WELL RECC	KD WILL	ALSO BE FILED	WITH THE PER	MIT HOLDER WIT	HIN 30 DAYS	AFTER THE COM	PLETIO	N OF WE	LL DRILL	ING.
IGN	$\mathcal{D}$		- /		Roy Taylor			,			,
6. S	Koz	, las	lo					_//	-8	-21	
		SIGNAT	URE OF DRILLE	R / PRINT SIG	GNEE NAME					DATE	
FOR	OSE INTERN	NAL USE					WR-20 W	ELL RE	CORD &	LOG (Ver	sion 04/30/2019)
	ENO. CP	-180	13		POD NO.	3	TRN NO.	70	98	18	
LOC	CATION 2	15-	28E-1	7 21	4		WELL TAG ID NO	D. N	IA		PAGE 2 OF 2

# Little Betty 20 (04.13.2025)

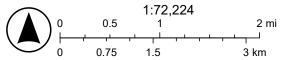


4/13/2025

**USA Flood Hazard Areas** 

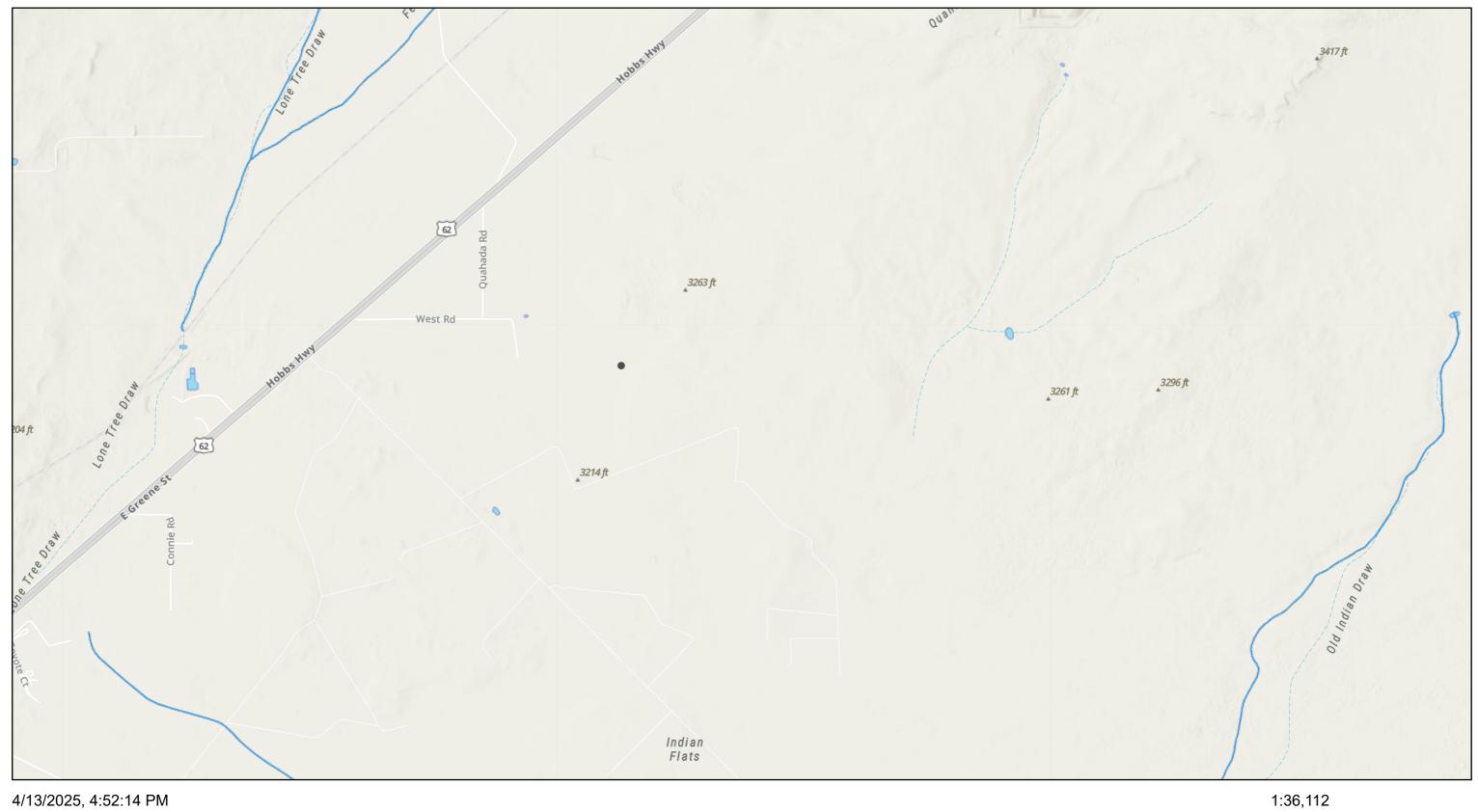
1% Annual Chance Flood Hazard

World\_Hillshade



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

# Little Betty 20 (04.13.2025)



OSW Water Bodys

**OSE Streams** 

0 0.38 0.75 1.5 mi 0 0.5 1 2 km

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** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500

Midland, Texas 79701 Generated 5/5/2025 5:38:36 PM

JOB DESCRIPTION

Little Betty 20 (04.13.2025) Lea County NM

**JOB NUMBER** 

880-57656-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

# **Job Notes**

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

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

# **Authorization**

Generated 5/5/2025 5:38:36 PM

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

2

3

4

0

0

4.0

11

13

Client: Carmona Resources Project/Site: Little Betty 20 (04.13.2025) Laboratory Job ID: 880-57656-1 SDG: Lea County NM

# **Table of Contents**

Cover Page	1
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Case Narrative	5
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QC Sample Results	16
QC Association Summary	20
Lab Chronicle	23
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Chacklists	32

3

4

6

8

40

11

13

## **Definitions/Glossary**

Client: Carmona Resources

Job ID: 880-57656-1

Project/Site: Little Betty 20 (04.13,2025)

SDG: Lea County NM

#### **Qualifiers**

**GC VOA** 

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

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

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

## **Glossary**

CNF

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

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)

Contains No Free Liquid

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
POL Present Output that

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

**Eurofins Midland** 

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#### Case Narrative

Client: Carmona Resources

Job ID: 880-57656-1 Project: Little Betty 20 (04.13.2025)

**Eurofins Midland** Job ID: 880-57656-1

#### Job Narrative 880-57656-1

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 5/2/2025 2:14 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 1.4°C.

#### **GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-6 (1.0') (880-57656-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### **Diesel Range Organics**

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-109270/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-109270/3-A). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Client Sample ID: CS-1 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

Lab Sample ID: 880-57656-1

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 18:00	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		05/02/25 14:58	05/02/25 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/02/25 14:58	05/02/25 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				05/02/25 14:58	05/02/25 18:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/02/25 14:58	05/02/25 18:00	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/25 18:00	1
-									
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) ( Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/05/25 13:02	
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U		MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg			05/05/25 13:02	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL     50.0		mg/Kg  Unit mg/Kg		Prepared 05/02/25 09:10	05/05/25 13:02  Analyzed  05/05/25 13:02	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 50.0		mg/Kg		Prepared	05/05/25 13:02 Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0  sel Range Orga Result <50.0 <50.0	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10	05/05/25 13:02  Analyzed  05/05/25 13:02  05/05/25 13:02	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL     50.0		mg/Kg  Unit mg/Kg		Prepared 05/02/25 09:10	05/05/25 13:02  Analyzed  05/05/25 13:02	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0  sel Range Orga Result <50.0 <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10	05/05/25 13:02  Analyzed  05/05/25 13:02  05/05/25 13:02	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10	Analyzed 05/05/25 13:02 05/05/25 13:02 05/05/25 13:02	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U  U	RL		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10 Prepared	Analyzed 05/05/25 13:02 05/05/25 13:02 05/05/25 13:02 05/05/25 13:02 Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr)	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10  Prepared 05/02/25 09:10	Analyzed 05/05/25 13:02  05/05/25 13:02  05/05/25 13:02  05/05/25 13:02  Analyzed  05/05/25 13:02	1 Dil Fac 1 1 1 1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10  Prepared 05/02/25 09:10	Analyzed 05/05/25 13:02  05/05/25 13:02  05/05/25 13:02  05/05/25 13:02  Analyzed  05/05/25 13:02	Dil Fac  Dil Fac  1  Dil Fac  1  Dil Fac  1  Dil Fac

Client Sample ID: CS-2 (1.0') Lab Sample ID: 880-57656-2 Date Collected: 04/29/25 00:00 Matrix: Solid

Date Received: 05/02/25 14:14

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit RL D Prepared Dil Fac Analyzed Benzene <0.00201 U 0.00201 mg/Kg 05/02/25 14:58 05/02/25 18:21 Toluene <0.00201 U 0.00201 05/02/25 14:58 05/02/25 18:21 mg/Kg Ethylbenzene <0.00201 U 0.00201 mg/Kg 05/02/25 14:58 05/02/25 18:21 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 05/02/25 14:58 05/02/25 18:21 o-Xylene <0.00201 U 0.00201 mg/Kg 05/02/25 14:58 05/02/25 18:21 Xylenes, Total <0.00402 U 0.00402 05/02/25 18:21 mg/Kg 05/02/25 14:58 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 125 70 - 130 05/02/25 14:58 05/02/25 18:21 4-Bromofluorobenzene (Surr)

Eurofins Midland

05/02/25 18:21

05/02/25 14:58

70 - 130

91

1,4-Difluorobenzene (Surr)

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Client Sample ID: CS-2 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

Lab Sample ID: 880-57656-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/25 18:21	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/05/25 13:17	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	-	mg/Kg		05/02/25 09:10	05/05/25 13:17	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 13:17	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130				05/02/25 09:10	05/05/25 13:17	1
o-Terphenyl (Surr)	94		70 - 130				05/02/25 09:10	05/05/25 13:17	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	e						
Analyte	• .	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		10.1		mg/Kg			05/03/25 00:58	

Client Sample ID: CS-3 (1.0') Lab Sample ID: 880-57656-3 Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 18:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 18:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 18:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/02/25 14:58	05/02/25 18:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 18:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/02/25 14:58	05/02/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/02/25 14:58	05/02/25 18:41	1
	87		70 <sub>-</sub> 130				05/02/25 14:58	05/02/25 18:41	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	70 - 730 RL	MDL	Unit	D		Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDL	Unit	D	Prepared		
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00404 esel Range Organ	Qualifier U	RL		mg/Kg	<u> </u>	Prepared	Analyzed 05/02/25 18:41	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00404 esel Range Organ Result	Qualifier U ics (DRO) (Comparison of the property of the prope	RL		mg/Kg	<u>D</u>		Analyzed 05/02/25 18:41  Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00404 esel Range Organ	Qualifier U ics (DRO) (Comparison of the property of the prope	RL		mg/Kg	<u> </u>	Prepared	Analyzed 05/02/25 18:41	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00404 esel Range Organ Result <49.9	Qualifier U  ics (DRO) ( Qualifier U	RL 0.00404  GC) RL 49.9		mg/Kg	<u> </u>	Prepared	Analyzed 05/02/25 18:41  Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00404 esel Range Organ Result <49.9	Qualifier U  ics (DRO) ( Qualifier U	RL 0.00404  GC) RL 49.9	MDL	mg/Kg	<u> </u>	Prepared	Analyzed 05/02/25 18:41  Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Dia Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00404 esel Range Organ Result <49.9	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00404  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/02/25 18:41  Analyzed 05/05/25 13:31	Dil Fac

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Lab Sample ID: 880-57656-3

Matrix: Solid

Date	Collected:	04/29/25	00:00	
Date	Received:	05/02/25	14:14	

Client Sample ID: CS-3 (1.0')

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/02/25 09:10	05/05/25 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130				05/02/25 09:10	05/05/25 13:31	1
o-Terphenyl (Surr)	93		70 <sub>-</sub> 130				05/02/25 09:10	05/05/25 13:31	1

Analyte		Qualifier	RL	MDL	Unit	D	)	Prepared	Analyzed	Dil Fac
Chloride	310		9.96		mg/Kg				05/03/25 01:05	1
Oli 1 O 1 - 1 D - O O A (A O)								Lab Carre	-I- ID- 000 5	7050 4

Client Sample ID: CS-4 (1.0') Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

Lab Sample ID: 880-57656-4

Matrix: Solid

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 14:58	05/02/25 19:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 14:58	05/02/25 19:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 14:58	05/02/25 19:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 14:58	05/02/25 19:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 14:58	05/02/25 19:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 14:58	05/02/25 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				05/02/25 14:58	05/02/25 19:02	1

Г	Nothed: TAL SOR Total RTEY - Tot					
_1	,4-Difluorobenzene (Surr)	91	70 - 130	05/02/25 14:58	05/02/25 19:02	1
4	-Bromofluorobenzene (Surr)	124	70 - 130	05/02/25 14:58	05/02/25 19:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/25 19:02	1

1	wethou: 300046 ou 15 MW - Diesel K	ange Organic	S (DRO) (G	<b>6)</b>					
Α	Analyte	Result C	(ualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Ţ	otal TPH	<50.0 U		50.0	mg/Kg			05/05/25 13:48	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/02/25 09:10	05/05/25 13:48	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/02/25 09:10	05/05/25 13:48	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/25 09:10	05/05/25 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130				05/02/25 09:10	05/05/25 13:48	1
o-Terphenyl (Surr)	96		70 <sub>-</sub> 130				05/02/25 09:10	05/05/25 13:48	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		9.94		mg/Kg			05/03/25 01:12	1

Eurofins Midland

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Lab Sample ID: 880-57656-5

Matrix: Solid

Client Sample ID: CS-5 (1.0') Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		05/02/25 14:58	05/02/25 19:22	
Toluene	<0.00198	U	0.00198		mg/Kg		05/02/25 14:58	05/02/25 19:22	
Ethylbenzene	< 0.00198	U	0.00198		mg/Kg		05/02/25 14:58	05/02/25 19:22	
m-Xylene & p-Xylene	< 0.00397	U	0.00397		mg/Kg		05/02/25 14:58	05/02/25 19:22	
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/02/25 14:58	05/02/25 19:22	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/02/25 14:58	05/02/25 19:22	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	122		70 - 130				05/02/25 14:58	05/02/25 19:22	
1,4-Difluorobenzene (Surr)	95		70 - 130				05/02/25 14:58	05/02/25 19:22	
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/02/25 19:22	
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (			3 3				
Analyte	Result	Qualifier	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	
	•	Qualifier	GC)	MDL		<u>D</u>	Prepared	Analyzed 05/05/25 14:03	
Analyte	Result <49.8	Qualifier U	GC) RL 49.8	MDL	Unit	<u>D</u>	Prepared		
Analyte Total TPH	Result <49.8 esel Range Orga	Qualifier U	GC) RL 49.8		Unit	<u>D</u>	Prepared Prepared		
Analyte Total TPH : Method: SW846 8015B NM - Di	Result <49.8 esel Range Orga	Qualifier U nics (DRO) Qualifier	GC)  RL 49.8		Unit mg/Kg			05/05/25 14:03	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result    <49.8	Qualifier U  nics (DRO) Qualifier U	GC)  RL  49.8  (GC)  RL		Unit mg/Kg		Prepared	05/05/25 14:03  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 esel Range Orga Result <49.8	Qualifier U  nics (DRO) Qualifier U	GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 05/02/25 09:10	05/05/25 14:03  Analyzed  05/05/25 14:03	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 esel Range Orga Result <49.8 <49.8	Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.8  (GC)  RL 49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10	05/05/25 14:03  Analyzed  05/05/25 14:03  05/05/25 14:03	_ Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10	Analyzed 05/05/25 14:03 05/05/25 14:03 05/05/25 14:03	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10 Prepared	Analyzed 05/05/25 14:03  05/05/25 14:03 05/05/25 14:03  05/05/25 14:03  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr)	Result   <49.8	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10  Prepared 05/02/25 09:10	05/05/25 14:03  Analyzed 05/05/25 14:03  05/05/25 14:03  Analyzed 05/05/25 14:03	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits 70 - 130 70 - 130	MDL	Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10  Prepared 05/02/25 09:10	05/05/25 14:03  Analyzed 05/05/25 14:03  05/05/25 14:03  Analyzed 05/05/25 14:03	Dil Fa

Client Sample ID: SW-1 (1.0') Lab Sample ID: 880-57656-6 Date Collected: 04/29/25 00:00 **Matrix: Solid** 

Date Received: 05/02/25 14:14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 19:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 19:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 19:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/02/25 14:58	05/02/25 19:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 19:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/02/25 14:58	05/02/25 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				05/02/25 14:58	05/02/25 19:42	1
1.4-Difluorobenzene (Surr)	93		70 <sub>-</sub> 130				05/02/25 14:58	05/02/25 19:42	1

Client: Carmona Resources

Date Received: 05/02/25 14:14

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

05/02/25 09:10

05/02/25 09:10

05/05/25 14:18

SDG: Lea County NM

Client Sample ID: SW-1 (1.0') Lab Sample ID: 880-57656-6 Date Collected: 04/29/25 00:00

**Matrix: Solid** 

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00404 0.00404 05/02/25 19:42 mg/Kg Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier MDL Unit Analyte RLD Prepared Analyzed Dil Fac Total TPH <49.7 U 49.7 05/05/25 14:18 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed <49.7 U 49.7 05/02/25 09:10 05/05/25 14:18 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.7 U 49.7 mg/Kg 05/02/25 09:10 05/05/25 14:18 C10-C28) Oil Range Organics (Over C28-C36) <49.7 U 49.7 mg/Kg 05/02/25 09:10 05/05/25 14:18 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 05/05/25 14:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride 91.5 9.92 mg/Kg 05/03/25 01:41

70 - 130

70 - 130

105

93

Client Sample ID: SW-2 (1.0') Lab Sample ID: 880-57656-7 Date Collected: 04/29/25 00:00 Matrix: Solid

Date Received: 05/02/25 14:14

1-Chlorooctane (Surr)

o-Terphenyl (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 20:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 20:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 20:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/02/25 14:58	05/02/25 20:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 20:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/02/25 14:58	05/02/25 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				05/02/25 14:58	05/02/25 20:03	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte			70 <sub>-</sub> 130	MDI	Unit	D	05/02/25 14:58	05/02/25 20:03	
Method: TAL SOP Total BTEX	- Total BTEX Cald								
	- Total BTEX Cald	Qualifier	70 - 130  RL 0.00402	MDL	Unit mg/Kg	<u>D</u>	05/02/25 14:58  Prepared	Analyzed 05/02/25 20:03	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00402	Qualifier U	RL 0.00402	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U	RL 0.00402			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U ics (DRO) (Comparison of the property of the prope	RL		mg/Kg		Prepared	Analyzed 05/02/25 20:03	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result <50.0	Qualifier U  ics (DRO) ( Qualifier U	RL 0.00402  GC) RL 50.0		mg/Kg		Prepared	Analyzed 05/02/25 20:03 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <50.0 esel Range Organ	Qualifier U  ics (DRO) ( Qualifier U	RL 0.00402  GC) RL 50.0	MDL	mg/Kg		Prepared	Analyzed 05/02/25 20:03 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00402 esel Range Organ Result <50.0 esel Range Organ	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00402  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/02/25 20:03  Analyzed 05/05/25 14:32	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00402 esel Range Organ Result <50.0 diesel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00402  GC)  RL 50.0  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	Analyzed  05/02/25 20:03  Analyzed  05/05/25 14:32  Analyzed	Dil

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Client Sample ID: SW-2 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

Lab Sample ID: 880-57656-7

Matrix: Solid

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC) (Continu	ıed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/25 09:10	05/05/25 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130				05/02/25 09:10	05/05/25 14:32	
o-Terphenyl (Surr)	105		70 - 130				05/02/25 09:10	05/05/25 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Dil Fac Analyte Unit D Prepared Analyzed 10.1 336 05/03/25 01:48 Chloride mg/Kg

Client Sample ID: SW-3 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

Lab Sample ID: 880-57656-8

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Benzene <0.00199 Ū 0.00199 05/02/25 14:58 05/02/25 20:23 mg/Kg Toluene <0.00199 U 0.00199 05/02/25 14:58 05/02/25 20:23 mg/Kg Ethylbenzene <0.00199 0.00199 05/02/25 14:58 05/02/25 20:23 mg/Kg <0.00398 U 05/02/25 14:58 05/02/25 20:23 m-Xylene & p-Xylene 0.00398 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 05/02/25 14:58 05/02/25 20:23 Xylenes, Total <0.00398 U 0.00398 mg/Kg 05/02/25 14:58 05/02/25 20:23 Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 122 70 - 130 05/02/25 14:58 05/02/25 20:23 1,4-Difluorobenzene (Surr) 96 70 - 130 05/02/25 14:58 05/02/25 20:23

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDI Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 U 0.00398 mg/Kg 05/02/25 20:23

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total TPH <49.8 U 49.8 05/05/25 14:49 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Dil Fac Unit Prepared Analyzed Gasoline Range Organics <49.8 U 49.8 mg/Kg 05/02/25 09:10 05/05/25 14:49 (GRO)-C6-C10 05/02/25 09:10 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 05/05/25 14:49 C10-C28) Oil Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 05/02/25 09:10 05/05/25 14:49 Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 1-Chlorooctane (Surr) 105 70 - 130 05/02/25 09:10 05/05/25 14:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit Dil Fac RL Prepared Analyzed Chloride 10.0 05/03/25 01:55 102 mg/Kg

70 - 130

94

**Eurofins Midland** 

05/05/25 14:49

05/02/25 09:10

o-Terphenyl (Surr)

5/5/2025

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1 SDG: Lea County NM

Lab Sample ID: 880-57656-9

Client Sample ID: SW-4 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

05/02/25 09:10

05/05/25 15:28

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 20:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 20:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 20:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 20:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 20:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				05/02/25 14:58	05/02/25 20:44	1
1,4-Difluorobenzene (Surr)	93		70 <sub>-</sub> 130				05/02/25 14:58	05/02/25 20:44	1

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX < 0.00400 0.00400 mg/Kg 05/02/25 20:44

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 05/05/25 15:28 49.9 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 05/02/25 09:10 05/05/25 15:28 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 05/02/25 09:10 05/05/25 15:28 C10-C28) Oil Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 05/02/25 09:10 05/05/25 15:28 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane (Surr) 107 70 - 130 05/02/25 09:10 05/05/25 15:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 05/03/25 02:02 Chloride 102 9.96 mg/Kg

70 - 130

95

Client Sample ID: SW-5 (1.0') Lab Sample ID: 880-57656-10

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

o-Terphenyl (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 21:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 21:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 21:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/02/25 14:58	05/02/25 21:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 21:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/02/25 14:58	05/02/25 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				05/02/25 14:58	05/02/25 21:04	1
1,4-Difluorobenzene (Surr)	90		70 <sub>-</sub> 130				05/02/25 14:58	05/02/25 21:04	1

**Eurofins Midland** 

Matrix: Solid

Client: Carmona Resources

Date Received: 05/02/25 14:14

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

05/02/25 09:10

05/05/25 15:43

Client Sample ID: SW-5 (1.0') Lab Sample ID: 880-57656-10 Date Collected: 04/29/25 00:00

Matrix: Solid

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/25 21:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RLMDL Unit D Prepared Analyzed Dil Fac Total TPH <49.8 U 49.8 mg/Kg 05/05/25 15:43

		_							· ·
– Method: SW846 8015B NM - Dies	sel Range Orga	inics (DRO)	) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 15:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 15:43	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/02/25 09:10	05/05/25 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130				05/02/25 09:10	05/05/25 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 164 9.92 mg/Kg 05/03/25 02:10

70 - 130

Client Sample ID: SW-6 (1.0') Lab Sample ID: 880-57656-11 Date Collected: 04/29/25 00:00 **Matrix: Solid** 

Date Received: 05/02/25 14:14

o-Terphenyl (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 23:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 23:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 23:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/02/25 14:58	05/02/25 23:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/02/25 14:58	05/02/25 23:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/02/25 14:58	05/02/25 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				05/02/25 14:58	05/02/25 23:08	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX -	Total BTEX Cald	culation	70 - 130				05/02/25 14:58	05/02/25 23:08	1
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc	Qualifier	RL	MDL	Unit	<u>D</u>	05/02/25 14:58 Prepared	05/02/25 23:08  Analyzed	Dil Fac
Method: TAL SOP Total BTEX -	Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Calc Result <0.00404	<b>Qualifier</b> U	RL 0.00404	MDL		<u>D</u>		Analyzed	,
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc Result <0.00404  sel Range Organ	<b>Qualifier</b> U	RL 0.00404			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	Total BTEX Calc Result <0.00404  sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL		mg/Kg		Prepared	Analyzed 05/02/25 23:08	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	Total BTEX Calc Result <0.00404  sel Range Organ Result <50.0	Qualifier  U  ics (DRO) ( Qualifier  U	RL 0.00404  GC)  RL 50.0		mg/Kg		Prepared	Analyzed 05/02/25 23:08 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die	Total BTEX Calc  Result <0.00404  sel Range Organ Result <50.0  esel Range Organ	Qualifier  U  ics (DRO) ( Qualifier  U	RL 0.00404  GC)  RL 50.0	MDL	mg/Kg		Prepared	Analyzed 05/02/25 23:08 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	Total BTEX Calc  Result <0.00404  sel Range Organ Result <50.0  esel Range Organ	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00404  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/02/25 23:08  Analyzed 05/05/25 15:58	Dil Fac  Dil Fac

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1 SDG: Lea County NM

Lab Sample ID: 880-57656-11

Matrix: Solid

Client Sample ID: SW-6 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/25 09:10	05/05/25 15:58	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
1-Chlorooctane (Surr)	103		70 - 130				05/02/25 09:10	05/05/25 15:58	1			
o-Terphenyl (Surr)	93		70 - 130				05/02/25 09:10	05/05/25 15:58	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	119		10.1		mg/Kg			05/03/25 02:31	1		

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# **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-57656-1 Project/Site: Little Betty 20 (04.13.2025) SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-56959-A-21-A MB	Method Blank	126	88	
380-57656-1	CS-1 (1.0')	124	89	
880-57656-1 MS	CS-1 (1.0')	106	97	
880-57656-1 MSD	CS-1 (1.0')	100	106	
380-57656-2	CS-2 (1.0')	125	91	
380-57656-3	CS-3 (1.0')	116	87	
380-57656-4	CS-4 (1.0')	124	91	
880-57656-5	CS-5 (1.0')	122	95	
380-57656-6	SW-1 (1.0')	126	93	
380-57656-7	SW-2 (1.0')	125	92	
880-57656-8	SW-3 (1.0')	122	96	
80-57656-9	SW-4 (1.0')	123	93	
380-57656-10	SW-5 (1.0')	126	90	
80-57656-11	SW-6 (1.0')	137 S1+	84	
CS 880-109359/1-A	Lab Control Sample	111	102	
CSD 880-109359/2-A	Lab Control Sample Dup	106	101	
/IB 880-109359/5-A	Method Blank	108	80	
Surrogate Legend				

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

DFBZ = 1,4-Difluorobenzene (Surr)

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

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-57656-1	CS-1 (1.0')	104	92	
880-57656-2	CS-2 (1.0')	105	94	
880-57656-3	CS-3 (1.0')	104	93	
380-57656-4	CS-4 (1.0')	107	96	
880-57656-5	CS-5 (1.0')	103	93	
880-57656-6	SW-1 (1.0')	105	93	
880-57656-7	SW-2 (1.0')	113	105	
880-57656-8	SW-3 (1.0')	105	94	
880-57656-9	SW-4 (1.0')	107	95	
880-57656-10	SW-5 (1.0')	104	95	
880-57656-11	SW-6 (1.0')	103	93	
890-8073-A-33-B MS	Matrix Spike	119	100	
890-8073-A-33-C MSD	Matrix Spike Duplicate	116	98	
LCS 880-109270/2-A	Lab Control Sample	157 S1+	135 S1+	
LCSD 880-109270/3-A	Lab Control Sample Dup	147 S1+	125	
MB 880-109270/1-A	Method Blank	115	104	

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1CO = 1-Chlorooctane (Surr) OTPH = o-Terphenyl (Surr)

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

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

Lab Sample ID: 880-56959-A-21-A MB

**Matrix: Solid** 

Analysis Batch: 109358

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 109359** 

		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
	Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
ı	o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
ı	Xvlenes Total	< 0.00400	U	0.00400		ma/Ka		05/02/25 14:58	05/02/25 22:27	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126	70 - 130	05/02/	/25 14:58	05/02/25 22:27	
1,4-Difluorobenzene (Surr)	88	70 <sub>-</sub> 130	05/02/	/25 14:58	05/02/25 22:27	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 109359

Lab Sample ID: MB 880-109359/5-A **Matrix: Solid** 

Lab Sample ID: LCS 880-109359/1-A

**Matrix: Solid** 

Analysis Batch: 109358

Analysis Batch: 109358

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	-
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 17:39	•
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	,
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 17:39	•

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/02/25 14:	58 05/02/25 17:39	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/02/25 14:	58 05/02/25 17:39	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 109359** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1018		mg/Kg		102	70 _ 130	
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1009		mg/Kg		101	70 _ 130	
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 _ 130	
o-Xvlene	0.100	0.1063		ma/Ka		106	70 _ 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-109359/2-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 109358								Batch: 1	09359
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	1	35

#### QC Sample Results

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

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

Lab Sample ID: LCSD 880-109359/2-A **Matrix: Solid** 

Analysis Batch: 109358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 109359** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09759		mg/Kg		98	70 - 130	4	35
Ethylbenzene	0.100	0.09355		mg/Kg		94	70 _ 130	8	35
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 _ 130	9	35
o-Xylene	0.100	0.09765		mg/Kg		98	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-57656-1 MS Client Sample ID: CS-1 (1.0')

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 109358 Prep Batch: 109359

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.09609		mg/Kg		96	70 _ 130	
Toluene	<0.00200	U	0.100	0.09437		mg/Kg		94	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.09125		mg/Kg		91	70 _ 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1857		mg/Kg		93	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09660		mg/Kg		97	70 _ 130	

MS MS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 880-57656-1 MSD

**Matrix: Solid** 

Analysis Batch: 109358

Client Sample ID: CS-1 (1.0')

Prep Type: Total/NA Prep Batch: 109359

•											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1089		mg/Kg		109	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.09768		mg/Kg		98	70 _ 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09036		mg/Kg		90	70 _ 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1798		mg/Kg		90	70 _ 130	3	35
o-Xylene	<0.00200	U	0.100	0.09310		mg/Kg		93	70 _ 130	4	35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-109270/1-A

**Matrix: Solid** 

Analysis Batch: 109396

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 109270

	MB	MB							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	m	ng/Kg		05/02/25 09:09	05/05/25 09:32	1
(GRO)-C6-C10									

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

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

Lab Sample ID: MB 880-109270/1-A

**Matrix: Solid** 

Analysis Batch: 109396

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 109270** 

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/02/25 09:09	05/05/25 09:32	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/02/25 09:09	05/05/25 09:32	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130	05/02/25 09:09	05/05/25 09:32	1
o-Terphenyl (Surr)	104		70 - 130	05/02/25 09:09	05/05/25 09:32	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-109270/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 109396 **Prep Batch: 109270** 

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 980.0 mg/Kg 98 70 \_ 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 969.0 70 \_ 130 mg/Kg 97

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	157	S1+	70 - 130
o-Terphenyl (Surr)	135	S1+	70 <sub>-</sub> 130

Lab Sample ID: LCSD 880-109270/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 109396

Prep Type: Total/NA

**Prep Batch: 109270** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	918.1		mg/Kg		92	70 _ 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	934.8		mg/Kg		93	70 _ 130	4	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane (Surr) 147 S1+ 70 - 130 o-Terphenyl (Surr) 125 70 - 130

Lab Sample ID: 890-8073-A-33-B MS

**Matrix: Solid** 

Analysis Batch: 109396

Client Sample ID: Matrix Spike

Prep Type: Total/NA

**Prep Batch: 109270** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	994	1090		mg/Kg		110	70 _ 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	994	978.6		mg/Kg		98	70 _ 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		70 _ 130
o-Terphenyl (Surr)	100		70 - 130

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

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

Lab Sample ID: 890-8073-A-33-C MSD

**Matrix: Solid** 

Analysis Batch: 109396

Client Sample ID: Matrix Spike Duplicate

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: SW-5 (1.0')

Client Sample ID: SW-5 (1.0')

Prep Type: Total/NA

**Prep Batch: 109270** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1034		mg/Kg		104	70 _ 130	5	20
Diesel Range Organics (Over	<50.0	U	994	1010		mg/Kg		102	70 _ 130	3	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)			70 - 130
o-Terphenyl (Surr)	98		70 <sub>-</sub> 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109360/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 109363

мв мв

	Analyte	Result	Qualifier	RL	MDL	Unit	D	)	Prepared	Analyzed	Dil Fac
L	Chloride	<10.0	U	10.0		mg/Kg				05/03/25 00:08	1

Lab Sample ID: LCS 880-109360/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 109363

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	230.5		mg/Kg		92	90 _ 110	 

Lab Sample ID: LCSD 880-109360/3-A

Matrix: Solid

Analysis Batch: 109363

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	228.7		mg/Kg		91	90 _ 110	1	20	

Lab Sample ID: 880-57656-10 MS

**Matrix: Solid** 

Analysis Batch: 109363

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	164		248	397 9		ma/Ka		94	90 - 110	

Lab Sample ID: 880-57656-10 MSD

**Matrix: Solid** 

Analysis Batch: 109363											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	164		248	408.8		mg/Kg		99	90 _ 110	3	20

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1 SDG: Lea County NM

#### **GC VOA**

#### Analysis Batch: 109358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Total/NA	Solid	8021B	109359
880-57656-2	CS-2 (1.0')	Total/NA	Solid	8021B	109359
880-57656-3	CS-3 (1.0')	Total/NA	Solid	8021B	109359
880-57656-4	CS-4 (1.0')	Total/NA	Solid	8021B	109359
880-57656-5	CS-5 (1.0')	Total/NA	Solid	8021B	109359
880-57656-6	SW-1 (1.0')	Total/NA	Solid	8021B	109359
880-57656-7	SW-2 (1.0')	Total/NA	Solid	8021B	109359
880-57656-8	SW-3 (1.0')	Total/NA	Solid	8021B	109359
880-57656-9	SW-4 (1.0')	Total/NA	Solid	8021B	109359
880-57656-10	SW-5 (1.0')	Total/NA	Solid	8021B	109359
880-57656-11	SW-6 (1.0')	Total/NA	Solid	8021B	109359
880-56959-A-21-A MB	Method Blank	Total/NA	Solid	8021B	109359
MB 880-109359/5-A	Method Blank	Total/NA	Solid	8021B	109359
LCS 880-109359/1-A	Lab Control Sample	Total/NA	Solid	8021B	109359
LCSD 880-109359/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109359
880-57656-1 MS	CS-1 (1.0')	Total/NA	Solid	8021B	109359
880-57656-1 MSD	CS-1 (1.0')	Total/NA	Solid	8021B	109359

#### **Prep Batch: 109359**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Total/NA	Solid	5035	
880-57656-2	CS-2 (1.0')	Total/NA	Solid	5035	
880-57656-3	CS-3 (1.0')	Total/NA	Solid	5035	
880-57656-4	CS-4 (1.0')	Total/NA	Solid	5035	
880-57656-5	CS-5 (1.0')	Total/NA	Solid	5035	
880-57656-6	SW-1 (1.0')	Total/NA	Solid	5035	
880-57656-7	SW-2 (1.0')	Total/NA	Solid	5035	
880-57656-8	SW-3 (1.0')	Total/NA	Solid	5035	
880-57656-9	SW-4 (1.0')	Total/NA	Solid	5035	
880-57656-10	SW-5 (1.0')	Total/NA	Solid	5035	
880-57656-11	SW-6 (1.0')	Total/NA	Solid	5035	
880-56959-A-21-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-109359/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109359/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109359/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57656-1 MS	CS-1 (1.0')	Total/NA	Solid	5035	
880-57656-1 MSD	CS-1 (1.0')	Total/NA	Solid	5035	

#### Analysis Batch: 109421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-2	CS-2 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-3	CS-3 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-4	CS-4 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-5	CS-5 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-6	SW-1 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-7	SW-2 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-8	SW-3 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-9	SW-4 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-10	SW-5 (1.0')	Total/NA	Solid	Total BTEX	
880-57656-11	SW-6 (1.0')	Total/NA	Solid	Total BTEX	

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5/5/2025

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# **QC Association Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1 SDG: Lea County NM

#### **GC Semi VOA**

**Prep Batch: 109270** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-2	CS-2 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-3	CS-3 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-4	CS-4 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-5	CS-5 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-6	SW-1 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-7	SW-2 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-8	SW-3 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-9	SW-4 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-10	SW-5 (1.0')	Total/NA	Solid	8015NM Prep	
880-57656-11	SW-6 (1.0')	Total/NA	Solid	8015NM Prep	
MB 880-109270/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109270/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8073-A-33-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8073-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Total/NA	Solid	8015B NM	109270
880-57656-2	CS-2 (1.0')	Total/NA	Solid	8015B <b>NM</b>	109270
880-57656-3	CS-3 (1.0')	Total/NA	Solid	8015B <b>NM</b>	109270
880-57656-4	CS-4 (1.0')	Total/NA	Solid	8015B NM	109270
880-57656-5	CS-5 (1.0')	Total/NA	Solid	8015B <b>NM</b>	109270
880-57656-6	SW-1 (1.0')	Total/NA	Solid	8015B <b>NM</b>	109270
880-57656-7	SW-2 (1.0')	Total/NA	Solid	8015B NM	109270
880-57656-8	SW-3 (1.0')	Total/NA	Solid	8015B <b>NM</b>	109270
880-57656-9	SW-4 (1.0')	Total/NA	Solid	8015B <b>NM</b>	109270
880-57656-10	SW-5 (1.0')	Total/NA	Solid	8015B NM	109270
880-57656-11	SW-6 (1.0')	Total/NA	Solid	8015B <b>NM</b>	109270
MB 880-109270/1-A	Method Blank	Total/NA	Solid	8015B <b>NM</b>	109270
LCS 880-109270/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109270
LCSD 880-109270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109270
890-8073-A-33-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109270
890-8073-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109270

Analysis Batch: 109472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Total/NA	Solid	8015 NM	
880-57656-2	CS-2 (1.0')	Total/NA	Solid	8015 <b>NM</b>	
880-57656-3	CS-3 (1.0')	Total/NA	Solid	8015 <b>NM</b>	
880-57656-4	CS-4 (1.0')	Total/NA	Solid	8015 NM	
880-57656-5	CS-5 (1.0')	Total/NA	Solid	8015 <b>NM</b>	
880-57656-6	SW-1 (1.0')	Total/NA	Solid	8015 NM	
880-57656-7	SW-2 (1.0')	Total/NA	Solid	8015 NM	
880-57656-8	SW-3 (1.0')	Total/NA	Solid	8015 NM	
880-57656-9	SW-4 (1.0')	Total/NA	Solid	8015 NM	
880-57656-10	SW-5 (1.0')	Total/NA	Solid	8015 NM	
880-57656-11	SW-6 (1.0')	Total/NA	Solid	8015 <b>NM</b>	

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# **QC Association Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1 SDG: Lea County NM

#### HPLC/IC

Leach Batch: 109360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Soluble	Solid	DI Leach	_
880-57656-2	CS-2 (1.0')	Soluble	Solid	DI Leach	
880-57656-3	CS-3 (1.0')	Soluble	Solid	DI Leach	
880-57656-4	CS-4 (1.0')	Soluble	Solid	DI Leach	
880-57656-5	CS-5 (1.0')	Soluble	Solid	DI Leach	
880-57656-6	SW-1 (1.0')	Soluble	Solid	DI Leach	
880-57656-7	SW-2 (1.0')	Soluble	Solid	D <b>l</b> Leach	
880-57656-8	SW-3 (1.0')	Soluble	Solid	DI Leach	
880-57656-9	SW-4 (1.0')	Soluble	Solid	DI Leach	
880-57656-10	SW-5 (1.0')	Soluble	Solid	DI Leach	
880-57656-11	SW-6 (1.0')	Soluble	Solid	DI Leach	
MB 880-109360/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109360/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109360/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57656-10 MS	SW-5 (1.0')	Soluble	Solid	DI Leach	
880-57656-10 MSD	SW-5 (1.0')	Soluble	Solid	DI Leach	

#### Analysis Batch: 109363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57656-1	CS-1 (1.0')	Soluble	Solid	300.0	109360
880-57656-2	CS-2 (1.0')	Soluble	Solid	300.0	109360
880-57656-3	CS-3 (1.0')	Soluble	Solid	300.0	109360
880-57656-4	CS-4 (1.0')	Soluble	Solid	300.0	109360
880-57656-5	CS-5 (1.0')	Soluble	Solid	300.0	109360
880-57656-6	SW-1 (1.0')	Soluble	Solid	300.0	109360
880-57656-7	SW-2 (1.0')	Soluble	Solid	300.0	109360
880-57656-8	SW-3 (1.0')	Soluble	Solid	300.0	109360
880-57656-9	SW-4 (1.0')	Soluble	Solid	300.0	109360
880-57656-10	SW-5 (1.0')	Soluble	Solid	300.0	109360
880-57656-11	SW-6 (1.0')	Soluble	Solid	300.0	109360
MB 880-109360/1-A	Method Blank	Soluble	Solid	300.0	109360
LCS 880-109360/2-A	Lab Control Sample	Soluble	Solid	300.0	109360
LCSD 880-109360/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109360
880-57656-10 MS	SW-5 (1.0')	Soluble	Solid	300.0	109360
880-57656-10 MSD	SW-5 (1.0')	Soluble	Solid	300.0	109360

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#### **Lab Chronicle**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

SDG: Lea County NM

Job ID: 880-57656-1

Client Sample ID: CS-1 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14 Lab Sample ID: 880-57656-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 18:00	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 13:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 13:02	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 00:51	SMC	EET MID

Client Sample ID: CS-2 (1.0')

Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

Lab Sample ID: 880-57656-2

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 18:21	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 13:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 13:17	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 00:58	SMC	EET MID

Client Sample ID: CS-3 (1.0')

Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

Lab Sample ID: 880-57656-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 18:41	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 13:31	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 01:05	SMC	EET MID

Client Sample ID: CS-4 (1.0')

Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

Lab Sample ID:	880-57656-4
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 19:02	SM	EET MID

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Client Sample ID: CS-4 (1.0')

Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

Job ID: 880-57656-1 SDG: Lea County NM

Lab Sample ID: 880-57656-4

SMC

05/03/25 01:12

109363

Matrix: Solid

EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 13:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B <b>NM</b>		1	1 uL	1 uL	109396	05/05/25 13:48	TKC	EET MID
Soluble	Leach	D <b>I</b> Leach			5.03 g	50 mL	109360	05/02/25 15:07	SA	EET MID

1

Client Sample ID: CS-5 (1.0') Lab Sample ID: 880-57656-5

Date Collected: 04/29/25 00:00 **Matrix: Solid** 

Date Received: 05/02/25 14:14

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 19:22	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 14:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 14:03	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 01:34	SMC	EET MID

Client Sample ID: SW-1 (1.0') Lab Sample ID: 880-57656-6

Date Collected: 04/29/25 00:00 Matrix: Solid Date Received: 05/02/25 14:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 19:42	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 14:18	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 01:41	SMC	EET MID

Client Sample ID: SW-2 (1.0') Lab Sample ID: 880-57656-7

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

<del></del>	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 20:03	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 14:32	TKC	EET MID

**Eurofins Midland** 

**Matrix: Solid** 

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#### **Lab Chronicle**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Client Sample ID: SW-2 (1.0')

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14 Lab Sample ID: 880-57656-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 01:48	SMC	EET MID

Client Sample ID: SW-3 (1.0') Lab Sample ID: 880-57656-8

Date Collected: 04/29/25 00:00 Matrix: Solid

Date Received: 05/02/25 14:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 20:23	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 14:49	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109270	05/02/25 09:10	EL	EET MIC
Total/NA	Analysis	8015B <b>NM</b>		1	1 uL	1 uL	109396	05/05/25 14:49	TKC	EET MIC
Soluble	Leach	DI Leach			4.99 g	50 mL	109360	05/02/25 15:07	SA	EET MIC
Soluble	Analysis	300.0		1			109363	05/03/25 01:55	SMC	EET MIC

Client Sample ID: SW-4 (1.0') Lab Sample ID: 880-57656-9

Date Collected: 04/29/25 00:00

Date Received: 05/02/25 14:14

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 20:44	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 15:28	TKC	EET MID
Soluble	Leach	D <b>I</b> Leach			5.02 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 02:02	SMC	EET MID

Client Sample ID: SW-5 (1.0') Lab Sample ID: 880-57656-10

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 21:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 21:04	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 15:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 15:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 02:10	SMC	EET MID

#### **Lab Chronicle**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1 SDG: Lea County NM

Lab Sample ID: 880-57656-11

Matrix: Solid

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109421	05/02/25 23:08	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109472	05/05/25 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 15:58	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 02:31	SMC	EET MID

#### Laboratory References:

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

# **Accreditation/Certification Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

#### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI	P	T104704400	06-30-25
· · ·	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

# **Method Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 <b>NM</b>	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: Little Betty 20 (04.13.2025)

Job ID: 880-57656-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57656-1	CS-1 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-2	CS-2 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-3	CS-3 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-4	CS-4 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-5	CS-5 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-6	SW-1 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-7	SW-2 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-8	SW-3 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-9	SW-4 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-10	SW-5 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14
880-57656-11	SW-6 (1.0')	Solid	04/29/25 00:00	05/02/25 14:14

of Custody	Page 1 of 2	Comments	nfields RC Operfund		7UST DRRP DLevel IV	τ □ Other.	Preservative Codes	None: NO DI Water: H <sub>2</sub> O	70	HCL: HC HNO3: HN		H <sub>3</sub> PO <sub>4</sub> : HP	NarS.O.: NASO.	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC		Sample Comments												Date/Time	かららなった。	
880-57656 Chain of Custody		Work Order Comments	Program: UST/PST PRP Irownfields	State of Project:	el II     Level III	Deliverables: EDD ☐ ADaPT ☐	UEST					ţ	NOH																Received by: (Signature)	W.	
stody			ıergy	600 N Marienfield St, Suite 600	< 79701	lke@coterra.com	ANALYSIS REQUEST				07	300.	ebiro		)			×	×	×	×	×	×	×	×	×	×		1/1/1		
Chain of Custody		n) Laci Luig	ne: Cimarex Energy	600 N Mari	Midland, TX 79701	Emait laci.luig@coterra.com & ashton.thielke@coterra.com		Pres. Code	((	· MRG	ters	ame	Para EX 80	÷	13108	Grab/ # of	Cont	-	- ×	C 1 X X	$\dashv$	- ×	- ×	- ×	~ ×	-	1 ×		Date/Time		
		Bill to: (if different)	Company Name	Address:	City, State ZIP:	nail: laci.luig@cot	Turn Around	✓ Rush	24 hr.			Xes No	30	. 4.	7.7	<b>!</b>	Water														
						Err	F	☐ Routine	Due Date:	<u> </u>	1	Wet Ice:	er ID	Dooding:	Corrected Temperature:		Soil	×	×	×	×	×	×	×	×	×	×		(a)		
							4.13.2025)		w Mexico		3	Yes	Correction Factor	Tomografiir	Corrected Temperature		Time	25	25	25	25	25	25	25	25	25	25		Relinquished by: (Signature)		
		ielke	Carmona Resources	310 W Wall St Ste 500	-X 79701	886	Little Betty 20 (04.13.2025)	2704	Lea County, New Mexico	X		∞(	Yes No	Y_	res no mA		Date	4/29/2025	4/29/2025	4/29/2025	4/29/2025	4/29/2025	4/29/2025	4/29/2025	4/29/2025	4/29/2025	4/29/2025		Relinquish		
		Ashton Thielke		310 W Wa	Midland, TX 79701	432-813-8988			7		Turk	ZEIPT	pale.				Sample Identification	CS-1 (1.0')	CS-2 (1.0')	CS-3 (1.0')	CS-4 (1.0')	CS-5 (1.0')	SW-1 (1.0')	SW-2 (1.0')	SW-3 (1.0')	SW-4 (1.0')	SW-5 (1.0')				
		Project Manager:	Company Name:	Address:	City, State ZIP:	Phone:	Project Name:	Project Number:	Project Location	Sampler's Name:		SAMPLE RECEIPT	Received Intact:	Coolei Custody	Sample Custody Seals. Total Containers:		Sample	CS	CS	CS	CS	S	SW	SW	SIV	SW	SW	Comments:			

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5/5/2025

Chain of Custod

Work Order No:

									ı						Page	2 of 2
Project Manager:	Ashton Thielke				Bill to: (if different)		Laci Luig						^	Vork Orde	Work Order Comments	
Company Name:	Carmona Resources	urces			Company Name		Cimarex Energy	Energy				Program:	Program: UST/PST PRP		☐rownfields ☐RC	C Dperfund D
Address:	310 W Wall St Ste 500	Ste 500			Address:		600 N M	arienfield S	600 N Marienfield St, Suite 600			State of Project:	roject:			
City, State ZIP:	Midland, TX 79701	101			City, State ZIP:		Midland,	Midland, TX 79701				Reporting	Reporting:Level II	vel III	T/UST   RRP	CLevel IV
Phone:	432-813-8988			Email:	Email: laci.luig@coterra.com & ashton.thielke@coterra.com	rra.com &	ashton.tl	ielke@cc	oterra.com			Deliverables: EDD	ss: EDD	ADa	ADaPT Other:	er:
Project Name:	Little E	Little Betty 20 (04.13.2025)	3.2025)	Turn	Turn Around					ANAL	ANALYSIS REQUEST	UEST			Prese	Preservative Codes
Project Number:		2704		☐ Routine	✓ Rush	Pres. Code									None: NO	DI Water: H <sub>2</sub> O
Project Location	Lea	Lea County, New Mexico	Mexico	Due Date:	24 hr.						-				Coal: Cool	MeOH: Me
Sampler's Name:		KR						OBO							HCL: HC	HNO <sub>3</sub> : HN
PO #:						rs		N + (			_				H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	nete		_							H₃PO4: HP	
Received Intact	*	Yes No	Thermometer ID:			ıran	802	1e 30						plo	NaHSO₄: NABIS	BIS
Cooler Custody Seals:	۶	No N/A	Correction Eactor	JI:		4	_							Н	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	so <sub>3</sub>
Sample Custody Seals:	als: Yes	No N/A	Temperature Reading:	eading:			_								Zn Acetate+NaOH: Zn	VaOH: Zn
Total Containers:			Corrected Temperature:	verature:				100							NaOH+Asco	NaOH+Ascorbic Acid: SAPC
Sample Identification	ntification	Date	Time	Soil	Water Comp	/ # of P Cont		uai							Samp	Sample Comments
SW-6 (1.0')	(1.0')	4/29/2025		×	O	-	×	×								
								-								
								+				=				
						-	1	+		-		1				
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Comments:																
		Relinquished	Relinquished by: (Signature)				Date/Time	<u>မ</u>		100	Red	Received by: (Signature)	ignature)			Date/Time
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						-			>							

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5/5/2025

# **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-57656-1

SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 57656 List Number: 1

Creator: Kramer, Jessica

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

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500

Midland, Texas 79701

Generated 5/5/2025 5:38:29 PM

# **JOB DESCRIPTION**

Little Betty 20 (04.13.2025) Lea County NM

# **JOB NUMBER**

880-57655-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

# **Job Notes**

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

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

# **Authorization**

Generated 5/5/2025 5:38:29 PM

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

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Client: Carmona Resources
Project/Site: Little Betty 20 (04.13.2025)

Laboratory Job ID: 880-57655-1 SDG: Lea County NM

# **Table of Contents**

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## **Definitions/Glossary**

Client: Carmona Resources

Job ID: 880-57655-1

Project/Site: Little Betty 20 (04.13,2025)

SDG: Lea County NM

**Qualifiers** 

**GC VOA** 

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

Eurofins Midland

Released to Imaging: 5/20/2025 1:42:03 PM Page 4 of 19 5/20/2025 1:42:03 PM

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#### Case Narrative

Client: Carmona Resources

Job ID: 880-57655-1

Project: Little Betty 20 (04.13.2025)

Eurofins Midland

Job ID: 880-57655-1

# Job Narrative 880-57655-1

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 sample was received on 5/2/2025 2:14 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

#### **GC VOA**

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

#### **Diesel Range Organics**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-109270/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-109270/3-A). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

**Eurofins Midland** 

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# **Client Sample Results**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

# Client Sample ID: Backfill Sample

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14 Lab Sample ID: 880-57655-1

Matrix: Solid

Analyte		ounds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 23:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 23:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 23:29	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/02/25 14:58	05/02/25 23:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/02/25 14:58	05/02/25 23:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/02/25 14:58	05/02/25 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130				05/02/25 14:58	05/02/25 23:29	1
1,4-Difluorobenzene (Surr)	87		70 - 130				05/02/25 14:58	05/02/25 23:29	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/25 23:29	1
			GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<u> </u>	Result <49.9		•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/05/25 12:45	Dil Fac
Total TPH	<49.9	U	RL 49.9	MDL		<u>D</u>	Prepared		Dil Fac
Total TPH  Method: SW846 8015B NM - Dies	<49.9	U	RL 49.9		mg/Kg	D_	<u> </u>	05/05/25 12:45	1
Total TPH Method: SW846 8015B NM - Dies Analyte	<49.9	nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		Prepared  05/02/25 09:10		Dil Fac
Total TPH  Method: SW846 8015B NM - Dies  Analyte  Gasoline Range Organics	<49.9 sel Range Orga Result	nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		Prepared	05/05/25 12:45  Analyzed	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies  Analyte  Gasoline Range Organics (GRO)-C6-C10	<49.9 sel Range Orga Result	nics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		Prepared	05/05/25 12:45  Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9	nics (DRO) Qualifier	RL 49.9  (GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 05/02/25 09:10	05/05/25 12:45  Analyzed  05/05/25 12:45	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9	nics (DRO) Qualifier U	RL 49.9  (GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 05/02/25 09:10	05/05/25 12:45  Analyzed  05/05/25 12:45	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9	Oualifier U	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10	05/05/25 12:45  Analyzed  05/05/25 12:45  05/05/25 12:45	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	Oualifier U	RL 49.9  (GC) RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10	05/05/25 12:45  Analyzed 05/05/25 12:45 05/05/25 12:45	Dil Fac 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Oualifier U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10 Prepared	Analyzed 05/05/25 12:45 05/05/25 12:45 05/05/25 12:45 05/05/25 12:45 Analyzed	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9  **Recovery 110 <97	Oualifier U U Qualifier U Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10  Prepared 05/02/25 09:10	05/05/25 12:45  Analyzed 05/05/25 12:45  05/05/25 12:45  Analyzed 05/05/25 12:45	Dil Face  1  Dil Face  1  Dil Face
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)  Method: EPA 300.0 - Anions, Ion Analyte	sel Range Orga Result <49.9 <49.9 <49.9  *Recovery 110 97 Chromatograp	Oualifier U U Qualifier U Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg  mg/Kg		Prepared 05/02/25 09:10 05/02/25 09:10 05/02/25 09:10  Prepared 05/02/25 09:10	05/05/25 12:45  Analyzed 05/05/25 12:45  05/05/25 12:45  Analyzed 05/05/25 12:45	Dil Face  1  Dil Face  1  Dil Face

# **Surrogate Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recove
		BFB1	DFBZ1	
Lab Sample ID C	lient Sample ID	(70-130)	(70-130)	
880-56959-A-21-A MB	lethod Blank	126	88	
880-57655-1 B	Backfill Sample	130	87	
880-57656-A-1-B MS N	/latrix Spike	106	97	
880-57656-A-1-C MSD N	Matrix Spike Duplicate	100	106	
LCS 880-109359/1-A L	ab Control Sample	111	102	
LCSD 880-109359/2-A L	ab Control Sample Dup	106	101	
MB 880-109359/5-A N	lethod Blank	108	80	
Surrogate Legend				
BFB = 4-Bromofluorobenzene (	Surr)			
DFBZ = 1,4-Difluorobenzene (S	Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-57655-1	Backfill Sample	110	97	
890-8073-A-33-B MS	Matrix Spike	119	100	
890-8073-A-33-C MSD	Matrix Spike Duplicate	116	98	
LCS 880-109270/2-A	Lab Control Sample	157 S1+	135 S1+	
LCSD 880-109270/3-A	Lab Control Sample Dup	147 S1+	125	
MB 880-109270/1-A	Method Blank	115	104	
Surrogate Legend				

OTPH = o-Terphenyl (Surr)

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-56959-A-21-A MB

**Matrix: Solid** Analysis Batch: 109358 Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 109359** 

	МВ	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 22:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 22:27	1

MB MB

Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126	70 - 130	05/02/25 14:58	05/02/25 22:27	1
1,4-Difluorobenzene (Surr)	88	70 - 130	05/02/25 14:58	05/02/25 22:27	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 109359

Analysis Batch: 109358 MR MR

Lab Sample ID: MB 880-109359/5-A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 14:58	05/02/25 17:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 14:58	05/02/25 17:39	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/02/25	14:58	05/02/25 17:39	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/02/25	14:58	05/02/25 17:39	1

Lab Sample ID: LCS 880-109359/1-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 109358

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 109359

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1018		mg/Kg		102	70 _ 130	
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1009		mg/Kg		101	70 _ 130	
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 _ 130	
o-Xylene	0.100	0.1063		mg/Kg		106	70 _ 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-109359/2-A

**Matrix: Solid** 

Analysis Batch: 109358

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

**Prep Batch: 109359** 

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1024 mg/Kg 102 70 \_ 130

**Eurofins Midland** 

5/5/2025

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

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

Lab Sample ID: LCSD 880-109359/2-A **Matrix: Solid** 

Analysis Batch: 109358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 109359

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09759		mg/Kg		98	70 - 130	4	35
Ethylbenzene	0.100	0.09355		mg/Kg		94	70 _ 130	8	35
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 _ 130	9	35
o-Xylene	0.100	0.09765		mg/Kg		98	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 880-57656-A-1-B MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 109358

Prep Type: Total/NA

Prep Batch: 109359

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.09609		mg/Kg		96	70 _ 130	
Toluene	<0.00200	U	0.100	0.09437		mg/Kg		94	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.09125		mg/Kg		91	70 _ 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1857		mg/Kg		93	70 - 130	
o-Xylene	<0.00200	U	0.100	0.09660		mg/Kg		97	70 _ 130	

MS MS

Surrogate	%Recovery Qualiti	er Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	97	70 <sub>-</sub> 130

Lab Sample ID: 880-57656-A-1-C MSD

**Matrix: Solid** 

Analysis Batch: 109358

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 109359

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1089		mg/Kg		109	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.09768		mg/Kg		98	70 _ 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09036		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1798		mg/Kg		90	70 _ 130	3	35
o-Xylene	<0.00200	U	0.100	0.09310		mg/Kg		93	70 _ 130	4	35

MSD MSD

мв мв

Surroyate	70 Recovery	Qualifier	LIIIII
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-109270/1-A

**Matrix: Solid** 

Analysis Batch: 109396

Gasoline Range Organics

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 109270

Result Qualifier RL MDL Unit Prepared Analyzed <50.0 U 50.0 05/02/25 09:09 05/05/25 09:32 mg/Kg

(GRO)-C6-C10

Analyte

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

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

Lab Sample ID: MB 880-109270/1-A

**Matrix: Solid** 

Analysis Batch: 109396

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 109270** 

Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	m	ng/Kg		05/02/25 09:09	05/05/25 09:32	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	m	ng/Kg		05/02/25 09:09	05/05/25 09:32	1

MB MB

MR MR

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115	70 _ 130	05/02/25 09:09	05/05/25 09:32	1
o-Terphenyl (Surr)	104	70 - 130	05/02/25 09:09	05/05/25 09:32	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-109270/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 109396 **Prep Batch: 109270** 

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 980.0 mg/Kg 98 70 \_ 130 (GRO)-C6-C10 1000 969.0 70 \_ 130 Diesel Range Organics (Over mg/Kg 97 C10-C28)

Limits

LCS LCS %Recovery Qualifier Surrogate

1-Chlorooctane (Surr) 157 S1+ 70 \_ 130 o-Terphenyl (Surr) 135 S1+ 70 - 130

Lab Sample ID: LCSD 880-109270/3-A

Matrix: Solid

Analysis Batch: 109396

Prep Type: Total/NA

**Prep Batch: 109270** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	918.1		mg/Kg		92	70 _ 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	934.8		mg/Kg		93	70 _ 130	4	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 147 S1+ 70 - 130 o-Terphenyl (Surr) 125 70 - 130

Lab Sample ID: 890-8073-A-33-B MS

**Matrix: Solid** 

Analysis Batch: 109396

Client Sample ID: Matrix Spike

Prep Type: Total/NA

**Prep Batch: 109270** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	994	1090		mg/Kg		110	70 _ 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	994	978.6		mg/Kg		98	70 _ 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		70 _ 130
o-Terphenyl (Surr)	100		70 - 130

Client: Carmona Resources

Analysis Batch: 109396

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

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

Lab Sample ID: 890-8073-A-33-C MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

**Prep Batch: 109270** 

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	994	1034		mg/Kg		104	70 _ 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	994	1010		mg/Kg		102	70 _ 130	3	20
C10_C28\											

**Matrix: Solid** 

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)			70 - 130
o-Terphenyl (Surr)	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109360/1-A Client Sample ID: Method Blank

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 109363

мв мв

Analyte		Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0 U	J	10.0	mg/K	9		05/03/25 00:08	1

Lab Sample ID: LCS 880-109360/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 109363

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	230.5		mg/Kg		92	90 _ 110	

Lab Sample ID: LCSD 880-109360/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble** 

Matrix: Solid

Analysis Batch: 109363

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	228.7		ma/Ka		91	90 110		20	

Lab Sample ID: 880-57655-1 MS Client Sample ID: Backfill Sample **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 109363

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	144		251	397.9		ma/Ka		101	90 _ 110	

Lab Sample ID: 880-57655-1 MSD Client Sample ID: Backfill Sample

**Matrix: Solid** 

Analysis Batch: 109363

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	144		251	395.6		mg/Kg		100	90 _ 110	1	20

**Prep Type: Soluble** 

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1 SDG: Lea County NM

### **GC VOA**

### Analysis Batch: 109358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Total/NA	Solid	8021B	109359
880-56959-A-21-A MB	Method Blank	Total/NA	Solid	8021B	109359
MB 880-109359/5-A	Method Blank	Total/NA	Solid	8021B	109359
LCS 880-109359/1-A	Lab Control Sample	Total/NA	Solid	8021B	109359
LCSD 880-109359/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109359
880-57656-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	109359
880-57656-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109359

#### Prep Batch: 109359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Total/NA	Solid	5035	
880-56959-A-21-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-109359/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109359/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109359/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57656-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-57656-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **Analysis Batch: 109422**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Total/NA	Solid	Total BTEX	

### **GC Semi VOA**

### **Prep Batch: 109270**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Total/NA	Solid	8015NM Prep	
MB 880-109270/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109270/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8073-A-33-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8073-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 109396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Total/NA	Solid	8015B NM	109270
MB 880-109270/1-A	Method Blank	Total/NA	Solid	8015B NM	109270
LCS 880-109270/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109270
LCSD 880-109270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109270
890-8073-A-33-B MS	Matrix Spike	Total/NA	Solid	8015B <b>NM</b>	109270
890-8073-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B <b>NM</b>	109270

#### Analysis Batch: 109471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Total/NA	Solid	8015 NM	

### HPLC/IC

### Leach Batch: 109360

Released to Imaging: 5/20/2025 1:42:03 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Soluble	Solid	DI Leach	
MB 880-109360/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

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# **QC Association Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1 SDG: Lea County NM

# **HPLC/IC (Continued)**

## Leach Batch: 109360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-109360/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109360/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57655-1 MS	Backfill Sample	Soluble	Solid	DI Leach	
880-57655-1 MSD	Backfill Sample	Soluble	Solid	D <b>l</b> Leach	

### Analysis Batch: 109363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57655-1	Backfill Sample	Soluble	Solid	300.0	109360
MB 880-109360/1-A	Method Blank	Soluble	Solid	300.0	109360
LCS 880-109360/2-A	Lab Control Sample	Soluble	Solid	300.0	109360
LCSD 880-109360/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109360
880-57655-1 MS	Backfill Sample	Soluble	Solid	300.0	109360
880-57655-1 MSD	Backfill Sample	Soluble	Solid	300.0	109360

### **Lab Chronicle**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

# Client Sample ID: Backfill Sample

Date Collected: 04/29/25 00:00 Date Received: 05/02/25 14:14 Lab Sample ID: 880-57655-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109359	05/02/25 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109358	05/02/25 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109422	05/02/25 23:29	SM	EET MID
Total/NA	Analysis	8015 <b>NM</b>		1			109471	05/05/25 12:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109270	05/02/25 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109396	05/05/25 12:45	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109360	05/02/25 15:07	SA	EET MID
Soluble	Analysis	300.0		1			109363	05/03/25 00:30	SMC	EET MID

#### Laboratory References:

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

Eurofins Midland

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# **Accreditation/Certification Summary**

Client: Carmona Resources

Project/Site: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

## **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	P	T104704400	06-30-25
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 <b>NM</b>		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

## **Method Summary**

Client: Carmona Resources

Method

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Project/Site: Little Betty 20 (04.13.2025)

**Method Description** 

Total BTEX Calculation

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 880-57655-1

SDG: Lea County NM

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID

**EET MID** 

EET MID

**EET MID** 

SW846

SW846

ASTM

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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: Little Betty 20 (04.13.2025)

Job ID: 880-57655-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57655-1	Backfill Sample	Solid	04/29/25 00:00	05/02/25 14:14

Chain of Custod

880-57655 Chain of Custody Page 1 of 1	Work Order Comments			Reporting:Level II	s: EDD	Preservative Codes	None: NO DI Water: H <sub>2</sub> O	Cool: Cool MeOH: Me				Ho Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> . NaSO <sub>3</sub>	Zn Agetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments										gnature) Date/Time	57.69 	
		Program: UST/PST	State of Project:	Reporting:Le	Deliverables: EDD	ANALYSIS REQUEST																			Received by: (Signature)	ALINA -	
		λ	eld St, Suite 600	701	@coterra.com & ashton.thielke@coterra.com	ANALY				0.0	05 9	orid	luo			×								0			7
	Luig	Cimarex Energy	600 N Marienfield St,	Midland, TX 79701	n.thielke			(	- МРО		_	_		108	НЧТ	×									Time		
,	Laci Luig	Cima	900	Midla	า & ashto		de de					EX	18		i of	×			$\dashv$	-	-				Date/Time		
	ent)	me:		Ġ.	terra.con		Pres. Code	T	-	raster	6				Grab/# of Comp Cont	0				+		-				$\dashv$	
	Bill to: (if different)	Company Name:	Address:	City, State ZIP:	Email:  aci.luig@cc	Turn Around	✓ Rush	24 hr.		(res) No	125	1.0	1.5	1.4	Water Cc												
					Email:	Turn /	☐ Routine	Due Date:		Wet Ice:		Dr.	ading:	erature:	Soil	×											
						3.2025)		Mexico		Yes	Thermometer ID:	Correction Factor:	Temperature Reading:	Corrected Temperature:	Time										Relinquished by: (Signature)		
	е	ources	t Ste 500	9701		Little Betty 20 (04.13.2025)	2704	Lea County, New Mexico	쯌	Temp-Blank:	Yes No	Yes No MA	Yes No (N/A		Date	4/29/2025									Relinquished		
	Ashton Thielke	Carmona Resources	310 W Wall St Ste 500	Midland, TX 79701	432-813-8988	Little		Lea			)				tification	ample											
	Project Manager:		Address:	City, State ZIP:	Phone:	Project Name:	Project Number:	Project Location	Sampler's Name:	SAMPLE RECEIPT	Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample Identification	Backfill Sample							Comments:				

Page 18 of 19

## **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-57655-1

SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 57655 List Number: 1

Creator: Kramer, Jessica

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

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May 06, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: LITTLE BETTY 20 ( 04.13.2025 )

Enclosed are the results of analyses for samples received by the laboratory on 05/05/25 14:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 05/05/2025 Reported: 05/06/2025

Project Name: LITTLE BETTY 20 ( 04.13.2025 )

mg/kg

Project Number: 2704

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/05/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: CS - 6 (1.0') (H252668-01)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2025	ND	1.94	97.2	2.00	9.48	
Toluene*	<0.050	0.050	05/05/2025	ND	1.93	96.7	2.00	10.9	
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.95	97.6	2.00	12.1	
Total Xylenes*	<0.150	0.150	05/05/2025	ND	6.08	101	6.00	11.8	
Total BTEX	<0.300	0,300	05/05/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/06/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2025	ND	186	92.9	200	0,570	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	201	100	200	0.168	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					
Surrogate: 1-Chlorooctane	76.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	70.1	% 40.6-15	3						

Analyzed By: JH

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#### Analytical Results For:

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

Received: 05/05/2025 Reported: 05/06/2025

LITTLE BETTY 20 ( 04.13.2025 )

Project Number: 2704

Project Name:

RTFY 8021R

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/05/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: CS - 7 (1.0') (H252668-02)

BIEX 8021B	mg,	/kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2025	ND	1.94	97.2	2.00	9.48	
Toluene*	<0.050	0.050	05/05/2025	ND	1.93	96.7	2.00	10.9	
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.95	97.6	2.00	12.1	
Total Xylenes*	<0.150	0.150	05/05/2025	ND	6.08	101	6.00	11.8	
Total BTEX	<0.300	0.300	05/05/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/06/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2025	ND	186	92.9	200	0.570	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	201	100	200	0.168	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					
Surrogate: 1-Chlorooctane	83.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	75.8	% 40.6-15	3						

Applyzed By: 14

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#### Analytical Results For:

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

Received: 05/05/2025 Reported: 05/06/2025

 05/05/2025
 Sampling Date:
 05/0

 05/06/2025
 Sampling Type:
 Soil

 LITTLE BETTY 20 (04.13.2025 )
 Sampling Condition:
 Cool

Project Name: LITTL Project Number: 2704

Project Location: CIMAREX - LEA CO NM

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

05/05/2025

Sample ID: SW - 7 (1.0') (H252668-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2025	ND	1.94	97.2	2.00	9.48	
Toluene*	<0.050	0.050	05/05/2025	ND	1.93	96.7	2.00	10.9	
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.95	97.6	2.00	12.1	
Total Xylenes*	<0.150	0.150	05/05/2025	ND	6.08	101	6.00	11.8	
Total BTEX	<0.300	0.300	05/05/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 71.5-13	4						
Chloride, SM4500CI-B	e, SM4500Cl-B mg/kg			Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/06/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2025	ND	186	92.9	200	0.570	
DRO >C10-C28*	<10.0	10.0	05/05/2025	ND	201	100	200	0.168	
EXT DRO >C28-C36	<10.0	10.0	05/05/2025	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	73.8	% 40.6-15	3						

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05/05/2025

Tamara Oldaker

#### Analytical Results For:

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

Received: 05/05/2025 Reported: 05/06/2025

05/06/2025 Sampling Type: Soil
LITTLE BETTY 20 ( 04.13.2025 ) Sampling Condition: Cool & Intact

Analyzed By: JH

Sampling Date:

Sample Received By:

Project Number: 2704

Project Name:

BTEX 8021B

Project Location: CIMAREX - LEA CO NM

Sample ID: SW - 8 ( 1.0' ) (H252668-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2025	ND	1.94	97.2	2.00	9.48	
Toluene*	<0.050	0.050	05/05/2025	ND	1.93	96.7	2.00	10.9	
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.95	97.6	2.00	12.1	
Total Xylenes*	<0.150	0.150	05/05/2025	ND	6.08	101	6.00	11.8	
Total BTEX	<0.300	0.300	05/05/2025	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/06/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2025	ND	186	92.9	200	0.570	
DRO >C10-C28*	<10.0	10.0	05/06/2025	ND	201	100	200	0.168	
EXT DRO >C28-C36	<10.0	10.0	05/06/2025	ND					
Surrogate: 1-Chlorooctane	85.6	% 44.4-14	5						

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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#### **Notes and Definitions**

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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Celey D. Keene

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		y: (Signature)										Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No			Mexico		13.2025) ·							
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V												Sample Comments	Zn Acetate+NaOH: Zn	Na <sub>2</sub> S <sub>2</sub> U <sub>3</sub> : NaSU <sub>3</sub>	Na-S-O : Naso	H <sub>3</sub> PO <sub>4</sub> : HP	П <sub>2</sub> о U <sub>4</sub> : Н <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Pres			ST RRP			Work Order Comments	Page	the
RN/563.	Date/Time											Sample Comments	NaOH: Z	aSO <sub>3</sub>	ABIS	200	Na	Ŧ	Me	₽	Preservative Codes		ä			RC	S		
Ken	ime					(	)					nents	2000			No. of Contract of	NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H <sub>2</sub> O	Codes			Level IV		perfund		of 1	lela
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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 460841

#### **QUESTIONS**

ı	Operator:	OGRID:			
ı	Avant Operating, LLC	330396			
6001 Deauville Blvd	6001 Deauville Blvd	Action Number:			
ı	Midland, TX 79706	460841			
ı		Action Type:			
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)			

#### QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2510433552				
Incident Name	NAPP2510433552 LITTLE BETTY 20 701H (04.13.2025) @ 30-015-54871				
Incident Type	Produced Water Release				
Incident Status	Remediation Closure Report Received				
Incident Well	[30-015-54871] LITTLE BETTY 20 #701H				

Location of Release Source					
Please answer all the questions in this group.					
Site Name	Little Betty 20 701H (04.13.2025)				
Date Release Discovered	04/13/2025				
Surface Owner	Private				

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						

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	Cause: Equipment Failure   Well   Crude Oil   Released: 10 BBL   Recovered: 10 BBL   Lost: BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 10 BBL   Recovered: 10 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The Facility ESD on high water tank level and 701H ESP continued to run against the shut off valve. The hammer union leaking on the well head flow line resulted in a spill of 20 bbls. A vac truck was sent to site to recover material.

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Phone: (505) 629-6116

**Energy, Minerals and Natural Resources Oil Conservation Division** Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr.

QUESTIONS, Page 2

Action 460841

QUESTI	ONS (continued)
Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	460841
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 05/12/2025

**State of New Mexico** 

**Santa Fe, NM 87505** 

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

Phone: (505) 629-6116

Online Phone Directory
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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 460841

**QUESTIONS** (continued)

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	460841
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization					
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the				
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	NM OSE iWaters Database Search				
Did this release impact groundwater or surface water	No				
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:					
A continuously flowing watercourse or any other significant watercourse	Between 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	Between ½ and 1 (mi.)				
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)				
Any other fresh water well or spring	Between ½ and 1 (mi.)				
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)				
A wetland	Between 1 and 5 (mi.)				
A subsurface mine	Greater than 5 (mi.)				
An (non-karst) unstable area	Between ½ and 1 (mi.)				
Categorize the risk of this well / site being in a karst geology	Medium				
A 100-year floodplain	Between 1 and 5 (mi.)				
Did the release impact areas not on an exploration, development, production, or storage site	No				

Remediation Plan						
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.					
Requesting a remediation plan approval with this submission	Yes					
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.					
Have the lateral and vertical extents of contamination been fully delineated	Yes					
Was this release entirely contained within a lined containment area	No					
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)						
Chloride (EPA 300.0 or SM4500 Cl B)	336					
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					
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,					
On what estimated date will the remediation commence	04/28/2025					
On what date will (or did) the final sampling or liner inspection occur	05/05/2025					
On what date will (or was) the remediation complete(d)	05/07/2025					
What is the estimated surface area (in square feet) that will be reclaimed	1049					
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	1049					
What is the estimated volume (in cubic yards) that will be remediated 120						
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.						

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

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

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 4

Action 460841

**QUESTIONS** (continued)

Operator:	OGRID:				
Avant Operating, LLC	330396				
6001 Deauville Blvd	Action Number:				
Midland, TX 79706	460841				
	Action Type:				
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)				

#### QUESTIONS

Remediation Plan (continued)					
appropriate district office no later than 90 days after the release discovery date.					
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:					
(Select all answers below that apply.)					
Yes					
LEA LAND LANDFILL [FEEM0112342028]					
Not answered.					
Not answered.					
Not answered.					
Not answered.					
Not answered.					
Not answered.					
Not answered.					
Not answered.					
Not answered.					
Not answered.					

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

Name: Ashton Thielke Title: EHS Specialist I hereby agree and sign off to the above statement Email: Ashton.Thielke@coterra.com Date: 05/12/2025

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.

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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 5

Action 460841

**QUESTIONS** (continued)

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	460841
	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

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

Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 6

Action 460841

QUESTIONS (continued)

Operator:   OGRID:   Avant Operating, LLC   330396     Action Number:   Action Number:   OGRID:   Action Number:   OGRID:   Action Number:   OGRID:   OGRI	
Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	460841
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	457670
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/05/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1400

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have 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	1049	
What was the total volume (cubic yards) remediated	120	
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 removed from the site. All material from the well pad was removed via hydrovac including all material from the cellar of the wellhead. All material was disposed of properly.	

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 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: 05/12/2025

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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 7

Action 460841

**QUESTIONS** (continued)

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	460841
	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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 460841

#### **CONDITIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
6001 Deauville Blvd	Action Number:
Midland, TX 79706	460841
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

(	Created By		Condition Date
	scwells	None	5/20/2025