



## SITE INFORMATION

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**Closure Report**  
**Sandra Jean West CTB (02.26.2025)**  
**Incident ID: NAPP2505769942**  
**Lea County, New Mexico**  
**Unit N, Sec 23, T20S, R33E**  
**32.553702°, -103.637276°**

**Produced Water and Crude Oil Release**  
**Point of Release: Equipment Failure**  
**Release Date: 02.26.2025**

**Volume Released: 4 Barrels of Crude Oil and 10 Barrels of Produced Water**  
**Volume Recovered: 4 Barrels of Crude Oil and 9 Barrels of Produced Water**

**CARMONA RESOURCES**



**Prepared for:**  
**Coterra Energy Operating Co.**  
**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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June 5, 2025

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

Re: **Closure Report**  
**Sandra Jean West CTB (02.26.2025)**  
**Incident ID: NAPP2505769942**  
**Coterra Energy Operating Co.**  
**Site Location: Unit N, S23, T20S, R33E**  
**32.553702°, -103.637276°**  
**Lea County, New Mexico**

To whom it may concern:

On behalf of Coterra Energy Operating Co. (Coterra, formerly known as Avant Operating, LLC) Carmona Resources LLC, has prepared this letter to document the site assessment and remediation activities for the Sandra Jean West CTB release. The site is located at 32.553702°, -103.637276° within Unit N, S23, T20S, R33E in Lea County, New Mexico (Figures 1 and 2).

### **1.0 Site Information and Background**

Based on the Notification of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on February 26, 2025, due to equipment failure when the tank radars failed to read accurate levels, which resulted in the tanks overflowing. It resulted in approximately four (4) barrels of crude oil and ten (10) barrels of produced water to be released, with four (4) barrels of crude oil and nine barrels of produced water recovered. The release area was approximately 1,686 square feet. The spill boundaries are shown in Figure 3. The Notification of Release and Initial C-141 forms are attached in Appendix C.

### **2.0 Site Characterization and Groundwater**

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest well is approximately 1.18 miles Northeast of the site in S24, T20S, R33E, and was drilled in 1976. The well has a reported depth to groundwater of 173.99 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 Site Assessment Activities**

##### **Initial Assessment**

On April 24, 2025, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3), and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 4.0 ft bgs. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and Chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

##### **Vertical Delineation**

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

##### **Horizontal Delineation**

Horizontal delineation was achieved in all areas for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

#### **5.0 Remediation Activities**

On May 29, 2025, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on May 21, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-1 through S-3 were excavated to a depth of 1.5 ft bgs. A total of fourteen (14) confirmation floor samples (CS-1 through CS-14) 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 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 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and Chloride concentrations. Refer to Table 1. 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 of the backfill material was collected for laboratory analysis on May 30, 2025, before being utilized. The backfill material was sourced from the Lea Land Disposal. Refer to Table 2. Approximately 1,686 sq ft of contamination was remediated, resulting in 94 cubic yards of material excavated and transported offsite for proper disposal.





## **6.0 Liner Inspection Activities**

Before conducting the liner inspection, a crew was onsite to remove all freestanding fluids within the facility. Once the lined containment was thoroughly cleaned, the NMOCD division office was notified via NMOCD portal on June 4, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. On June 9, 2025, Coterra conducted liner inspection activities and confirmed that the liner was intact with no integrity issues. Refer to the Photolog in Appendix B.

## **7.0 Conclusions**

Based on the assessment and analytical data from the remediation and the liner inspection throughout the facility, no further actions are required at the site. Coterra formally requests the closure of the spill. The entire area will be reclaimed and revegetated during normal P/A activities per NMAC 19.15.29.13. If you have any questions regarding this report or need additional information, please contact us at 432-813-8988.

Sincerely,  
**Carmona Resources, LLC**

Ashton Thielke  
Environmental Manager

Gilbert Priego  
Project Manager



## FIGURES

CARMONA RESOURCES





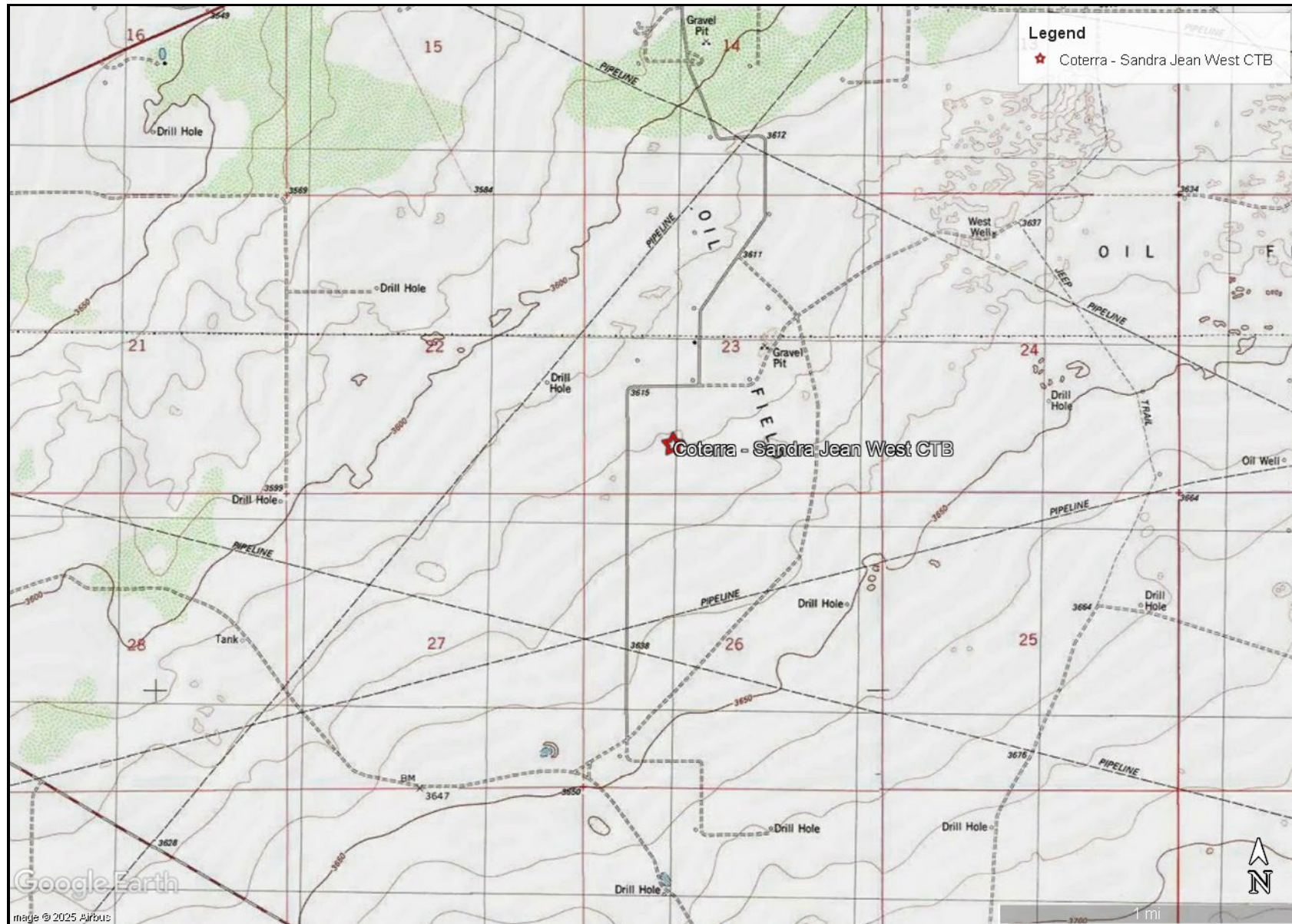


OVERVIEW MAP  
COTERRA ENERGY OPERATING CO.  
SANDRA JEAN WEST CTB (02.26.2025)  
LEA COUNTY, NEW MEXICO  
32.553702°, -103.637276°



FIGURE 1





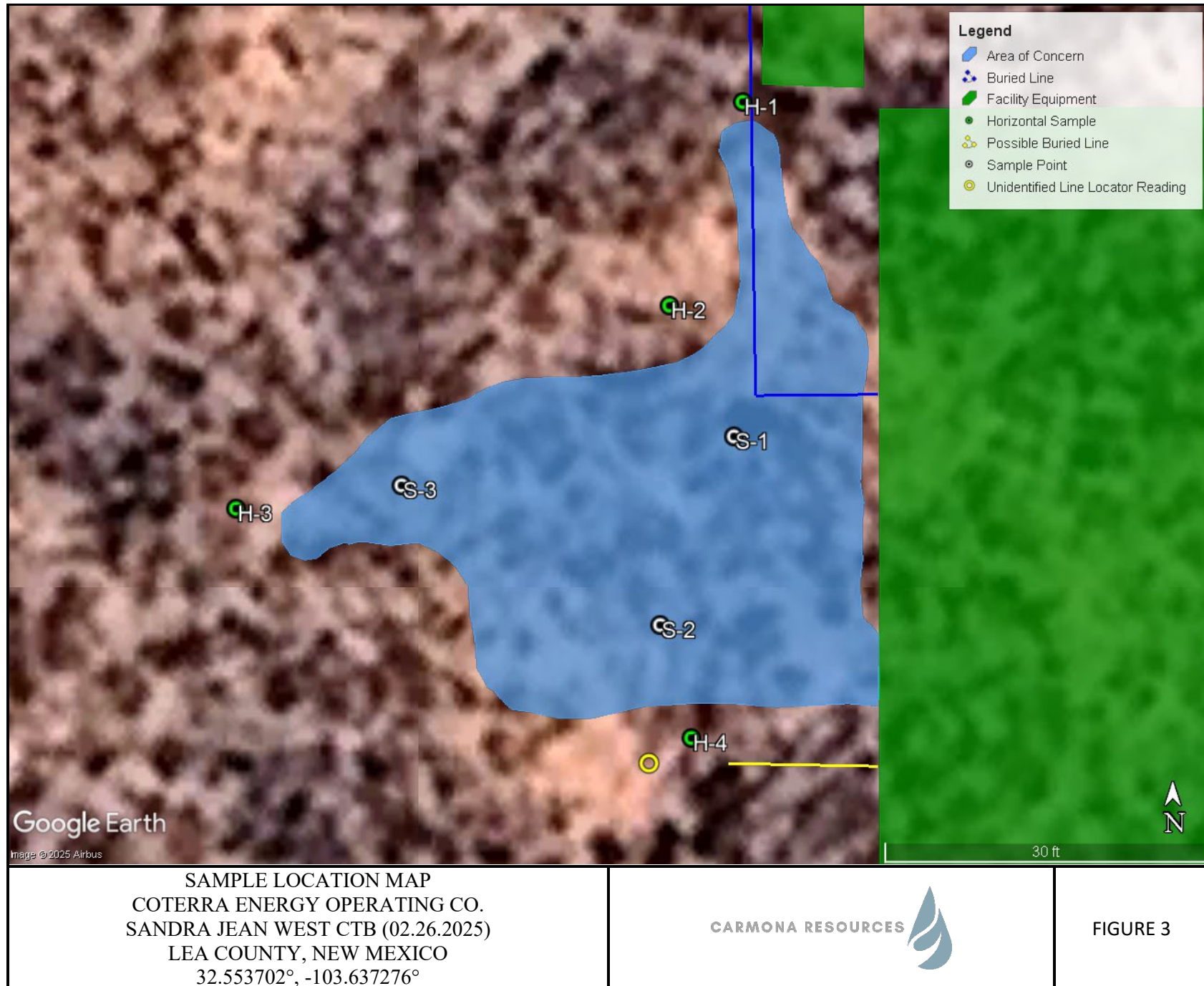
TOPOGRAPHIC MAP  
 COTERRA ENERGY OPERATING CO.  
 SANDRA JEAN WEST CTB (02.26.2025)  
 LEA COUNTY, NEW MEXICO  
 32.553702°, -103.637276°

CARMONA RESOURCES

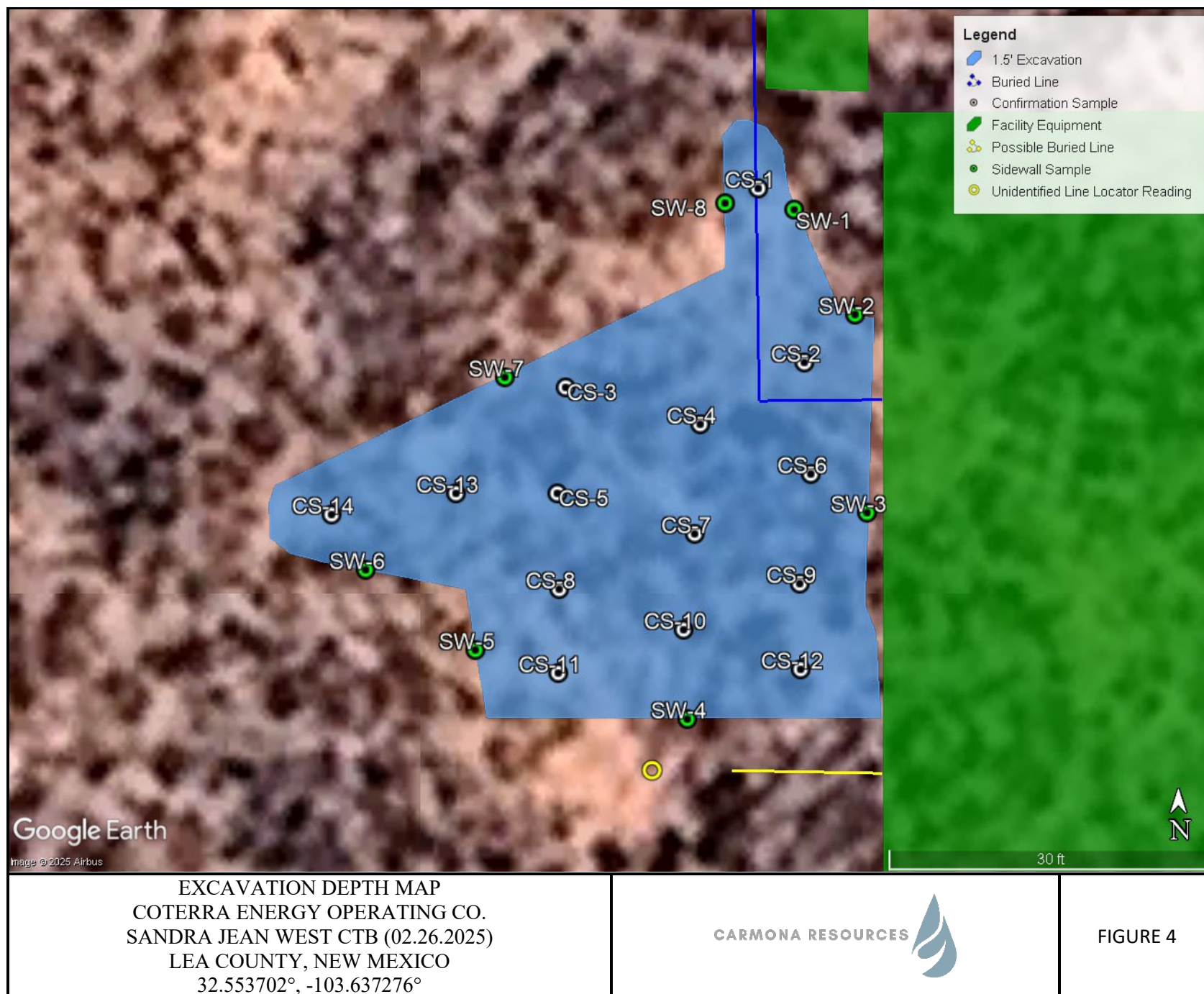


FIGURE 2

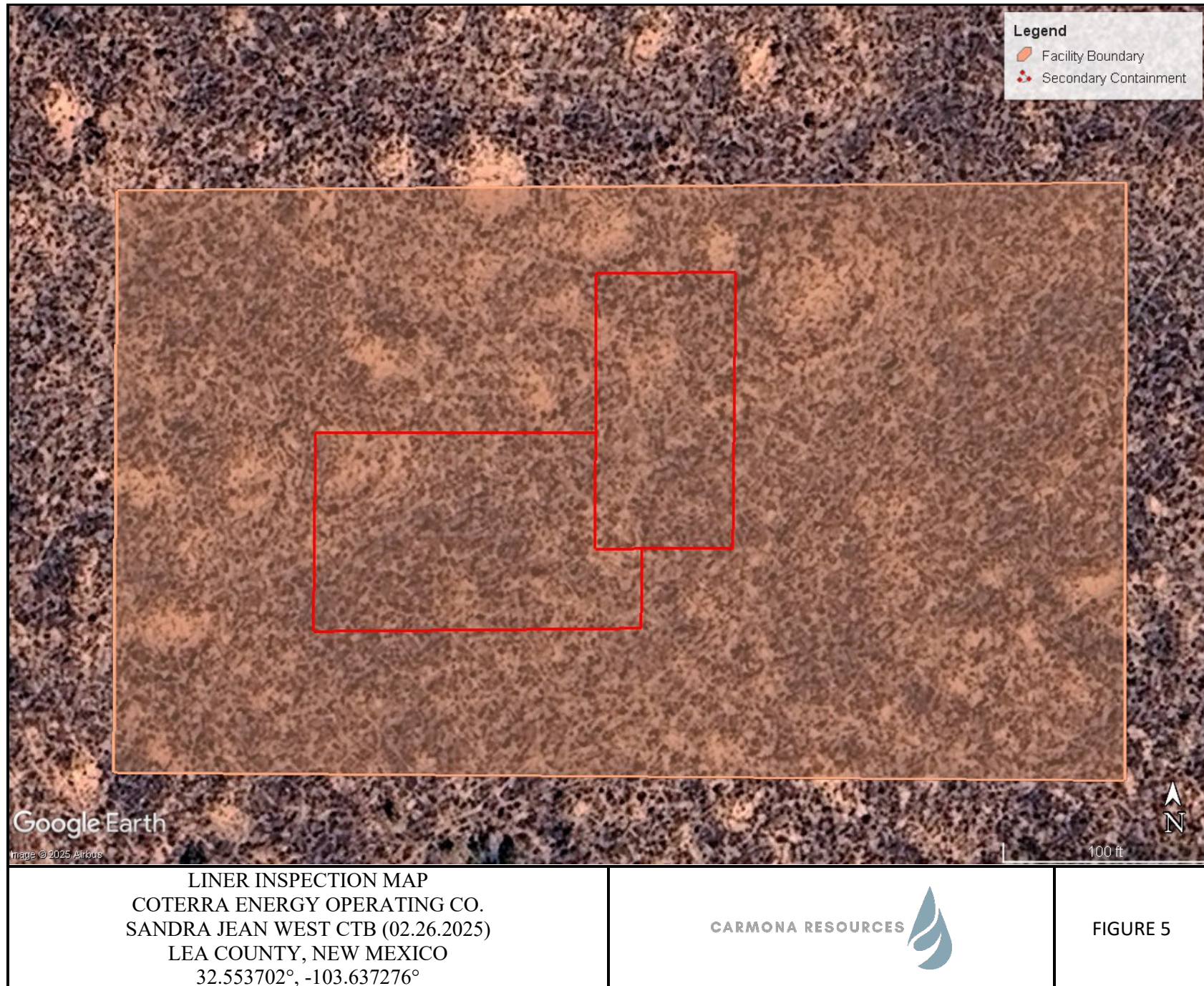














## APPENDIX A


CARMONA RESOURCES





**Table 1**  
**Coterra Energy Operating Co.**  
**Sandra Jean West CTB (02.26.2025)**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-1</b>	4/24/2025	0-1.0'	<498	3,390	<498	3,390	0.0240	0.366	0.256	0.882	1.53	220
	"	1.5'	<50.0	53.4	<50.0	53.4	<0.00202	0.00313	<0.00202	0.00629	0.00942	69.8
	"	2.0'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	74.1
	"	3.0'	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	98.6
<b>S-2</b>	4/24/2025	0-1.0'	<50.1	408	<50.1	408	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	119
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	72.8
	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	86.1
	"	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	74.0
<b>S-3</b>	4/24/2025	0-1.0'	984	5,600	<252	6,580	0.00242	0.257	2.56	9.99	12.8	135
	"	1.5'	<50.1	74.6	<50.1	74.6	<0.00202	0.00242	0.00806	0.0316	0.0421	92.5
	"	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	89.2
	"	3.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	83.6
	"	4.0'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	83.3
<b>Regulatory Criteria<sup>A</sup></b>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

<sup>A</sup> – Table 1 - 19.15.29 NMAC  
mg/kg - milligram per kilogram  
TPH - Total Petroleum Hydrocarbons  
ft - feet  
(S) - Sample Point  
 Removed



**Table 1**  
**Coterra Energy Operating Co.**  
**Sandra Jean West CTB (02.26.2025)**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	4/24/2025	0-0.5'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	95.1
H-2	4/24/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	124
H-3	4/24/2025	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	97.3
H-4	4/24/2025	0-0.5'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	95.8
<i>Regulatory Criteria</i> <sup>A</sup>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

<sup>A</sup> – Table 1 - 19.15.29 NMAC  
mg/kg - milligram per kilogram  
TPH - Total Petroleum Hydrocarbons  
ft - feet  
(H) - Horizontal Sample



**Table 2**  
**Coterra Energy Operating Co.**  
**Sandra Jean West CTB (02.26.2025)**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-2	5/29/2025	1.5	<10.0	32.1	<10.0	32.1	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-3	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-4	5/29/2025	1.5	<10.0	32.1	<10.0	32.1	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-5	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-6	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-7	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-8	5/29/2025	1.5	<10.0	12.1	<10.0	12.1	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-9	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-10	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-11	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-12	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-13	5/29/2025	1.5	<10.0	12.7	<10.0	12.7	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-14	5/29/2025	1.5	<10.0	11.6	<10.0	11.6	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-1	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-2	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-4	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-8	5/29/2025	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Lea Land - Backfill	5/30/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Regulatory Criteria <sup>A</sup>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

<sup>A</sup> – Table 1 - 19.15.29 NMAC  
mg/kg - milligram per kilogram  
TPH - Total Petroleum Hydrocarbons  
ft - feet  
(CS) - Confirmation Sample  
(SW) - Sidewall Sample



## APPENDIX B

CARMONA RESOURCES





# PHOTOGRAPHIC LOG

Coterra Energy Operating Co.

## Photograph No. 1

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**

View South, area of CS-1 through CS-12.



## Photograph No. 2

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**

View North, area of CS-1 through CS-12.



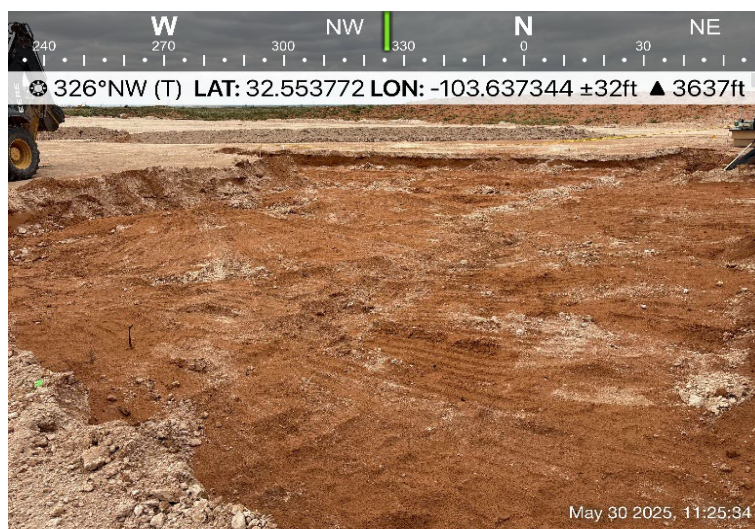
## Photograph No. 3

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**

View Northwest, area of CS-1 through CS-12.





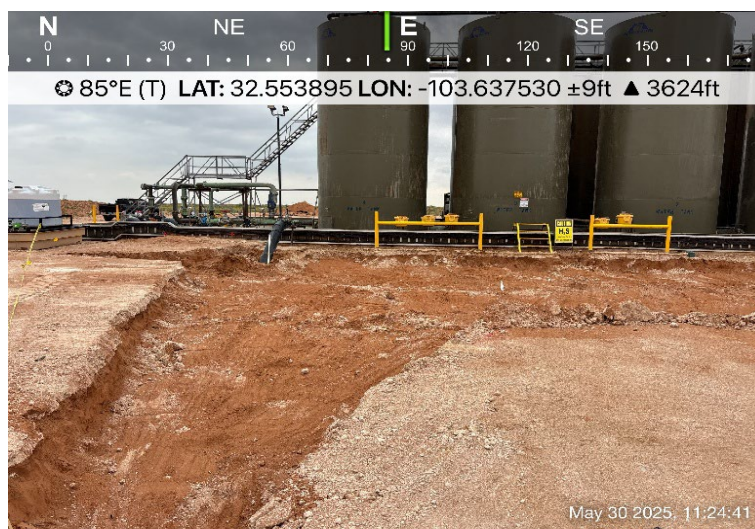
**PHOTOGRAPHIC LOG****Coterra Energy Operating Co.****Photograph No. 4**

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**

View East, area of CS-13 through CS-14.

**Photograph No. 5**

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**

View East, Backfilled area

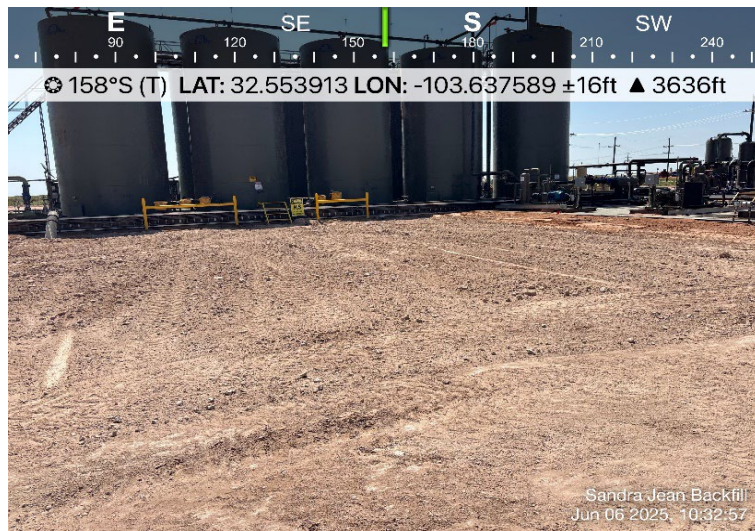
**Photograph No. 6**

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**

View South, Backfilled area





# PHOTOGRAPHIC LOG

Coterra Energy Operating Co.

## Photograph No. 7

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**  
View South, Backfilled area

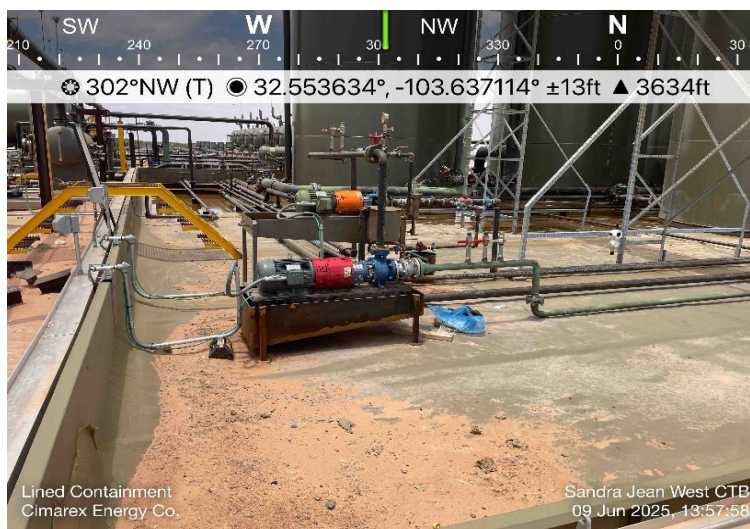


## Photograph No. 8

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**  
View Northwest of lined containment.

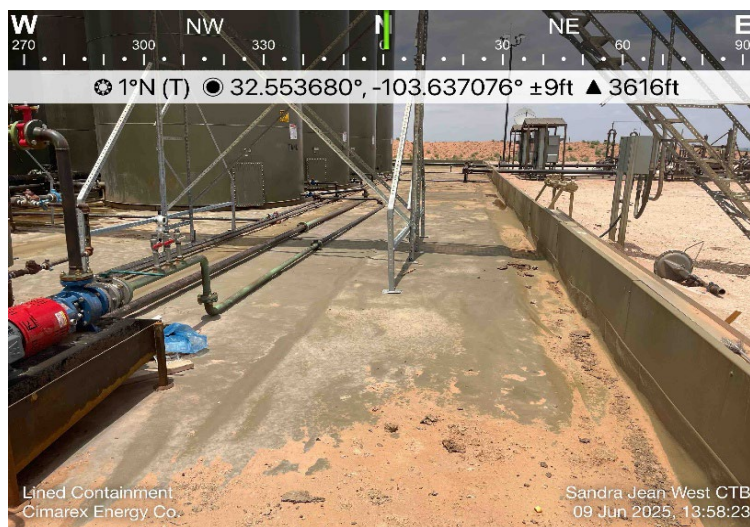


## Photograph No. 9

**Facility:** Sandra Jean West CTB  
(02.26.2025)

**County:** Lea County, New Mexico

**Description:**  
View North of lined containment.





**PHOTOGRAPHIC LOG****Coterra Energy Operating Co.****Photograph No. 10****Facility:** Sandra Jean West CTB  
(02.26.2025)**County:** Lea County, New Mexico**Description:**

View South of lined containment.

**Photograph No. 11****Facility:** Sandra Jean West CTB  
(02.26.2025)**County:** Lea County, New Mexico**Description:**

View West of lined containment.

**Photograph No. 12****Facility:** Sandra Jean West CTB  
(02.26.2025)**County:** Lea County, New Mexico**Description:**

View East of lined containment.





## APPENDIX C

CARMONA RESOURCES





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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 435971

QUESTIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 435971
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

<b>Location of Release Source</b> <i>Please answer all the questions in this group.</i>	
Site Name	Sandra Jean West CTB
Date Release Discovered	02/26/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b> <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Crude Oil   Released: 4 BBL   Recovered: 4 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 10 BBL   Recovered: 9 BBL   Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The tank radars were registering inaccurate levels. This prevented the water transfer pumps from kicking on and transferring water from the tanks. As a result, the water tanks over-ran out of the thief hatch and into the lined containment. A total of 13 barrels was released into the lined containment and an estimated 1.5 barrels over-sprayed onto the facility pad due to the wind. Vac trucks recovered all fluids from the lined containment. Impacted soils will be remediated and a liner inspection will be scheduled in the coming weeks.



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 435971

QUESTIONS (continued)

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 435971
	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.



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

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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**

ACKNOWLEDGMENTS

Action 435971

**ACKNOWLEDGMENTS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 435971
	Action Type: [NOTIFY] Notification Of Release (NOR)

**ACKNOWLEDGMENTS**

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



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CONDITIONS

Action 435971

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 435971
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
lluig	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	2/26/2025





AVANT OPERATING  
SANDRA JEAN WEST CTB  
LEA, NM

5:46

LTE 89

[< Spill Calc - Lite](#)

## Rectangle or Square Shape Spill

L(Ft)	W(Ft)	D(In)
<input type="text" value="100"/>	<input type="text" value="50"/>	<input type="text" value=".25"/>
Tank Size (Ft)	Tank Count	
<input type="text" value="16"/>	<input type="text" value="7"/>	



If you need to account for tank displacement, input tank OD in the correct textbox above, along with how many tanks. If you are just calculating a rectangle or square shape just leave Tank OD and Tank Count empty.

Spill Before Disp (Bbls):	18.55
Tank Displacement Vol (Bbls):	5.22
Total Spill Bbls:	13.33
Total Spill Gals:	559.82

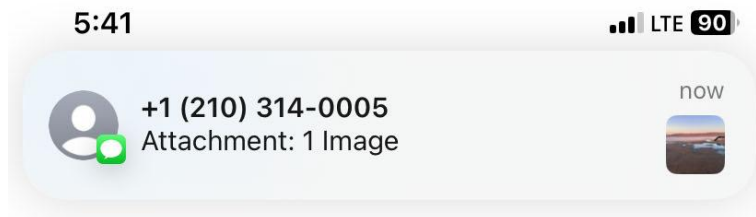


KellyJG.net





AVANT OPERATING  
SANDRA JEAN WEST CTB  
LEA, NM





Rectangle or Square Shape Spill

L(Ft)	W(Ft)	D(In)
20	20	.25

Tank Size (Ft)      Tank Count

Tank OD	Tank Count
---------	------------

If you need to account for tank displacement, input tank OD in the correct textbox above, along with how many tanks. If you are just calculating a rectangle or square shape just leave Tank OD and Tank Count empty.

Spill Before Disp (Bbls):	1.48
Tank Displacement Vol (Bbls):	0.00
Total Spill Bbls:	1.48
Total Spill Gals:	62.33





AVANT OPERATING  
SANDRA JEAN WEST CTB  
LEA, NM





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Phone: (505) 476-3441

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

QUESTIONS

Action 436050

QUESTIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 436050
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2505769942
Incident Name	NAPP2505769942 SANDRA JEAN WEST CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2433665921] Sandra Jean West CTB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Sandra Jean West CTB
Date Release Discovered	02/26/2025
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Crude Oil   Released: 4 BBL   Recovered: 4 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 10 BBL   Recovered: 9 BBL   Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The tank radars were registering inaccurate levels. This prevented the water transfer pumps from kicking on and transferring water from the tanks. As a result, the water tanks over-ran out of the thief hatch and into the lined containment. A total of 13 barrels was released into the lined containment and an estimated 1.5 barrels over-sprayed onto the facility pad due to the wind. Vac trucks recovered all fluids from the lined containment. Impacted soils will be remediated and a liner inspection will be scheduled in the coming weeks.



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

QUESTIONS, Page 2

Action 436050

**QUESTIONS (continued)**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 436050
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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 Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 02/27/2025
--	---



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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 3

Action 436050

**QUESTIONS (continued)**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 436050
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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CONDITIONS

Action 436050

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 436050
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/27/2025



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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

Action 465573

**QUESTIONS**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 465573
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2505769942
Incident Name	NAPP2505769942 SANDRA JEAN WEST CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2433665921] Sandra Jean West CTB

Location of Release Source	
Site Name	Sandra Jean West CTB
Date Release Discovered	02/26/2025
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/29/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988) will be onsite conducting confirmation sampling from 05.29.2025 to 05.30.2025
Please provide any information necessary for navigation to sampling site	32.553702,-103.637276



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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

CONDITIONS

Action 465573

CONDITIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 465573
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/21/2025



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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

Action 470157

**QUESTIONS**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 470157
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2505769942
Incident Name	NAPP2505769942 SANDRA JEAN WEST CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2433665921] Sandra Jean West CTB

Location of Release Source	
Site Name	Sandra Jean West CTB
Date Release Discovered	02/26/2025
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	8,900
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	06/09/2025
Time liner inspection will commence	12:00 PM
Please provide any information necessary for observers to liner inspection	Carmona Resources - 432-813-8988
Please provide any information necessary for navigation to liner inspection site	32.553702,-103.637276 DANGEROUS H2S LEVELS AT FACILITY



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

CONDITIONS

Action 470157

CONDITIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 470157
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
lluig	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.	6/4/2025



## APPENDIX D

CARMONA RESOURCES



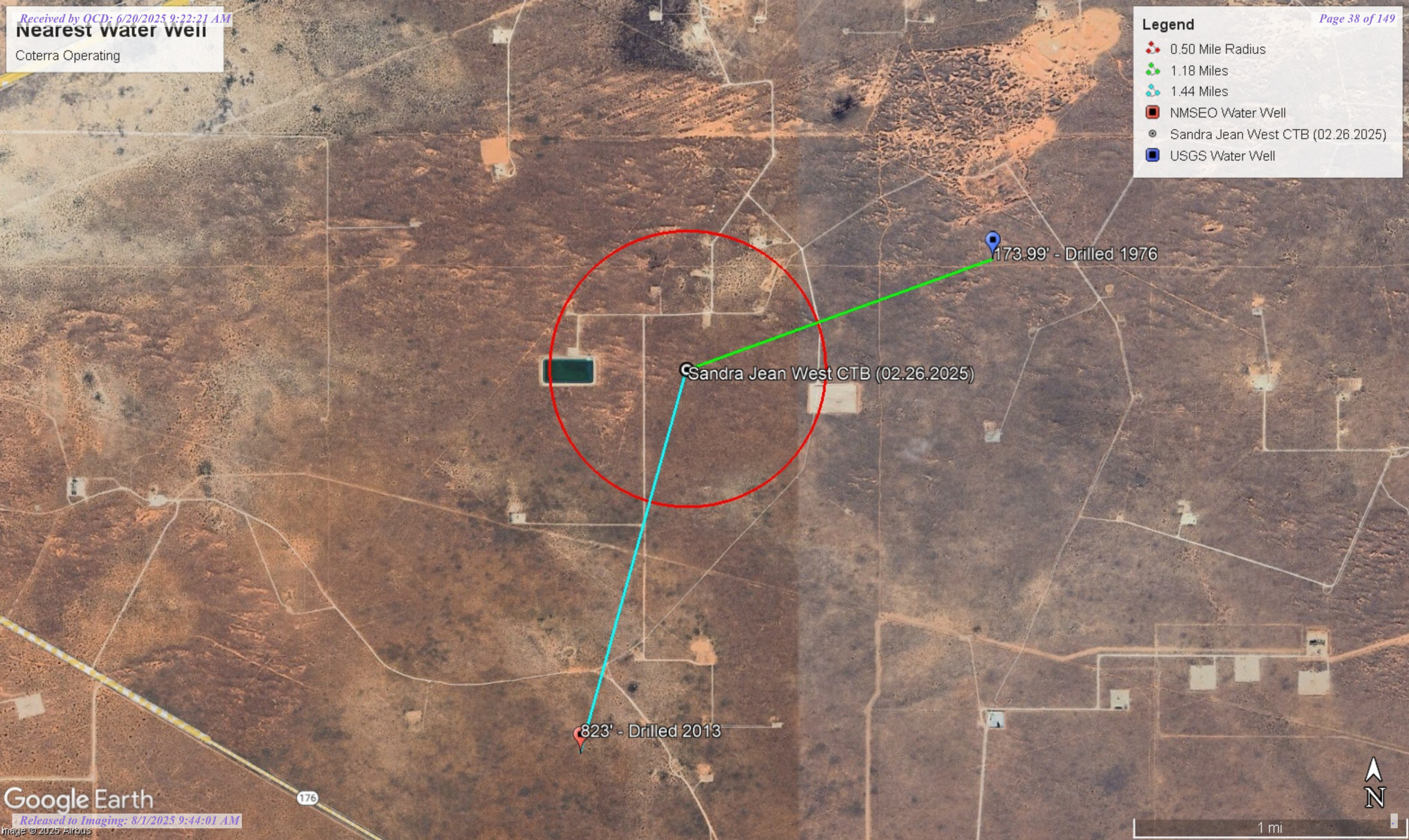


**Nearest water well**

Coterra Operating

**Legend**

- 0.50 Mile Radius
- 1.18 Miles
- 1.44 Miles
- NMSEO Water Well
- Sandra Jean West CTB (02.26.2025)
- USGS Water Well







**Low Karst**

Coterra Operating

**Legend**

-  Low
-  Sandra Jean West CTB (02.26.2025)

Sandra Jean West CTB (02.26.2025)







New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance (meters)	Well Depth (In feet)	Depth Water	Water Column
<a href="#">CP 01151 POD1</a>		CP	LE				32	22S	36E	627036.9	3601186.2		1704	823		
<a href="#">CP 00798 POD1</a>		CP	LE	NE	NW	NW	24	20S	33E	629348.0	3603892.0 *		1889	850		
<a href="#">CP 01980 POD1</a>		CP	LE	NE	SW	SW	11	20S	33E	627611.5	3605794.6		3181	55	36	19

Average Depth to Water: 36 feet

Minimum Depth: 36 feet

Maximum Depth: 36 feet

Record Count: 3

UTM Filters (in meters):

Easting: 627942.00

Northing: 3602630.00

Radius: 4000

\* UTM location was derived from PLSS - see Help

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





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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 323335103370601

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

USGS 323335103370601 20S.33E.24.12411

Lea County, New Mexico  
Latitude 32°33'35", Longitude 103°37'06" NAD27  
Land-surface elevation 3,641 feet above NAVD88  
The depth of the well is 676 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measured)
1968-03-19			D	62610	3242.63	NGVD29	1	Z		
1968-03-19			D	62611	3244.19	NAVD88	1	Z		
1968-03-19			D	72019	396.81		1	Z		
1971-02-03			D	62610	3225.89	NGVD29	P	Z		
1971-02-03			D	62611	3227.45	NAVD88	P	Z		
1971-02-03			D	72019	413.55		P	Z		
1972-09-22			D	62610	3234.74	NGVD29	1	Z		
1972-09-22			D	62611	3236.30	NAVD88	1	Z		
1972-09-22			D	72019	404.70		1	Z		
1976-02-20			D	62610	3200.13	NGVD29	P	Z		
1976-02-20			D	62611	3201.69	NAVD88	P	Z		
1976-02-20			D	72019	439.31		P	Z		
1976-04-15			D	62610	3465.45	NGVD29	1	Z		
1976-04-15			D	62611	3467.01	NAVD88	1	Z		
1976-04-15			D	72019	173.99		1	Z		



Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[Explanation of terms](#)  
[Subscribe for system changes](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)  
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2025-04-03 11:15:07 EDT  
0.33 0.24 nadww02





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

STATE ENGINEER OFFICE  
ROSWELL

7013 APR 211 A 10:57

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS				CITY STATE ZIP			
	WELL LOCATION (FROM GPS)				* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	DEGREES MINUTES SECONDS				* DATUM REQUIRED: WGS 84			
2. DRILLING & CASING INFORMATION	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							
	LICENSE NUMBER				NAME OF LICENSED DRILLER		NAME OF WELL DRILLING COMPANY	
	DRILLING STARTED		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT)	
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				DEPTH WATER FIRST ENCOUNTERED (FT)			
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:				STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input checked="" type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	
	FROM TO							
	3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)		LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)
FROM TO								

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1151	POD NUMBER	1	TRN NUMBER	520275
LOCATION	OWD	225.35E.35.222			PAGE 1 OF 2



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	3	3	Top soil	<input type="radio"/> Y <input checked="" type="radio"/> N	
	3	11	8	Caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	11	20	9	Sandy Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	20	28	8	Dry Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	28	31	3	Rock	<input type="radio"/> Y <input checked="" type="radio"/> N	
	31	53	22	Red Sandy Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	53	131	78	Red Bed	<input type="radio"/> Y <input checked="" type="radio"/> N	
	131	162	31	Lime	<input type="radio"/> Y <input checked="" type="radio"/> N	
	162	193	31	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	193	260	67	Red Bed	<input type="radio"/> Y <input checked="" type="radio"/> N	
	260	336	76	Rock	<input type="radio"/> Y <input checked="" type="radio"/> N	
	336	484	148	Red Bed w/sand stringers	<input type="radio"/> Y <input checked="" type="radio"/> N	
	484	519	35	Red & Blue Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	519	529	10	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	529	543	14	Hard Red & Blue Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	543	638	95	Red & Blue clay w/tight sand stringers	<input type="radio"/> Y <input checked="" type="radio"/> N	
	638	730	92	Red & Blue clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	730	732	2	Rock	<input type="radio"/> Y <input checked="" type="radio"/> N	
	732	823	91	Red Bed	<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm):	
<input checked="" type="radio"/> AIRLIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					Dry	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ON-SITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	<p>THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:</p> <p><i>Billy Bantler</i> <u>Billy BANTLER</u> <u>4-21-13</u></p> <p>SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE</p>					

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 06/08/2012)

FILE NUMBER

CP-1151

POD NUMBER

1

TRN NUMBER

520275

LOCATION

DWD

225.35E.35.222

PAGE 2 OF 2



## Locator Tool Report

### General Information:

Application ID: 29      Date: 02-24-2017      Time: 10:27:10

WR File Number: CP-01151  
Purpose: POINT OF DIVERSION

Applicant First Name: RANDALL  
Applicant Last Name: HICKS

GW Basin: CAPITAN  
County: LEA

Critical Management Area Name(s): NONE  
Special Condition Area Name(s): NONE  
Land Grant Name: NON GRANT

### PLSS Description (New Mexico Principal Meridian):

SE 1/4 of SE 1/4 of NW 1/4 of SE 1/4 of Section 27, Township 20S, Range 33E.

### Coordinate System Details:

Geographic Coordinates: *Well Drillers Lat and Long*

( Latitude: 32 Degrees 32 Minutes 26.8 Seconds N  
Longitude: 103 Degrees 38 Minutes 49.6 Seconds W )

### Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters)	N: 3,601,185	E: 627,036
NAD 1983(92) (Survey Feet)	N: 11,814,888	E: 2,057,202
NAD 1927 (Meters)	N: 3,600,982	E: 627,086
NAD 1927 (Survey Feet)	N: 11,814,223	E: 2,057,363

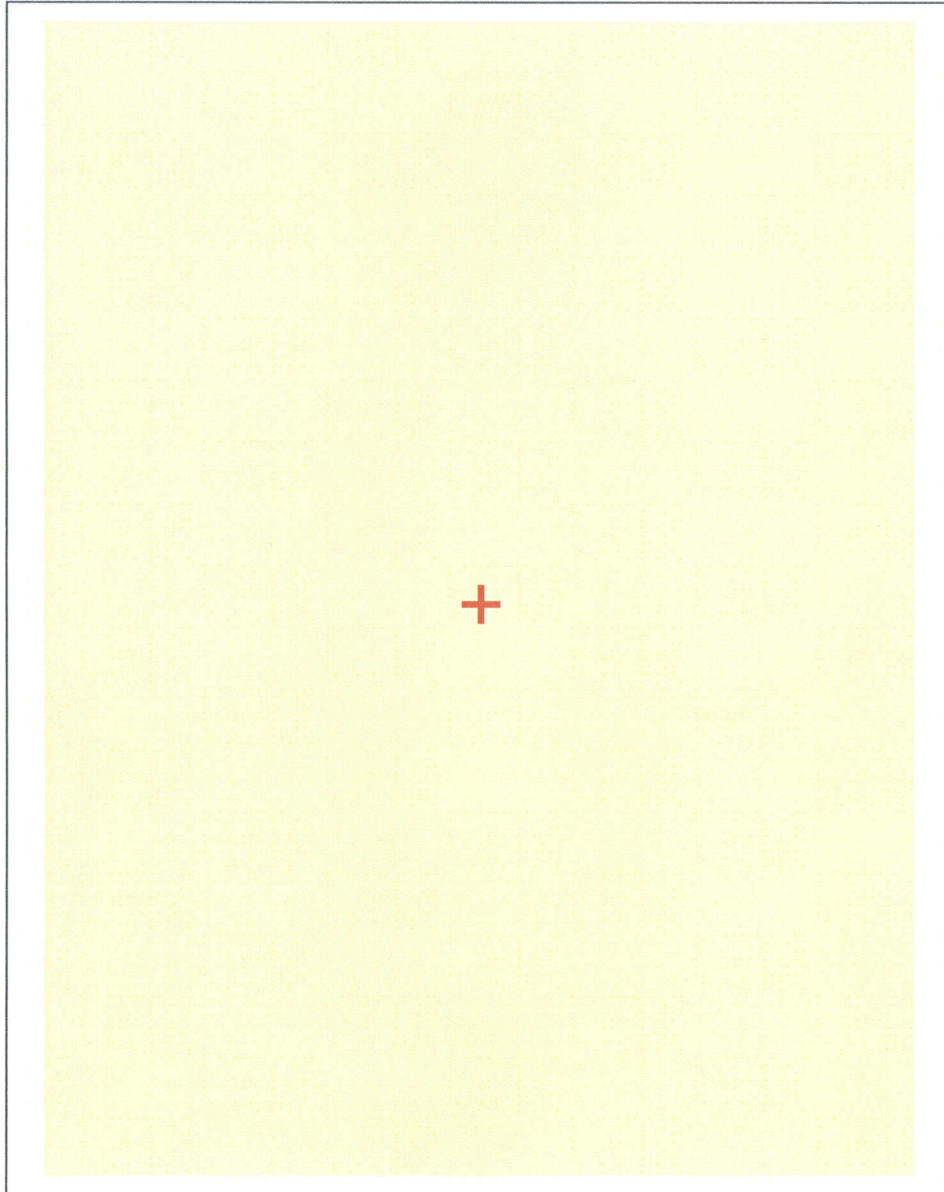
### State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 171,037	E: 229,454
NAD 1983(92) (Survey Feet)	N: 561,143	E: 752,801
NAD 1927 (Meters)	N: 171,018	E: 216,902
NAD 1927 (Survey Feet)	N: 561,081	E: 711,620



**NEW MEXICO OFFICE OF STATE ENGINEER**

**Locator Tool Report**



WR File Number: CP-01151

Scale: 1:57,473

Northing/Easting: UTM83(92) (Meter): N: 3,601,185

E: 627,036

Northing/Easting: SPCS83(92) (Feet): N: 561,143

E: 752,801

GW Basin: Capitan



Scott A. Verhines, P.E.  
State Engineer



Well Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 520275  
File Nbr: CP 01151  
Well File Nbr: CP 01151 POD1

Apr. 29, 2013

RANDALL T HICKS  
CAZA OPERATING LLC  
901 RIO GRANDE NW, F-142  
ALBUQUERQUE, NM 87104

Greetings:

The above numbered permit was issued in your name on 01/22/2013.

The Well Record was received in this office on 04/24/2013, stating that it had been completed on 04/12/2013, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/31/2014.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "Y Mendiola".

Yolanda Mendiola  
(575) 622-6521

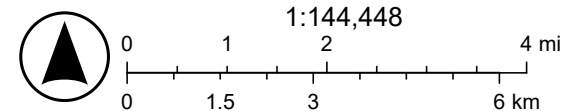


# Sandra Jean West CTB (02.26.2025)



4/3/2025

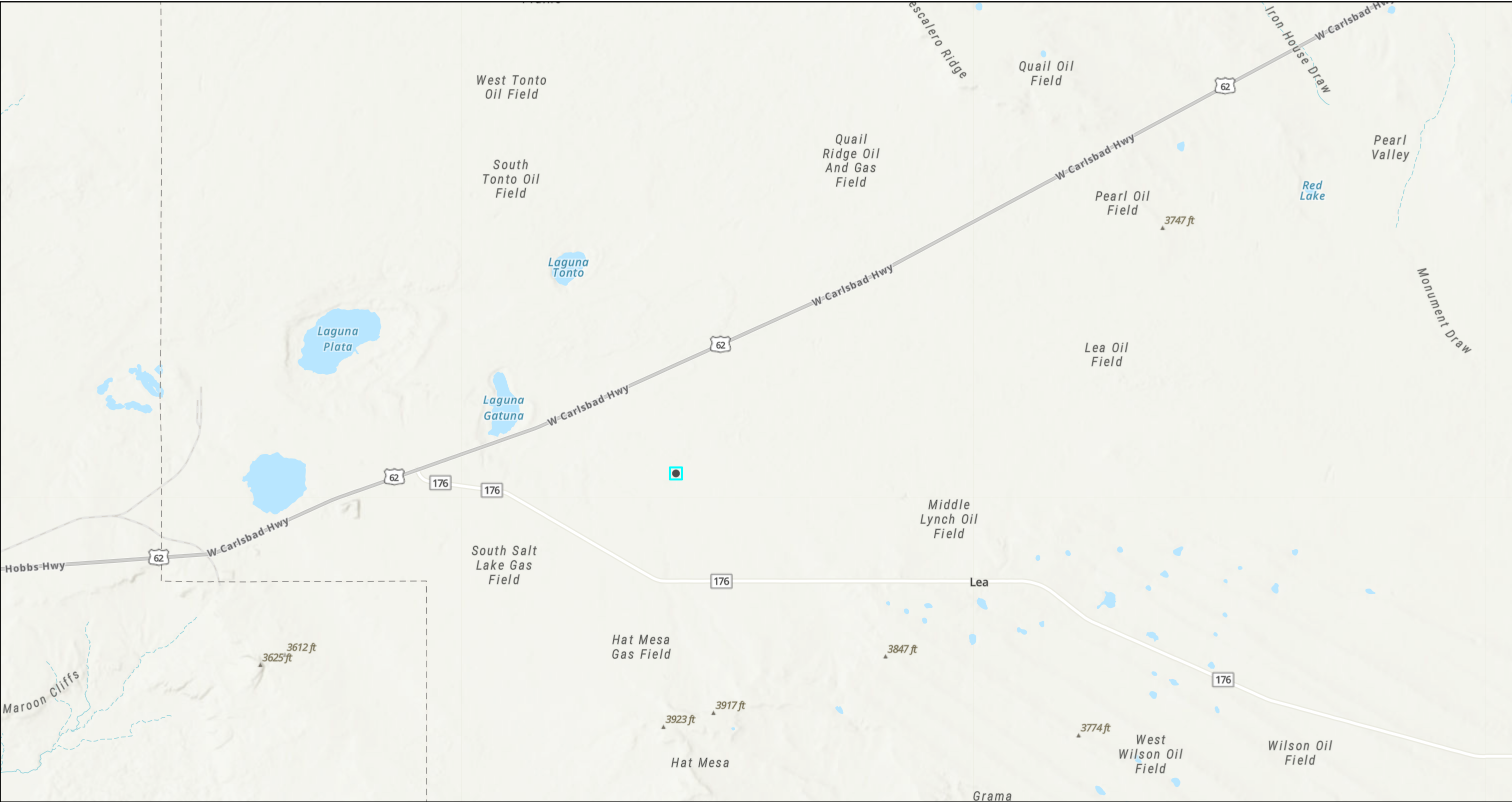
World\_Hillshade



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

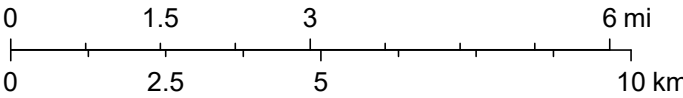


# Sandra Jean West CTB (02.26.2025)



4/3/2025, 10:11:48 AM

1:144,448



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



## APPENDIX E

CARMONA RESOURCES







Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/28/2025 7:14:09 PM

## JOB DESCRIPTION

Sandra Jean West (02.26.2025)  
2693

## JOB NUMBER

880-57313-1

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  
4/28/2025 7:14:09 PM

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



Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Laboratory Job ID: 880-57313-1  
SDG: 2693

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Definitions/Glossary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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



## Case Narrative

Client: Carmona Resources  
Project: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1

**Job ID: 880-57313-1**

**Eurofins Midland**

### Job Narrative 880-57313-1

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 4/24/2025 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C.

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0.1') (880-57313-1), S-1 (1.5') (880-57313-2), S-3 (0.1') (880-57313-9) and S-3 (1.5') (880-57313-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-3 (0.1') (880-57313-9). 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.

#### Diesel Range Organics

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-108603 and analytical batch 880-108764 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-3 (0.1') (880-57313-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-108603 and analytical batch 880-108764 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108603 and analytical batch 880-108764 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-108603/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0.1') (880-57313-1), S-1 (1.5') (880-57313-2), S-1 (2.0') (880-57313-3), S-1 (3.0') (880-57313-4), S-2 (0.1') (880-57313-5), S-2 (1.5') (880-57313-6), S-2 (2.0') (880-57313-7), S-2 (3.0') (880-57313-8), S-3 (1.5') (880-57313-10), S-3 (2.0') (880-57313-11), S-3 (3.0') (880-57313-12), S-3 (4.0') (880-57313-13), (880-57310-A-1-A), (880-57310-A-1-B MS) and (880-57310-A-1-C MSD). 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



## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Lab Sample ID: 880-57313-1

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0240		0.00200		mg/Kg		04/25/25 09:09	04/25/25 13:12	1
Toluene	0.366		0.00200		mg/Kg		04/25/25 09:09	04/25/25 13:12	1
Ethylbenzene	0.256		0.00200		mg/Kg		04/25/25 09:09	04/25/25 13:12	1
m-Xylene & p-Xylene	0.600		0.00399		mg/Kg		04/25/25 09:09	04/25/25 13:12	1
o-Xylene	0.282		0.00200		mg/Kg		04/25/25 09:09	04/25/25 13:12	1
Xylenes, Total	0.882		0.00399		mg/Kg		04/25/25 09:09	04/25/25 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	220	S1+	70 - 130	04/25/25 09:09	04/25/25 13:12	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/25/25 09:09	04/25/25 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.53		0.00399		mg/Kg			04/25/25 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3390		498		mg/Kg			04/27/25 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<498	U	498		mg/Kg		04/24/25 16:44	04/27/25 01:44	10
Diesel Range Organics (Over C10-C28)	3390	*1	498		mg/Kg		04/24/25 16:44	04/27/25 01:44	10
Oil Range Organics (Over C28-C36)	<498	U	498		mg/Kg		04/24/25 16:44	04/27/25 01:44	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	204	S1+	70 - 130	04/24/25 16:44	04/27/25 01:44	10
o-Terphenyl (Surr)	252	S1+	70 - 130	04/24/25 16:44	04/27/25 01:44	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		10.0		mg/Kg			04/25/25 15:40	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57313-2

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 13:33	1
Toluene	0.00313		0.00202		mg/Kg		04/25/25 09:09	04/25/25 13:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 13:33	1
m-Xylene & p-Xylene	0.00412		0.00404		mg/Kg		04/25/25 09:09	04/25/25 13:33	1
o-Xylene	0.00217		0.00202		mg/Kg		04/25/25 09:09	04/25/25 13:33	1
Xylenes, Total	0.00629		0.00404		mg/Kg		04/25/25 09:09	04/25/25 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	04/25/25 09:09	04/25/25 13:33	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/25/25 09:09	04/25/25 13:33	1

Eurofins Midland



## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-57313-2

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00942		0.00404		mg/Kg			04/25/25 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.4		50.0		mg/Kg			04/27/25 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 02:00	1
Diesel Range Organics (Over C10-C28)	53.4	*1	50.0		mg/Kg		04/24/25 16:44	04/27/25 02:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 02:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	211	S1+	70 - 130				04/24/25 16:44	04/27/25 02:00	1
o-Terphenyl (Surr)	207	S1+	70 - 130				04/24/25 16:44	04/27/25 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.8		10.1		mg/Kg			04/25/25 15:57	1

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-57313-3

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 13:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 13:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 13:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 13:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 13:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 13:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/25/25 09:09	04/25/25 13:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/25/25 09:09	04/25/25 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/25/25 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/27/25 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 02:16	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		04/24/25 16:44	04/27/25 02:16	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## Client Sample ID: S-1 (2.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	211	S1+	70 - 130				04/24/25 16:44	04/27/25 02:16	1
o-Terphenyl (Surr)	205	S1+	70 - 130				04/24/25 16:44	04/27/25 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.1		9.96		mg/Kg			04/25/25 16:02	1

## Client Sample ID: S-1 (3.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 14:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 14:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 14:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/25/25 09:09	04/25/25 14:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 14:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/25/25 09:09	04/25/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/25/25 09:09	04/25/25 14:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/25/25 09:09	04/25/25 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/25/25 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			04/27/25 02:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		04/24/25 16:44	04/27/25 02:32	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3		mg/Kg		04/24/25 16:44	04/27/25 02:32	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/24/25 16:44	04/27/25 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	213	S1+	70 - 130				04/24/25 16:44	04/27/25 02:32	1
o-Terphenyl (Surr)	209	S1+	70 - 130				04/24/25 16:44	04/27/25 02:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.6		10.0		mg/Kg			04/25/25 16:08	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Lab Sample ID: 880-57313-5

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 14:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 14:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 14:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/25/25 09:09	04/25/25 14:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 14:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/25/25 09:09	04/25/25 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/25/25 09:09	04/25/25 14:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/25/25 09:09	04/25/25 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/25/25 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	408		50.1		mg/Kg			04/27/25 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 02:49	1
Diesel Range Organics (Over C10-C28)	408	*1	50.1		mg/Kg		04/24/25 16:44	04/27/25 02:49	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	222	S1+	70 - 130	04/24/25 16:44	04/27/25 02:49	1
o-Terphenyl (Surr)	232	S1+	70 - 130	04/24/25 16:44	04/27/25 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		9.98		mg/Kg			04/25/25 16:14	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-57313-6

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 14:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 14:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 14:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/25/25 09:09	04/25/25 14:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 14:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/25/25 09:09	04/25/25 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/25/25 09:09	04/25/25 14:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/25/25 09:09	04/25/25 14:55	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-57313-6

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/25/25 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/27/25 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 03:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		04/24/25 16:44	04/27/25 03:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	206	S1+	70 - 130				04/24/25 16:44	04/27/25 03:04	1
o-Terphenyl (Surr)	199	S1+	70 - 130				04/24/25 16:44	04/27/25 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.8		10.0		mg/Kg			04/25/25 16:19	1

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-57313-7

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 16:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 16:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 16:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 16:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 16:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/25/25 09:09	04/25/25 16:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/25/25 09:09	04/25/25 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/25/25 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/27/25 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/24/25 16:44	04/27/25 03:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		04/24/25 16:44	04/27/25 03:37	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## Client Sample ID: S-2 (2.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/24/25 16:44	04/27/25 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	210	S1+	70 - 130				04/24/25 16:44	04/27/25 03:37	1
o-Terphenyl (Surr)	203	S1+	70 - 130				04/24/25 16:44	04/27/25 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.1		10.1		mg/Kg			04/25/25 16:25	1

## Client Sample ID: S-2 (3.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 16:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 16:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 16:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/25/25 09:09	04/25/25 16:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 16:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/25/25 09:09	04/25/25 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/25/25 09:09	04/25/25 16:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/25/25 09:09	04/25/25 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/25/25 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/27/25 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/24/25 16:44	04/27/25 03:53	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		04/24/25 16:44	04/27/25 03:53	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/24/25 16:44	04/27/25 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	217	S1+	70 - 130				04/24/25 16:44	04/27/25 03:53	1
o-Terphenyl (Surr)	209	S1+	70 - 130				04/24/25 16:44	04/27/25 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.0		9.98		mg/Kg			04/25/25 16:42	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Client Sample ID: S-3 (0.1')

Lab Sample ID: 880-57313-9

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00242		0.00200		mg/Kg		04/25/25 09:09	04/25/25 16:58	1
Toluene	0.257		0.00200		mg/Kg		04/25/25 09:09	04/25/25 16:58	1
Ethylbenzene	2.56		0.0398		mg/Kg		04/28/25 09:09	04/28/25 16:31	20
m-Xylene & p-Xylene	6.77		0.0797		mg/Kg		04/28/25 09:09	04/28/25 16:31	20
o-Xylene	3.22		0.0398		mg/Kg		04/28/25 09:09	04/28/25 16:31	20
Xylenes, Total	9.99		0.0797		mg/Kg		04/28/25 09:09	04/28/25 16:31	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	256	S1+	70 - 130	04/25/25 09:09	04/25/25 16:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/25/25 09:09	04/25/25 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.8		0.0797		mg/Kg			04/28/25 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6580		252		mg/Kg			04/27/25 04:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	984		252		mg/Kg		04/24/25 16:44	04/27/25 04:09	5
Diesel Range Organics (Over C10-C28)	5600	*1	252		mg/Kg		04/24/25 16:44	04/27/25 04:09	5
Oil Range Organics (Over C28-C36)	<252	U	252		mg/Kg		04/24/25 16:44	04/27/25 04:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	222	S1+	70 - 130	04/24/25 16:44	04/27/25 04:09	5
o-Terphenyl (Surr)	296	S1+	70 - 130	04/24/25 16:44	04/27/25 04:09	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		9.94		mg/Kg			04/25/25 16:47	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-57313-10

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:19	1
Toluene	0.00242		0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:19	1
Ethylbenzene	0.00806		0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:19	1
m-Xylene & p-Xylene	0.0260		0.00404		mg/Kg		04/25/25 09:09	04/25/25 17:19	1
o-Xylene	0.00562		0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:19	1
Xylenes, Total	0.0316		0.00404		mg/Kg		04/25/25 09:09	04/25/25 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	04/25/25 09:09	04/25/25 17:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/25/25 09:09	04/25/25 17:19	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-57313-10

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0421		0.00404		mg/Kg			04/25/25 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.6		50.1		mg/Kg			04/27/25 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 04:25	1
Diesel Range Organics (Over C10-C28)	74.6	*1	50.1		mg/Kg		04/24/25 16:44	04/27/25 04:25	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	215	S1+	70 - 130				04/24/25 16:44	04/27/25 04:25	1
o-Terphenyl (Surr)	212	S1+	70 - 130				04/24/25 16:44	04/27/25 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.5		9.94		mg/Kg			04/25/25 17:04	1

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-57313-11

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/25/25 09:09	04/25/25 17:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 17:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/25/25 09:09	04/25/25 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/25/25 09:09	04/25/25 17:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/25/25 09:09	04/25/25 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/25/25 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/27/25 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/24/25 16:44	04/27/25 04:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		04/24/25 16:44	04/27/25 04:41	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## Client Sample ID: S-3 (2.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/25 16:44	04/27/25 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	204	S1+	70 - 130				04/24/25 16:44	04/27/25 04:41	1
o-Terphenyl (Surr)	199	S1+	70 - 130				04/24/25 16:44	04/27/25 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.2		10.1		mg/Kg			04/25/25 17:10	1

## Client Sample ID: S-3 (3.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 18:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 18:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 18:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 18:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 18:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/25/25 09:09	04/25/25 18:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/25/25 09:09	04/25/25 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/25/25 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/27/25 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 04:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		04/24/25 16:44	04/27/25 04:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	209	S1+	70 - 130				04/24/25 16:44	04/27/25 04:57	1
o-Terphenyl (Surr)	204	S1+	70 - 130				04/24/25 16:44	04/27/25 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.6		10.0		mg/Kg			04/25/25 17:16	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Client Sample ID: S-3 (4.0')

Lab Sample ID: 880-57313-13

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 18:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 18:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 18:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/25/25 09:09	04/25/25 18:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/25/25 09:09	04/25/25 18:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/25/25 09:09	04/25/25 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/25/25 09:09	04/25/25 18:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/25/25 09:09	04/25/25 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/25/25 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/27/25 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 05:14	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		04/24/25 16:44	04/27/25 05:14	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	202	S1+	70 - 130	04/24/25 16:44	04/27/25 05:14	1
o-Terphenyl (Surr)	196	S1+	70 - 130	04/24/25 16:44	04/27/25 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.3		10.1		mg/Kg			04/25/25 17:21	1

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# Surrogate Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-57310-A-1-D MS	Matrix Spike	104	105
880-57310-A-1-E MSD	Matrix Spike Duplicate	107	104
880-57313-1	S-1 (0-1')	220 S1+	110
880-57313-2	S-1 (1.5')	154 S1+	104
880-57313-3	S-1 (2.0')	103	97
880-57313-4	S-1 (3.0')	105	96
880-57313-5	S-2 (0-1')	109	94
880-57313-6	S-2 (1.5')	104	97
880-57313-7	S-2 (2.0')	103	94
880-57313-8	S-2 (3.0')	105	95
880-57313-9	S-3 (0.1')	256 S1+	101
880-57313-10	S-3 (1.5')	167 S1+	103
880-57313-11	S-3 (2.0')	109	96
880-57313-12	S-3 (3.0')	107	99
880-57313-13	S-3 (4.0')	107	96
880-57377-A-1-B MS	Matrix Spike	102	106
880-57377-A-1-C MSD	Matrix Spike Duplicate	102	106
LCS 880-108657/1-A	Lab Control Sample	107	101
LCS 880-108797/1-A	Lab Control Sample	109	104
LCSD 880-108657/2-A	Lab Control Sample Dup	105	103
LCSD 880-108797/2-A	Lab Control Sample Dup	110	101
MB 880-108657/5-A	Method Blank	101	89
MB 880-108797/5-A	Method Blank	98	86
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-57310-A-1-B MS	Matrix Spike	199 S1+	211 S1+
880-57310-A-1-C MSD	Matrix Spike Duplicate	226 S1+	209 S1+
880-57313-1	S-1 (0-1')	204 S1+	252 S1+
880-57313-2	S-1 (1.5')	211 S1+	207 S1+
880-57313-3	S-1 (2.0')	211 S1+	205 S1+
880-57313-4	S-1 (3.0')	213 S1+	209 S1+
880-57313-5	S-2 (0-1')	222 S1+	232 S1+
880-57313-6	S-2 (1.5')	206 S1+	199 S1+
880-57313-7	S-2 (2.0')	210 S1+	203 S1+
880-57313-8	S-2 (3.0')	217 S1+	209 S1+
880-57313-9	S-3 (0.1')	222 S1+	296 S1+
880-57313-10	S-3 (1.5')	215 S1+	212 S1+
880-57313-11	S-3 (2.0')	204 S1+	199 S1+
880-57313-12	S-3 (3.0')	209 S1+	204 S1+
880-57313-13	S-3 (4.0')	202 S1+	196 S1+
LCS 880-108603/2-A	Lab Control Sample	131 S1+	122

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Surrogate Summary

Client: Carmona Resources

Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1

SDG: 2693

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCSD 880-108603/3-A	Lab Control Sample Dup	106	96
MB 880-108603/1-A	Method Blank	230 S1+	233 S1+
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			



## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Lab Sample ID: MB 880-108657/5-A

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/25/25 09:09	04/25/25 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/25/25 09:09	04/25/25 11:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/25/25 09:09	04/25/25 11:29	1

Lab Sample ID: LCS 880-108657/1-A

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09662		mg/Kg		97	70 - 130
Toluene	0.100	0.08786		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09619		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1942		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09914		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-108657/2-A

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1002		mg/Kg		100	70 - 130	4	35
Toluene	0.100	0.08883		mg/Kg		89	70 - 130	1	35
Ethylbenzene	0.100	0.09796		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	3	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-57310-A-1-D MS

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09951		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.100	0.08771		mg/Kg		88	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Lab Sample ID: 880-57310-A-1-D MS

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09417		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1906		mg/Kg		95	70 - 130
o-Xylene	<0.00200	U	0.100	0.09745		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-57310-A-1-E MSD

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09892		mg/Kg		99	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.08720		mg/Kg		87	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09346		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1907		mg/Kg		95	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.09780		mg/Kg		98	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-108797/5-A

Matrix: Solid

Analysis Batch: 108783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/25 09:09	04/28/25 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/25 09:09	04/28/25 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/25 09:09	04/28/25 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/25 09:09	04/28/25 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/25 09:09	04/28/25 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/25 09:09	04/28/25 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/28/25 09:09	04/28/25 11:20	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/28/25 09:09	04/28/25 11:20	1

Lab Sample ID: LCS 880-108797/1-A

Matrix: Solid

Analysis Batch: 108783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1064		mg/Kg		106	70 - 130
Toluene	0.100	0.09533		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2146		mg/Kg		107	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Lab Sample ID: LCS 880-108797/1-A

Matrix: Solid

Analysis Batch: 108783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-108797/2-A

Matrix: Solid

Analysis Batch: 108783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108797

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.09646		mg/Kg		96	70 - 130	1	35
Ethylbenzene	0.100	0.1066		mg/Kg		107	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130	3	35
o-Xylene	0.100	0.1119		mg/Kg		112	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-57377-A-1-B MS

Matrix: Solid

Analysis Batch: 108783

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108797

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08461		mg/Kg		85	70 - 130
Toluene	<0.00200	U F1	0.100	0.06389	F1	mg/Kg		64	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.05862	F1	mg/Kg		59	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1159	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.05679	F1	mg/Kg		57	70 - 130

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

Lab Sample ID: 880-57377-A-1-C MSD

Matrix: Solid

Analysis Batch: 108783

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108797

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08142		mg/Kg		81	70 - 130	4	35
Toluene	<0.00200	U F1	0.100	0.05592	F1	mg/Kg		56	70 - 130	13	35
Ethylbenzene	<0.00200	U F1	0.100	0.04489	F1	mg/Kg		45	70 - 130	27	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08723	F1	mg/Kg		44	70 - 130	28	35
o-Xylene	<0.00200	U F1	0.100	0.04334	F1	mg/Kg		43	70 - 130	27	35

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Lab Sample ID: 880-57377-A-1-C MSD

Matrix: Solid

Analysis Batch: 108783

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108797

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

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

Lab Sample ID: MB 880-108603/1-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108603

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/25 16:43	04/26/25 23:15	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/25 16:43	04/26/25 23:15	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/25 16:43	04/26/25 23:15	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	230	S1+	70 - 130				04/24/25 16:43	04/26/25 23:15	1	
o-Terphenyl (Surr)	233	S1+	70 - 130				04/24/25 16:43	04/26/25 23:15	1	

Lab Sample ID: LCS 880-108603/2-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108603

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	992.1		mg/Kg		99		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1118		mg/Kg		112		70 - 130		
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)		131	S1+	70 - 130						
o-Terphenyl (Surr)		122		70 - 130						

Lab Sample ID: LCSD 880-108603/3-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108603

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	817.3		mg/Kg		82		70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	902.7	*1	mg/Kg		90		70 - 130	21	20
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)		106		70 - 130						
o-Terphenyl (Surr)		96		70 - 130						

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Lab Sample ID: 880-57310-A-1-B MS

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 108603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1054		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U *1 F1	1010	1351	F1	mg/Kg		134	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	199	S1+	70 - 130						
o-Terphenyl (Surr)	211	S1+	70 - 130						

Lab Sample ID: 880-57310-A-1-C MSD

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 108603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1088		mg/Kg		108	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.1	U *1 F1	1010	1299		mg/Kg		129	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	226	S1+	70 - 130								
o-Terphenyl (Surr)	209	S1+	70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108659/1-A

Matrix: Solid

Analysis Batch: 108668

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/25/25 14:49	1

Lab Sample ID: LCS 880-108659/2-A

Matrix: Solid

Analysis Batch: 108668

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-108659/3-A

Matrix: Solid

Analysis Batch: 108668

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.5		mg/Kg		98	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-57313-7 MS										Client Sample ID: S-2 (2.0')			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 108668													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	86.1		252	357.9		mg/Kg		108	90 - 110				

Lab Sample ID: 880-57313-7 MSD										Client Sample ID: S-2 (2.0')			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 108668													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	86.1		252	359.2		mg/Kg		109	90 - 110	0	20		



## QC Association Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## GC VOA

## Analysis Batch: 108641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Total/NA	Solid	8021B	108657
880-57313-2	S-1 (1.5')	Total/NA	Solid	8021B	108657
880-57313-3	S-1 (2.0')	Total/NA	Solid	8021B	108657
880-57313-4	S-1 (3.0')	Total/NA	Solid	8021B	108657
880-57313-5	S-2 (0-1')	Total/NA	Solid	8021B	108657
880-57313-6	S-2 (1.5')	Total/NA	Solid	8021B	108657
880-57313-7	S-2 (2.0')	Total/NA	Solid	8021B	108657
880-57313-8	S-2 (3.0')	Total/NA	Solid	8021B	108657
880-57313-9	S-3 (0.1')	Total/NA	Solid	8021B	108657
880-57313-10	S-3 (1.5')	Total/NA	Solid	8021B	108657
880-57313-11	S-3 (2.0')	Total/NA	Solid	8021B	108657
880-57313-12	S-3 (3.0')	Total/NA	Solid	8021B	108657
880-57313-13	S-3 (4.0')	Total/NA	Solid	8021B	108657
MB 880-108657/5-A	Method Blank	Total/NA	Solid	8021B	108657
LCS 880-108657/1-A	Lab Control Sample	Total/NA	Solid	8021B	108657
LCSD 880-108657/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108657
880-57310-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	108657
880-57310-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108657

## Prep Batch: 108657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Total/NA	Solid	5035	
880-57313-2	S-1 (1.5')	Total/NA	Solid	5035	
880-57313-3	S-1 (2.0')	Total/NA	Solid	5035	
880-57313-4	S-1 (3.0')	Total/NA	Solid	5035	
880-57313-5	S-2 (0-1')	Total/NA	Solid	5035	
880-57313-6	S-2 (1.5')	Total/NA	Solid	5035	
880-57313-7	S-2 (2.0')	Total/NA	Solid	5035	
880-57313-8	S-2 (3.0')	Total/NA	Solid	5035	
880-57313-9	S-3 (0.1')	Total/NA	Solid	5035	
880-57313-10	S-3 (1.5')	Total/NA	Solid	5035	
880-57313-11	S-3 (2.0')	Total/NA	Solid	5035	
880-57313-12	S-3 (3.0')	Total/NA	Solid	5035	
880-57313-13	S-3 (4.0')	Total/NA	Solid	5035	
MB 880-108657/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108657/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108657/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57310-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-57310-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 108753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-57313-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-57313-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-57313-4	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-57313-5	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-57313-6	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-57313-7	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-57313-8	S-2 (3.0')	Total/NA	Solid	Total BTEX	
880-57313-9	S-3 (0.1')	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## GC VOA (Continued)

## Analysis Batch: 108753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-10	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-57313-11	S-3 (2.0')	Total/NA	Solid	Total BTEX	
880-57313-12	S-3 (3.0')	Total/NA	Solid	Total BTEX	
880-57313-13	S-3 (4.0')	Total/NA	Solid	Total BTEX	

## Analysis Batch: 108783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-9	S-3 (0.1')	Total/NA	Solid	8021B	108797
MB 880-108797/5-A	Method Blank	Total/NA	Solid	8021B	108797
LCS 880-108797/1-A	Lab Control Sample	Total/NA	Solid	8021B	108797
LCSD 880-108797/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108797
880-57377-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	108797
880-57377-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108797

## Prep Batch: 108797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-9	S-3 (0.1')	Total/NA	Solid	5035	
MB 880-108797/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108797/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108797/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57377-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-57377-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## GC Semi VOA

## Prep Batch: 108603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-57313-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-57313-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-57313-4	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-57313-5	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-57313-6	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-57313-7	S-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-57313-8	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-57313-9	S-3 (0.1')	Total/NA	Solid	8015NM Prep	
880-57313-10	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-57313-11	S-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-57313-12	S-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-57313-13	S-3 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-108603/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108603/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57310-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57310-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 108764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Total/NA	Solid	8015B NM	108603
880-57313-2	S-1 (1.5')	Total/NA	Solid	8015B NM	108603
880-57313-3	S-1 (2.0')	Total/NA	Solid	8015B NM	108603

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## GC Semi VOA (Continued)

## Analysis Batch: 108764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-4	S-1 (3.0')	Total/NA	Solid	8015B NM	108603
880-57313-5	S-2 (0-1')	Total/NA	Solid	8015B NM	108603
880-57313-6	S-2 (1.5')	Total/NA	Solid	8015B NM	108603
880-57313-7	S-2 (2.0')	Total/NA	Solid	8015B NM	108603
880-57313-8	S-2 (3.0')	Total/NA	Solid	8015B NM	108603
880-57313-9	S-3 (0.1')	Total/NA	Solid	8015B NM	108603
880-57313-10	S-3 (1.5')	Total/NA	Solid	8015B NM	108603
880-57313-11	S-3 (2.0')	Total/NA	Solid	8015B NM	108603
880-57313-12	S-3 (3.0')	Total/NA	Solid	8015B NM	108603
880-57313-13	S-3 (4.0')	Total/NA	Solid	8015B NM	108603
MB 880-108603/1-A	Method Blank	Total/NA	Solid	8015B NM	108603
LCS 880-108603/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108603
LCSD 880-108603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108603
880-57310-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	108603
880-57310-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	108603

## Analysis Batch: 108854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-57313-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-57313-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-57313-4	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-57313-5	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-57313-6	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-57313-7	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-57313-8	S-2 (3.0')	Total/NA	Solid	8015 NM	
880-57313-9	S-3 (0.1')	Total/NA	Solid	8015 NM	
880-57313-10	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-57313-11	S-3 (2.0')	Total/NA	Solid	8015 NM	
880-57313-12	S-3 (3.0')	Total/NA	Solid	8015 NM	
880-57313-13	S-3 (4.0')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 108659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-57313-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-57313-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-57313-4	S-1 (3.0')	Soluble	Solid	DI Leach	
880-57313-5	S-2 (0-1')	Soluble	Solid	DI Leach	
880-57313-6	S-2 (1.5')	Soluble	Solid	DI Leach	
880-57313-7	S-2 (2.0')	Soluble	Solid	DI Leach	
880-57313-8	S-2 (3.0')	Soluble	Solid	DI Leach	
880-57313-9	S-3 (0.1')	Soluble	Solid	DI Leach	
880-57313-10	S-3 (1.5')	Soluble	Solid	DI Leach	
880-57313-11	S-3 (2.0')	Soluble	Solid	DI Leach	
880-57313-12	S-3 (3.0')	Soluble	Solid	DI Leach	
880-57313-13	S-3 (4.0')	Soluble	Solid	DI Leach	
MB 880-108659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## HPLC/IC (Continued)

## Leach Batch: 108659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-108659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57313-7 MS	S-2 (2.0')	Soluble	Solid	DI Leach	
880-57313-7 MSD	S-2 (2.0')	Soluble	Solid	DI Leach	

## Analysis Batch: 108668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57313-1	S-1 (0-1')	Soluble	Solid	300.0	108659
880-57313-2	S-1 (1.5')	Soluble	Solid	300.0	108659
880-57313-3	S-1 (2.0')	Soluble	Solid	300.0	108659
880-57313-4	S-1 (3.0')	Soluble	Solid	300.0	108659
880-57313-5	S-2 (0-1')	Soluble	Solid	300.0	108659
880-57313-6	S-2 (1.5')	Soluble	Solid	300.0	108659
880-57313-7	S-2 (2.0')	Soluble	Solid	300.0	108659
880-57313-8	S-2 (3.0')	Soluble	Solid	300.0	108659
880-57313-9	S-3 (0.1')	Soluble	Solid	300.0	108659
880-57313-10	S-3 (1.5')	Soluble	Solid	300.0	108659
880-57313-11	S-3 (2.0')	Soluble	Solid	300.0	108659
880-57313-12	S-3 (3.0')	Soluble	Solid	300.0	108659
880-57313-13	S-3 (4.0')	Soluble	Solid	300.0	108659
MB 880-108659/1-A	Method Blank	Soluble	Solid	300.0	108659
LCS 880-108659/2-A	Lab Control Sample	Soluble	Solid	300.0	108659
LCSD 880-108659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108659
880-57313-7 MS	S-2 (2.0')	Soluble	Solid	300.0	108659
880-57313-7 MSD	S-2 (2.0')	Soluble	Solid	300.0	108659



## Lab Chronicle

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

**Client Sample ID: S-1 (0-1')****Lab Sample ID: 880-57313-1****Date Collected: 04/24/25 00:00****Matrix: Solid****Date Received: 04/24/25 14:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 13:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 13:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 01:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	108764	04/27/25 01:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 15:40	CH	EET MID

**Client Sample ID: S-1 (1.5')****Lab Sample ID: 880-57313-2****Date Collected: 04/24/25 00:00****Matrix: Solid****Date Received: 04/24/25 14:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 13:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 13:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 02:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 02:00	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 15:57	CH	EET MID

**Client Sample ID: S-1 (2.0')****Lab Sample ID: 880-57313-3****Date Collected: 04/24/25 00:00****Matrix: Solid****Date Received: 04/24/25 14:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 13:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 13:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 02:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 02:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 16:02	CH	EET MID

**Client Sample ID: S-1 (3.0')****Lab Sample ID: 880-57313-4****Date Collected: 04/24/25 00:00****Matrix: Solid****Date Received: 04/24/25 14:36**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 14:14	SM	EET MID

Eurofins Midland



## Lab Chronicle

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## Client Sample ID: S-1 (3.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			108854	04/27/25 02:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 02:32	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 16:08	CH	EET MID

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

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 14:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 14:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 02:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 02:49	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 16:14	CH	EET MID

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

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 14:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 03:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 03:04	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 16:19	CH	EET MID

## Client Sample ID: S-2 (2.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 16:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 16:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 03:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 03:37	TKC	EET MID

Eurofins Midland



## Lab Chronicle

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## Client Sample ID: S-2 (2.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 16:25	CH	EET MID

## Client Sample ID: S-2 (3.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 16:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 03:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 03:53	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 16:42	CH	EET MID

## Client Sample ID: S-3 (0.1')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 16:58	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	108797	04/28/25 09:09	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	108783	04/28/25 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/28/25 16:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 04:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	108764	04/27/25 04:09	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 16:47	CH	EET MID

## Client Sample ID: S-3 (1.5')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 17:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 04:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 04:25	TKC	EET MID

Eurofins Midland



## Lab Chronicle

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

## Client Sample ID: S-3 (1.5')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 17:04	CH	EET MID

## Client Sample ID: S-3 (2.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 17:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 04:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 04:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 17:10	CH	EET MID

## Client Sample ID: S-3 (3.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 04:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 04:57	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 17:16	CH	EET MID

## Client Sample ID: S-3 (4.0')

Date Collected: 04/24/25 00:00

Date Received: 04/24/25 14:36

## Lab Sample ID: 880-57313-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108753	04/25/25 18:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			108854	04/27/25 05:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 05:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 17:21	CH	EET MID

Eurofins Midland



Lab Chronicle

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

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Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57313-1  
SDG: 2693

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57313-1	S-1 (0-1')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-2	S-1 (1.5')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-3	S-1 (2.0')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-4	S-1 (3.0')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-5	S-2 (0-1')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-6	S-2 (1.5')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-7	S-2 (2.0')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-8	S-2 (3.0')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-9	S-3 (0.1')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-10	S-3 (1.5')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-11	S-3 (2.0')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-12	S-3 (3.0')	Solid	04/24/25 00:00	04/24/25 14:36
880-57313-13	S-3 (4.0')	Solid	04/24/25 00:00	04/24/25 14:36

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## Chain of Custody



880-57313 Chain of Custody

Page 1 of 2

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Sandra Jean West (02.26.2025)		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:	2693	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Due Date:	48 hr.		Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold																	None: NO
Project Location	Lea County, New Mexico																					Cool: Cool	MeOH: Me					
Sampler's Name:	GPJ																					HCL: HC	HNO <sub>3</sub> : HN					
PO #:																						H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na					
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																							H <sub>3</sub> PO <sub>4</sub> : HP
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																					NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:																					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:																					Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:																					NaOH+Ascorbic Acid: SAPC					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments					
S-1 (0-1')	4/24/2025		X		G	1	X	X	X																			
S-1 (1.5')	4/24/2025		X		G	1	X	X	X																			
S-1 (2.0')	4/24/2025		X		G	1	X	X	X																			
S-1 (3.0')	4/24/2025		X		G	1	X	X	X																			
S-2 (0-1')	4/24/2025		X		G	1	X	X	X																			
S-2 (1.5')	4/24/2025		X		G	1	X	X	X																			
S-2 (2.0')	4/24/2025		X		G	1	X	X	X																			
S-2 (3.0')	4/24/2025		X		G	1	X	X	X																			
S-3 (0-1')	4/24/2025		X		G	1	X	X	X																			
S-3 (1.5')	4/24/2025		X		G	1	X	X	X																			

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			4/24/25 1435



## Chain of Custody

Work Order No: 573/3



Page 2 of 2

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

Work Order Comments					
<b>Program:</b> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>					
<b>State of Project:</b>					
<b>Reporting:</b> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>					
<b>Deliverables:</b> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:					

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			4/24/25 1430



## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-57313-1

SDG Number: 2693

Login Number: 57313

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 4/28/2025 12:16:08 PM

## JOB DESCRIPTION

Sandra Jean West (02.26.2025)  
2693

## JOB NUMBER

880-57310-1

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  
4/28/2025 12:16:08 PM

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



Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Laboratory Job ID: 880-57310-1  
SDG: 2693

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## Definitions/Glossary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



## Case Narrative

Client: Carmona Resources  
Project: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1

**Job ID: 880-57310-1**

**Eurofins Midland**

### Job Narrative 880-57310-1

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 4/24/2025 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°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: The surrogate recovery for the blank associated with preparation batch 880-108603 and analytical batch 880-108764 was outside the upper control limits.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-108603 and analytical batch 880-108764 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108603 and analytical batch 880-108764 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-108603/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-57310-1), H-2 (0-0.5') (880-57310-2), H-3 (0-0.5') (880-57310-3), H-4 (0-0.5') (880-57310-4), (880-57310-A-1-B MS) and (880-57310-A-1-C MSD). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: 880-57310-1

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/25/25 09:09	04/25/25 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/25/25 09:09	04/25/25 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/25/25 09:09	04/25/25 11:50	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/25/25 09:09	04/25/25 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/25/25 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/27/25 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 00:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1 F1	50.1		mg/Kg		04/24/25 16:44	04/27/25 00:08	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/24/25 16:44	04/27/25 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	221	S1+	70 - 130	04/24/25 16:44	04/27/25 00:08	1
o-Terphenyl (Surr)	212	S1+	70 - 130	04/24/25 16:44	04/27/25 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.1		9.98		mg/Kg			04/25/25 15:06	1

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

Lab Sample ID: 880-57310-2

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 12:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 12:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 12:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/25/25 09:09	04/25/25 12:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/25/25 09:09	04/25/25 12:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/25/25 09:09	04/25/25 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/25/25 09:09	04/25/25 12:11	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/25/25 09:09	04/25/25 12:11	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: 880-57310-2

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/25/25 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/27/25 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		04/24/25 16:44	04/27/25 00:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/25 16:44	04/27/25 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	223	S1+	70 - 130				04/24/25 16:44	04/27/25 00:57	1
o-Terphenyl (Surr)	220	S1+	70 - 130				04/24/25 16:44	04/27/25 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		9.92		mg/Kg			04/25/25 15:23	1

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

Lab Sample ID: 880-57310-3

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 12:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 12:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 12:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/25/25 09:09	04/25/25 12:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/25/25 09:09	04/25/25 12:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/25/25 09:09	04/25/25 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/25/25 09:09	04/25/25 12:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/25/25 09:09	04/25/25 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/25/25 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/27/25 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/24/25 16:44	04/27/25 01:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		04/24/25 16:44	04/27/25 01:12	1

Eurofins Midland



## Client Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: 880-57310-3

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/24/25 16:44	04/27/25 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	217	S1+	70 - 130				04/24/25 16:44	04/27/25 01:12	1
o-Terphenyl (Surr)	212	S1+	70 - 130				04/24/25 16:44	04/27/25 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.3		10.0		mg/Kg			04/25/25 15:28	1

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

Lab Sample ID: 880-57310-4

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 12:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 12:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 12:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 12:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/25/25 09:09	04/25/25 12:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/25/25 09:09	04/25/25 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/25/25 09:09	04/25/25 12:52	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/25/25 09:09	04/25/25 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/25/25 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/27/25 01:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/24/25 16:44	04/27/25 01:29	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		04/24/25 16:44	04/27/25 01:29	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/24/25 16:44	04/27/25 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	221	S1+	70 - 130				04/24/25 16:44	04/27/25 01:29	1
o-Terphenyl (Surr)	214	S1+	70 - 130				04/24/25 16:44	04/27/25 01:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.8		9.94		mg/Kg			04/25/25 15:34	1

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## Surrogate Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-57310-1	H-1 (0-0.5')	104	98
880-57310-1 MS	H-1 (0-0.5')	104	105
880-57310-1 MSD	H-1 (0-0.5')	107	104
880-57310-2	H-2 (0-0.5')	107	93
880-57310-3	H-3 (0-0.5')	106	93
880-57310-4	H-4 (0-0.5')	107	97
LCS 880-108657/1-A	Lab Control Sample	107	101
LCSD 880-108657/2-A	Lab Control Sample Dup	105	103
MB 880-108657/5-A	Method Blank	101	89
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-57310-1	H-1 (0-0.5')	221 S1+	212 S1+
880-57310-1 MS	H-1 (0-0.5')	199 S1+	211 S1+
880-57310-1 MSD	H-1 (0-0.5')	226 S1+	209 S1+
880-57310-2	H-2 (0-0.5')	223 S1+	220 S1+
880-57310-3	H-3 (0-0.5')	217 S1+	212 S1+
880-57310-4	H-4 (0-0.5')	221 S1+	214 S1+
LCS 880-108603/2-A	Lab Control Sample	131 S1+	122
LCSD 880-108603/3-A	Lab Control Sample Dup	106	96
MB 880-108603/1-A	Method Blank	230 S1+	233 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			



## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: MB 880-108657/5-A

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/25 09:09	04/25/25 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/25/25 09:09	04/25/25 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/25/25 09:09	04/25/25 11:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/25/25 09:09	04/25/25 11:29	1

Lab Sample ID: LCS 880-108657/1-A

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09662		mg/Kg		97	70 - 130
Toluene	0.100	0.08786		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09619		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1942		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09914		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-108657/2-A

Matrix: Solid

Analysis Batch: 108641

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1002		mg/Kg		100	70 - 130	4	35
Toluene	0.100	0.08883		mg/Kg		89	70 - 130	1	35
Ethylbenzene	0.100	0.09796		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	3	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-57310-1 MS

Matrix: Solid

Analysis Batch: 108641

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

Prep Type: Total/NA

Prep Batch: 108657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09951		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.100	0.08771		mg/Kg		88	70 - 130

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QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: 880-57310-1 MS  
Matrix: Solid  
Analysis Batch: 108641

Client Sample ID: H-1 (0-0.5')  
Prep Type: Total/NA  
Prep Batch: 108657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09417		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1906		mg/Kg		95	70 - 130
o-Xylene	<0.00200	U	0.100	0.09745		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: 880-57310-1 MSD  
Matrix: Solid  
Analysis Batch: 108641

Client Sample ID: H-1 (0-0.5')  
Prep Type: Total/NA  
Prep Batch: 108657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09892		mg/Kg		99	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.08720		mg/Kg		87	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09346		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1907		mg/Kg		95	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.09780		mg/Kg		98	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	107		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-108603/1-A  
Matrix: Solid  
Analysis Batch: 108764

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 108603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/25 16:43	04/26/25 23:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/25 16:43	04/26/25 23:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/25 16:43	04/26/25 23:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane (Surr)	230	S1+	70 - 130						
o-Terphenyl (Surr)	233	S1+	70 - 130						

Lab Sample ID: LCS 880-108603/2-A  
Matrix: Solid  
Analysis Batch: 108764

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 108603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	992.1		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1118		mg/Kg		112	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: LCS 880-108603/2-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108603

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	131	S1+	70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-108603/3-A

Matrix: Solid

Analysis Batch: 108764

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108603

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	817.3		mg/Kg		82	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	902.7	*1	mg/Kg		90	70 - 130	21	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: 880-57310-1 MS

Matrix: Solid

Analysis Batch: 108764

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

Prep Type: Total/NA

Prep Batch: 108603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1054		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U *1 F1	1010	1351	F1	mg/Kg		134	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	199	S1+	70 - 130
o-Terphenyl (Surr)	211	S1+	70 - 130

Lab Sample ID: 880-57310-1 MSD

Matrix: Solid

Analysis Batch: 108764

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

Prep Type: Total/NA

Prep Batch: 108603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1088		mg/Kg		108	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.1	U *1 F1	1010	1299		mg/Kg		129	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	226	S1+	70 - 130
o-Terphenyl (Surr)	209	S1+	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108659/1-A

Matrix: Solid

Analysis Batch: 108668

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/25/25 14:49	1

Lab Sample ID: LCS 880-108659/2-A

Matrix: Solid

Analysis Batch: 108668

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-108659/3-A

Matrix: Solid

Analysis Batch: 108668

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.5		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-57310-1 MS

Matrix: Solid

Analysis Batch: 108668

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	95.1		250	364.7		mg/Kg		108	90 - 110

Lab Sample ID: 880-57310-1 MSD

Matrix: Solid

Analysis Batch: 108668

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	95.1		250	365.7		mg/Kg		108	90 - 110	0	20



## QC Association Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

## GC VOA

## Analysis Batch: 108641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Total/NA	Solid	8021B	108657
880-57310-2	H-2 (0-0.5')	Total/NA	Solid	8021B	108657
880-57310-3	H-3 (0-0.5')	Total/NA	Solid	8021B	108657
880-57310-4	H-4 (0-0.5')	Total/NA	Solid	8021B	108657
MB 880-108657/5-A	Method Blank	Total/NA	Solid	8021B	108657
LCS 880-108657/1-A	Lab Control Sample	Total/NA	Solid	8021B	108657
LCSD 880-108657/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108657
880-57310-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	108657
880-57310-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	108657

## Prep Batch: 108657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-57310-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-57310-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-57310-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-108657/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108657/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108657/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57310-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-57310-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

## Analysis Batch: 108752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57310-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57310-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-57310-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 108603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57310-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57310-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57310-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-108603/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108603/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57310-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-57310-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 108764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	108603
880-57310-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	108603
880-57310-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	108603
880-57310-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	108603
MB 880-108603/1-A	Method Blank	Total/NA	Solid	8015B NM	108603
LCS 880-108603/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108603

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## QC Association Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

## GC Semi VOA (Continued)

## Analysis Batch: 108764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-108603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108603
880-57310-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	108603
880-57310-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	108603

## Analysis Batch: 108853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-57310-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-57310-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-57310-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 108659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-57310-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-57310-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-57310-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-108659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57310-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-57310-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 108668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57310-1	H-1 (0-0.5')	Soluble	Solid	300.0	108659
880-57310-2	H-2 (0-0.5')	Soluble	Solid	300.0	108659
880-57310-3	H-3 (0-0.5')	Soluble	Solid	300.0	108659
880-57310-4	H-4 (0-0.5')	Soluble	Solid	300.0	108659
MB 880-108659/1-A	Method Blank	Soluble	Solid	300.0	108659
LCS 880-108659/2-A	Lab Control Sample	Soluble	Solid	300.0	108659
LCSD 880-108659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108659
880-57310-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	108659
880-57310-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	108659



Lab Chronicle

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: 880-57310-1

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 11:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108752	04/25/25 11:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			108853	04/27/25 00:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 00:08	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 15:06	CH	EET MID

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

Lab Sample ID: 880-57310-2

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108752	04/25/25 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			108853	04/27/25 00:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 00:57	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 15:23	CH	EET MID

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

Lab Sample ID: 880-57310-3

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 12:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108752	04/25/25 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			108853	04/27/25 01:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 01:12	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 15:28	CH	EET MID

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

Lab Sample ID: 880-57310-4

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	108657	04/25/25 09:09	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108641	04/25/25 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108752	04/25/25 12:52	SM	EET MID

Eurofins Midland



Lab Chronicle

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Lab Sample ID: 880-57310-4

Date Collected: 04/24/25 00:00

Matrix: Solid

Date Received: 04/24/25 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			108853	04/27/25 01:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	108603	04/24/25 16:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108764	04/27/25 01:29	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	108659	04/25/25 09:25	SMC	EET MID
Soluble	Analysis	300.0		1			108668	04/25/25 15:34	CH	EET MID

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



Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Carmona Resources  
Project/Site: Sandra Jean West (02.26.2025)

Job ID: 880-57310-1  
SDG: 2693

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57310-1	H-1 (0-0.5')	Solid	04/24/25 00:00	04/24/25 14:36
880-57310-2	H-2 (0-0.5')	Solid	04/24/25 00:00	04/24/25 14:36
880-57310-3	H-3 (0-0.5')	Solid	04/24/25 00:00	04/24/25 14:36
880-57310-4	H-4 (0-0.5')	Solid	04/24/25 00:00	04/24/25 14:36

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



## Chain of Custody

## World



880-57310 Chain of Custody



4/28/2025

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

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

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			4/14/20 1430

Page 21 of 22



## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-57310-1

SDG Number: 2693

Login Number: 57310

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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





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

June 02, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: SANDRA JEAN WEST (02.26.2025)

Enclosed are the results of analyses for samples received by the laboratory on 05/29/25 16:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 1 (1.5') (H253231-01)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEx	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 2 (1.5') (H253231-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
<b>DRO &gt;C10-C28*</b>	<b>32.1</b>	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 3 (1.5') (H253231-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 4 (1.5') (H253231-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
<b>DRO &gt;C10-C28*</b>	<b>14.0</b>	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 5 (1.5') (H253231-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 6 (1.5') (H253231-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 7 (1.5') (H253231-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 8 (1.5') (H253231-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389	
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159	
Total BTEX	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
<b>DRO &gt;C10-C28*</b>	<b>12.1</b>	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 9 (1.5') (H253231-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 10 (1.5') (H253231-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 11 (1.5') (H253231-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 12 (1.5') (H253231-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 13 (1.5') (H253231-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389	
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159	
Total BTEX	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	181	90.4	200	2.92	
<b>DRO &gt;C10-C28*</b>	<b>12.7</b>	10.0	05/30/2025	ND	199	99.7	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 14 (1.5') (H253231-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
<b>DRO &gt;C10-C28*</b>	<b>11.6</b>	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 131 % 40.6-153

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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 (1.5') (H253231-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 121 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 (1.5') (H253231-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 123 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 (1.5') (H253231-17)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389	
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159	
Total BTEX	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 123 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 (1.5') (H253231-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 126 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 (1.5') (H253231-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 124 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 (1.5') (H253231-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.87	93.6	2.00	0.389		
Toluene*	<0.050	0.050	05/30/2025	ND	1.98	98.8	2.00	0.365		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	0.209		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.79	96.6	6.00	0.159		
Total BTEx	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 40.6-153

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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 (1.5') (H253231-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.79	89.7	2.00	6.54		
Toluene*	<0.050	0.050	05/30/2025	ND	1.97	98.5	2.00	6.63		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.85	92.4	2.00	7.29		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.56	92.6	6.00	7.02		
Total BTEX	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 125 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/29/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 8 (1.5') (H253231-22)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.79	89.7	2.00	6.54	
Toluene*	<0.050	0.050	05/30/2025	ND	1.97	98.5	2.00	6.63	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.85	92.4	2.00	7.29	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.56	92.6	6.00	7.02	
Total BTEX	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/30/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 127 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



# Chain of Custody

Work Order No: 14253231

Page 1 of 3

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

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Iperfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Sandra Jean West (02.26.2025)		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes							
Project Number:		2693		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																None: NO DI Water: H <sub>2</sub> O							
Project Location		Lea County, New Mexico		Due Date:		48 hr.														Cool: Cool MeOH: Me							
Sampler's Name:		JDC																		HCL: HC HNO <sub>3</sub> : HN							
PO #:																				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														H <sub>3</sub> PO <sub>4</sub> : HP					
Received intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Inert/Inert:		#140														H <sub>2</sub> SO <sub>4</sub> : NaOH							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		+0.3														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		5.7														Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:		6.0														NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
CS-1 (1.5')		5/29/2025				X				C		1		X X X													
CS-2 (1.5')		5/29/2025				X				C		1		X X X													
CS-3 (1.5')		5/29/2025				X				C		1		X X X													
CS-4 (1.5')		5/29/2025				X				C		1		X X X													
CS-5 (1.5')		5/29/2025				X				C		1		X X X													
CS-6 (1.5')		5/29/2025				X				C		1		X X X													
CS-7 (1.5')		5/29/2025				X				C		1		X X X													
CS-8 (1.5')		5/29/2025				X				C		1		X X X													
CS-9 (1.5')		5/29/2025				X				C		1		X X X													
CS-10 (1.5')		5/29/2025				X				C		1		X X X													

Comments:			

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<i>[Signature]</i>		5-29-25 1100		<i>[Signature]</i>			



# Chain of Custody

Work Order No: 1253231

Page 2 of 3

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

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

Project Name:		Sandra Jean West (02.26.2025)		Turn Around				ANALYSIS REQUEST										Preservative Codes			
Project Number:		2693		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code												None: NO DI Water: H <sub>2</sub> O			
Project Location		Lea County, New Mexico		Due Date:		48 hr.												Cool: Cool MeOH: Me			
Sampler's Name:		JDC																HCL: HC HNO <sub>3</sub> : HN			
PO #:																		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na			
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												H <sub>3</sub> PO <sub>4</sub> : HP	
Receivable Initial:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		#140												NaHSO <sub>4</sub> : NaHS			
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		+0.38												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		5.7												Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:		6.0												NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments			
CS-11 (1.5')		5/29/2025		X		C	1	X	X	X											
CS-12 (1.5')		5/29/2025		X		C	1	X	X	X											
CS-13 (1.5')		5/29/2025		X		C	1	X	X	X											
CS-14 (1.5')		5/29/2025		X		C	1	X	X	X											
SW-1 (1.5')		5/29/2025		X		C	1	X	X	X											
SW-2 (1.5')		5/29/2025		X		C	1	X	X	X											
SW-3 (1.5')		5/29/2025		X		C	1	X	X	X											
SW-4 (1.5')		5/29/2025		X		C	1	X	X	X											
SW-5 (1.5')		5/29/2025		X		C	1	X	X	X											
SW-6 (1.5')		5/29/2025		X		C	1	X	X	X											

Comments:			

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
<u>[Signature]</u>		5-29-25 1600		<u>[Signature]</u>			



## Chain of Custody

Work Order No: 11253231

Page 3 of 3

[illegible]





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

June 02, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: SANDRA JEAN WEST (02.26.2025)

Enclosed are the results of analyses for samples received by the laboratory on 05/30/25 13:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/30/2025  
 Reported: 06/02/2025  
 Project Name: SANDRA JEAN WEST (02.26.2025)  
 Project Number: 2693  
 Project Location: CIMAREX-LEA COUNTY, NEW MEXICO

Sampling Date: 05/30/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: LEA LAND - BACKFILL (H253249-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTEX	<0.300	0.300	05/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/02/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2025	ND	199	99.6	200	2.26	
DRO >C10-C28*	<10.0	10.0	06/02/2025	ND	196	97.9	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/02/2025	ND					

Surrogate: 1-Chlorooctane 65.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.7 % 40.6-153

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### Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



Page 1 of 1

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	5-30-25 1352		



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

QUESTIONS

Action 477331

**QUESTIONS**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 477331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2505769942
Incident Name	NAPP2505769942 SANDRA JEAN WEST CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2433665921] Sandra Jean West CTB

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Sandra Jean West CTB
Date Release Discovered	02/26/2025
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Crude Oil   Released: 4 BBL   Recovered: 4 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 10 BBL   Recovered: 9 BBL   Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The tank radars were registering inaccurate levels. This prevented the water transfer pumps from kicking on and transferring water from the tanks. As a result, the water tanks over-ran out of the thief hatch and into the lined containment. A total of 13 barrels was released into the lined containment and an estimated 1.5 barrels over-sprayed onto the facility pad due to the wind. Vac trucks recovered all fluids from the lined containment. Impacted soils will be remediated and a liner inspection will be scheduled in the coming weeks.



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QUESTIONS, Page 2

Action 477331

**QUESTIONS (continued)**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 477331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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 Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 06/20/2025
--	--



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QUESTIONS, Page 3

Action 477331

**QUESTIONS (continued)**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID:
	330396
	Action Number:
	477331
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 approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	220
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6580
GRO+DRO (EPA SW-846 Method 8015M)	6580
BTEX (EPA SW-846 Method 8021B or 8260B)	12.8
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 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.

On what estimated date will the remediation commence	05/29/2025
On what date will (or did) the final sampling or liner inspection occur	06/09/2025
On what date will (or was) the remediation complete(d)	05/29/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
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	1686
What is the estimated volume (in cubic yards) that will be remediated	94

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.

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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QUESTIONS, Page 4

Action 477331

**QUESTIONS (continued)**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 477331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 06/20/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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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 5

Action 477331

QUESTIONS (continued)

Operator:  Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID:  330396
	Action Number:  477331
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6

Action 477331

**QUESTIONS (continued)**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID:
	330396
	Action Number:
	477331
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	465573
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/29/2025
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	3000

**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	1686
What was the total volume (cubic yards) remediated	94
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)	Site assessment completed and excavated areas that exceeded set in Table 1 of NMAC 19.15.29.12/13. Backfilled with clean backfill (lab confirmed). Will reclaim/reseed the entire pad during P/A activities

*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: 06/20/2025
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QUESTIONS, Page 7

Action 477331

QUESTIONS (continued)

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 477331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS

Action 477331

CONDITIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 477331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/1/2025