

SITE INFORMATION

Deferral Report Lusitano 27 CTB 3 Incident ID: NAPP2423965135 Unit C Sec 27 T25S R31E Eddy County, New Mexico 32.106063°, -103.769352°

Produced Water Release

Point of Release: Equipment Failure; pinhole on ball valve for main water line

Release Date: 08.26.2024

Volume Released: 12 Barrels of Produced Water Volume Recovered: 5 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Devon Energy
5315 Buena Vista Drive,
Carlsbad, New Mexico 88220

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



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



May 29, 2025

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

Re: Deferral Report

Lusitano 27 CTB 3 Devon Energy

Incident #: NAPP2423965135

Site Location: Unit C, S27, T25S, R31E (Lat 32.106063°, Long -103.769352°)

Eddy County, New Mexico

Mr. Bratcher:

On behalf of Devon Energy (Devon), Carmona Resources, LLC has prepared this letter to document site activities for the Lusitano 27 CTB 3. The site is located at 32.106063°, -103.769352° within Unit C, S27, T25S, and R31E, in Eddy 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 August 26, 2024, due to a pinhole leak that developed on a ball valve for the main water line. It resulted in the release of twelve (12) barrels of produced water, with five (5) barrels recovered. The release occurred on the pad. Refer to Figure 3 for the spill outline. The Notice of Release form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a 0.50-mile radius of the location. The nearest identified groundwater determination bore is located approximately 0.40 miles Northeast of the site in S27, T25S, R31E and was drilled on June 2, 2022. The well was drilled to 55 feet below ground surface (ft bgs) with no evidence of groundwater found in the bore when it was measured on June 7, 2022. 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, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 10,000 mg/kg.

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4.0 Site Assessment Activities

Trenching

On November 26, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical and horizontal extent, three (3) trenches (T-1 through T-3) and six (6) horizontal samples (H-1 through H-6) were advanced to depths ranging from the surface to 8' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas 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 for the analytical results.

Horizontal Delineation

Horizontal delineation was achieved in all areas for Benzene, total BTEX, TPH, and chloride concentrations. See Table 1 for the results.

5.0 Remediation Activities

Before Carmona Resources personnel were on site, Devon Energy contacted a third-party contractor to excavate and remove the contaminated soils from the affected areas. Once excavation activities were completed, Carmona Resources personnel were on site to collect confirmation samples from the excavated areas. Before collecting composite confirmation samples, the NMOCD division office was notified via the NMOCD web portal on March 24, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the NMOCD correspondence. A total of five (5) confirmation floor samples (CS-1 through CS-5) and thirteen (13) sidewall samples (SW-1 through SW-13) 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 directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. All collected samples were analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

Deferment Area

Due to safety concerns on site, a 6"-8" buffer zone on each side of Devons' facility equipment, and underneath the equipment, will be deferred per 19.15.29.12.C.2 NMAC. The area of T-1, SW-10, and SW-11 will be deferred. The area of T-1 has been vertically delineated and is horizontally delineated by H-1 & H-6. To remove all contaminated material, major facility deconstruction would have to take place. Removing soil within that buffer zone could potentially cause structural instability and might result in additional releases in the future as backfill material can shift and settle over time. The deferred areas are defined by the following composite confirmation sidewall samples: SW-10 & SW-11. Approximately 821 square feet, 137 cubic yards of contamination was left in place underneath and within the buffer zones

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surrounding the site equipment. Refer to Table 2 for the results. See Figure 5 for the deferment sample areas.

Once the remediation activities were completed, the excavated area was backfilled with clean material to surface grade. The material utilized for backfill was sourced from the MOS Crushing Pit. The composite pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 1,055 square feet, 181 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the safety concerns regarding the active facility equipment, Devon requests to defer the TPH impact within the area of T-1. Remediation of the deferred area will be completed accordingly during plugging and abandonment activities or when the equipment is removed, whichever comes first. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

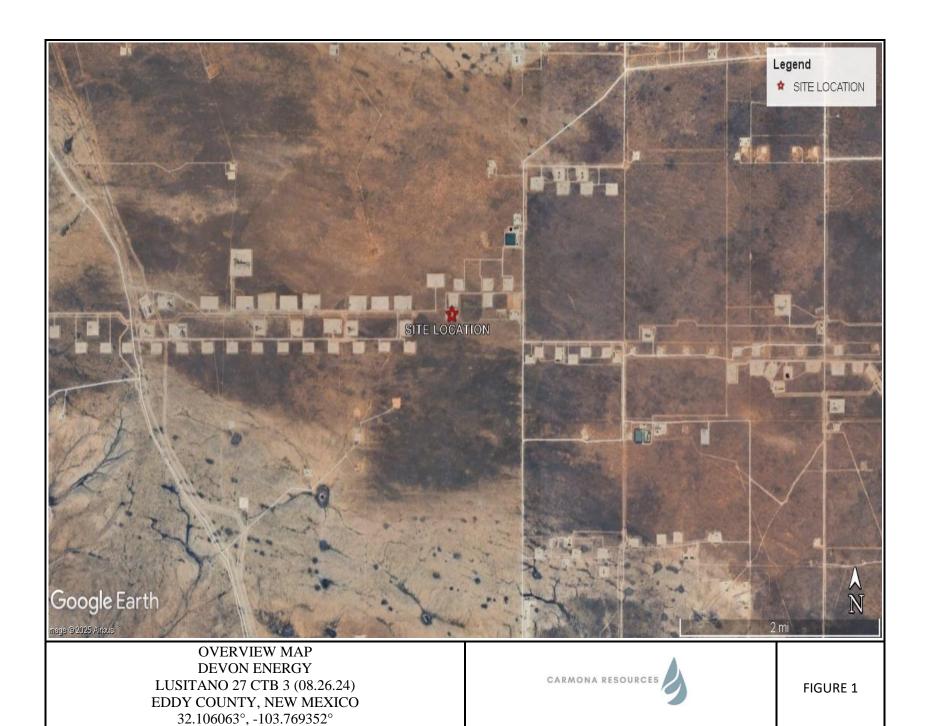
Sincerely,

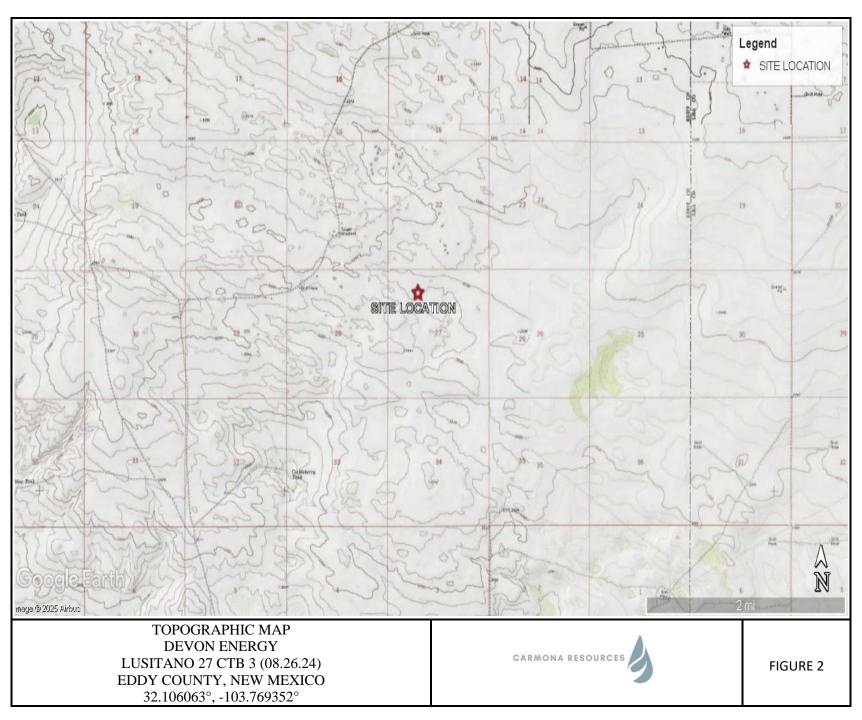
Carmona Resources, LLC

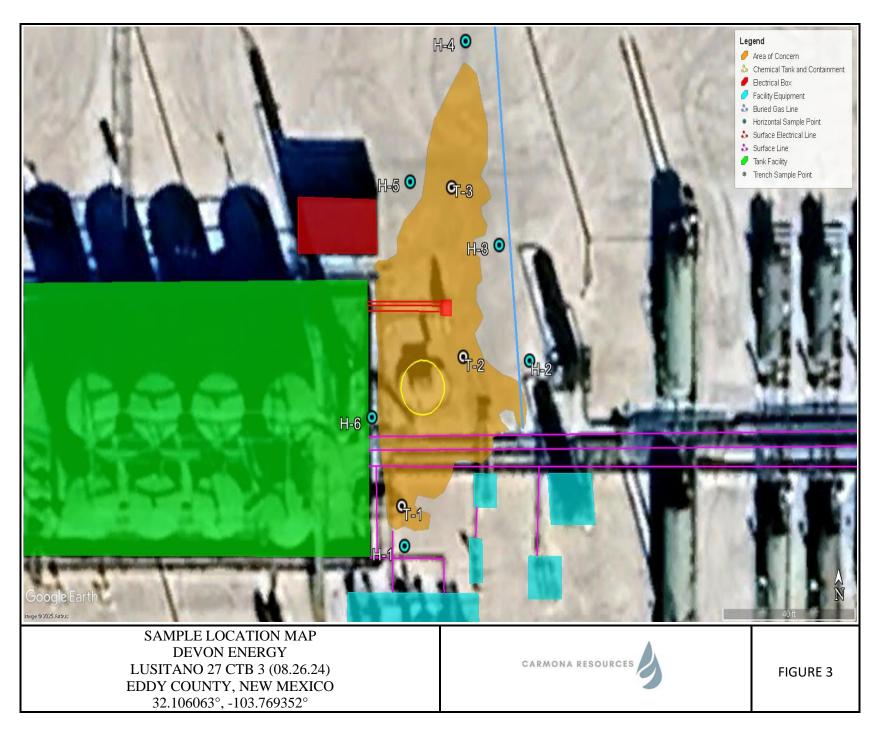
Conner Moehring Environmental Manager Ivan Ramos Project Manager

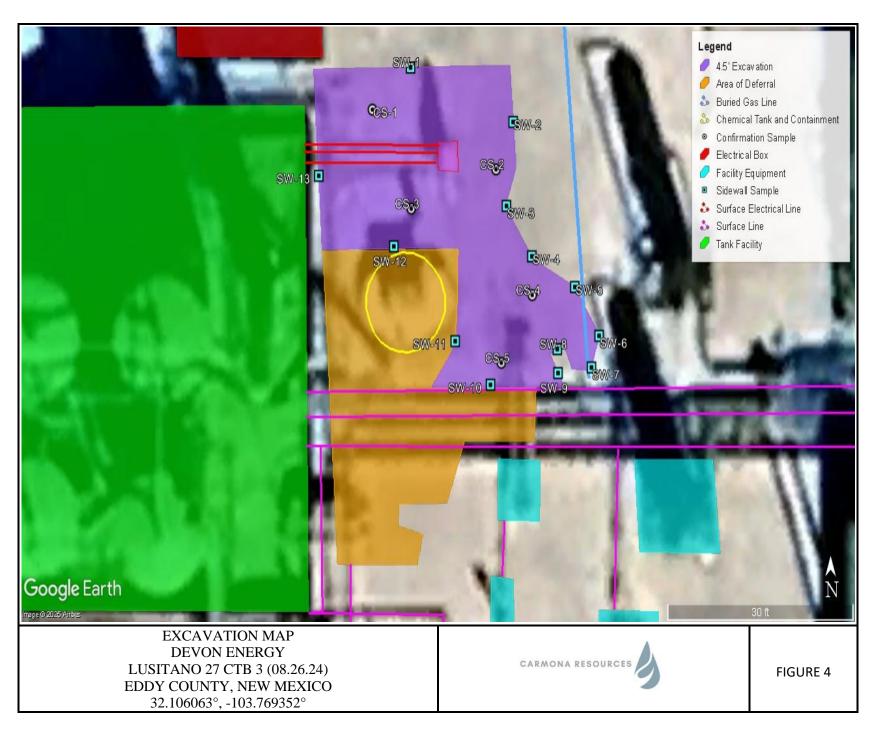
FIGURES

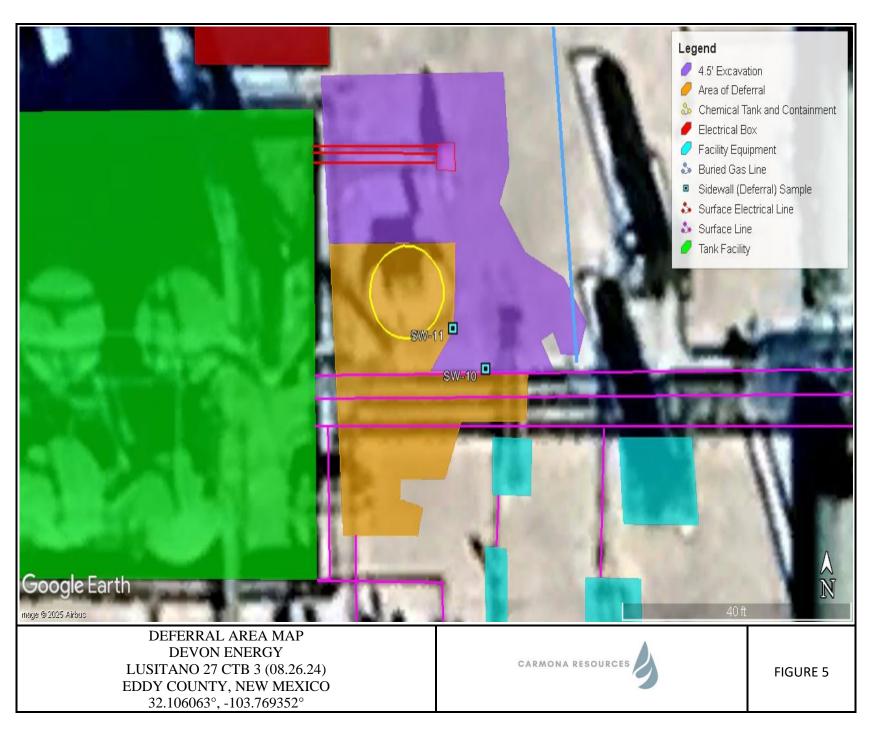
CARMONA RESOURCES











APPENDIX A

CARMONA RESOURCES

Table 2 **Devon Energy** Lusitano 27 CTB 3 **Eddy County, New Mexico**

		5 1 40		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
	11/26/2024	0-1'	1,970	3,640	<49.7	5,610	1.23	18.1	4.68	98.4	122	93.7
	"	2.0'	1,730	4,460	<49.8	6,190	<0.0996	0.13	<0.0996	4.14	72.6	160
	"	3.0'	120	574	<49.9	694	<0.0996	0.130	<0.0996	4.14	6.40	110
T-1	"	4.0'	1,190	2,720	<50.0	3,910	<0.101	2.32	1.27	19.7	23.3	111
1-1	"	5.0'	<50.0	61.7	<50.0	61.7	<0.501	0.00625	<0.501	0.134	6.04	112
	"	6.0'	<49.8	136	<49.8	136	<0.00200	0.00881	0.00341	0.105	0.117	74.2
	"	7.0'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	81.9
	II .	8.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	0.00343	<0.00202	0.0148	0.0182	123
	11/26/2024	0-1'	1,930	4,030	<49.8	5,960	0.545	10.9	2.79	77.4	91.6	91.2
	"	2.0'	2,070	6,170	<49.9	8,240	0.330	2.37	3.08	17.5	23.3	179
	"	3.0'	52.4	253	<50.0	305	<0.0998	0.383	0.767	5.53	17.5	76.0
T-2	"	4.0'	689	1,710	<49.9	2,400	<0.0996	1.19	0.931	10.1	12.2	127
1-2	"	5.0'	<49.7	156	<49.7	156	<0.00202	0.0140	<0.00202	0.0632	0.0772	69.6
	"	6.0'	<49.9	225	<49.9	225	<0.00199	0.0168	0.00692	0.150	0.174	73.6
	"	7.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	0.00322	<0.00200	0.0122	0.0154	111
	"	8.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00200	<0.00201	<0.00398	<0.00398	142
	11/26/2024	0-1'	<49.8	490	<49.8	490	<0.00200	0.00625	0.00365	0.134	0.144	80.1
T-3	"	2.0'	<50.0	180	<50.0	180	<0.00199	0.00824	0.00245	0.0799	0.0906	110
1-3	"	3.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	0.00206	<0.00200	0.00486	0.00692	99.3
	"	4.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	0.00321	<0.00202	0.00839	0.0116	125
H-1	9/16/2024	0-0.5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-2	9/16/2024	0-0.5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-3	9/16/2024	0-0.5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-4	9/16/2024	0-0.5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-5	9/16/2024	0-0.5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ry Criteria A		1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

SWR-91 & University Lands mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet (T) Trench Sample (H) - Horizontal Sample

Removed

Table 2 **Devon Energy** Lusitano 27 CTB 3 **Eddy County, New Mexico**

0 1 12	2.	D 11 (6)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
CS-1	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-3	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-4	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-5	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-1	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-2	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-6	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-8	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-9	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-10	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,880
SW-11	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,560
SW-12	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-13	3/26/2025	4.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
MOS Crushing Pit	3/26/2025	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	183
	ry Criteria A		1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet

(CS) - Confirmation Sample (SW) - Sidewall Sample

Deferment Area

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Devon Energy

Photograph No. 1

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View East, area of CS-1.



Photograph No. 2

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-2 and CS-3.



Photograph No. 3

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View North, area of CS-2 and CS-3.





PHOTOGRAPHIC LOG

Devon Energy

Photograph No. 4

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

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



Photograph No. 5

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View East of backfilled area.



Photograph No. 6

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View Southeast of backfilled area.





PHOTOGRAPHIC LOG

Devon Energy

Photograph No. 7

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View South of backfilled area.



Photograph No. 8

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View South of backfilled area.



Photograph No. 9

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View Southeast of backfilled area.





APPENDIX C

CARMONA RESOURCES

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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 378053

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	378053
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source				
Please answer all the questions in this group.				
Site Name	LUSITANO 27 CTB 3			
Date Release Discovered	08/26/2024			
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

Material(s) released, please answer all that apply below. Any calculations or specific justifications t	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 12 BBL Recovered: 5 BBL Lost: 7 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)	pinhole on ball valve on main water line caused spill. 11.6 bbls spilled onto pad. 5 bbls recovered

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 **Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

State of New Mexico

QUESTIONS, Page 2

Action 378053

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	378053
	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 s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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ACKNOWLEDGMENTS

Action 378053

ACKNOWLEDGMENTS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	378053
l l	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
V	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
V	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.
V	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.
V	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

CONDITIONS

Action 378053

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave. Oklahoma City, OK 73102	Action Number: 378053
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created	Condition	Condition
Ву		Date
wdale	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/26/2024

LUSITANO 27 CTB 3

8/26/2024

OCD INCIDENT nAPP2423965135

Spill Volume(Bbls) Calculator			
In	Inputs in blue, Outputs in red		
Cor	Contaminated Soil measurement		
Area (squa	are feet)	Depth(inches)	
<u>2726.</u>	<u>463</u>	<u>0.250</u>	
Cubic Feet of S	oil Impacted	<u>56.801</u>	
Barrels of So	il Impacted	<u>10.13</u>	
Soil T	уре	Clay/Sand	
Barrels of Oi 100% Sat	_	<u>1.52</u>	
Saturation	Damp	no fluid when squeezed	
Estimated Ba Relea		0.15	
Free Standing Fluid Only		ing Fluid Only	
Area (squa	are feet)	Depth(inches)	
<u>2726.</u>	<u>463</u>	<u>0.250</u>	
Standin	g fluid	<u>10.125</u>	
<u>Total fluid</u>	s spilled	<u>11.644</u>	

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 378098

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	378098
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2423965135	
Incident Name	NAPP2423965135 LUSITANO 27 CTB 3 @ 0	
Incident Type	Produced Water Release	
Incident Status	Initial C-141 Received	
Incident Facility	[fAPP2122855364] LUSITANO 27 CTB 3	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	LUSITANO 27 CTB 3	
Date Release Discovered	08/26/2024	
Surface Owner	Federal	

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 12 BBL Recovered: 5 BBL Lost: 7 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)	pinhole on ball valve on main water line caused spill. 11.6 bbls spilled onto pad. 5 bbls recovered	

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1220 S. St Francis Dr., Santa Fe, NM 87505

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 378098

Phone: (505) 476-3470 Fax: (505) 476-3462	
QUESTI	ONS (continued)
Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	378098
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

Date: 08/27/2024

District I

QUESTIONS

storage site

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

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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 378098

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	378098
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

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 elease discovery date. What is the shallowest depth to groundwater beneath the area affected by the Not answered. release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water Not answered. Did this release impact groundwater or surface water Not answered. What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A continuously flowing watercourse or any other significant watercourse 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 Not answered for domestic or stock watering purposes 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.

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	No	
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.		

Not answered.

Did the release impact areas not on an exploration, development, production, or

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CONDITIONS

Action 378098

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	378098
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Crea	ited By	Condition	Condition Date
scv	wells	None	8/29/2024

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 444872

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	444872
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2423965135			
Incident Name	NAPP2423965135 LUSITANO 27 CTB 3 @ 0			
Incident Type	Produced Water Release			
Incident Status	Initial C-141 Approved			
Incident Facility	[fAPP2122855364] LUSITANO 27 CTB 3			

Location of Release Source	
Site Name	LUSITANO 27 CTB 3
Date Release Discovered	08/26/2024
Surface Owner	Federal

Sampling Event General Information					
Please answer all the questions in this group.					
What is the sampling surface area in square feet	1,100				
What is the estimated number of samples that will be gathered	19				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2025				
Time sampling will commence	12:30 PM				
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-6823				
Please provide any information necessary for navigation to sampling site	32.105974, -103.769333				

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

CONDITIONS

Action 444872

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	444872
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	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.	3/24/2025

Mike Carmona

From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Sent: Wednesday, November 20, 2024 10:31 AM

To: Raley, Jim

Cc: Mike Carmona; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD

Subject: (Extension Approval) - Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135

RE: Incident #NAPP2423965135

Jim,

Your request for a 90 day extension to **February 18th, 2025** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, November 20, 2024 8:35 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> **Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135- Extension Request

From: Raley, Jim < <u>Jim.Raley@dvn.com</u>>
Sent: Tuesday, November 19, 2024 6:23 AM

To: Enviro, OCD, EMNRD < <u>OCD.Enviro@emnrd.nm.gov</u>> **Cc:** Mike Carmona < Mcarmona@carmonaresources.com>

Subject: [EXTERNAL] Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135- Extension Request

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

NMOCD District II,

This correspondence requests a ninety-day extension of time from the OCD for the produced water release at the Devon – Lusitano 27 CTB 3 – nAPP2423965135, located in Lea County,

New Mexico. The project has been slower than anticipated in ensuring that all safety protocols have been met due to the multiple buried pipeline and surface lines and in coordinating with the client. The requested time extension is to complete a proper and thorough investigation.

Please let us know if you have any questions regarding this site.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



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Mike Carmona

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Wednesday, February 19, 2025 3:08 PM

To: Raley, Jim

Cc: Mike Carmona; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD

Subject: (Final Extension) - Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135

RE: Incident #NAPP2423965135

Jim,

A 90-day extension to **May 20th, 2025** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim < Jim.Raley@dvn.com>

Sent: Wednesday, February 19, 2025 1:31 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Mike Carmona < Mcarmona@carmonaresources.com >; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >;

Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Subject: RE: [EXTERNAL] (Extension Approval) - Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135

NMOCD District II,

Devon Energy is requesting a 90 day extension for – Lusitano 27 CTB 3 – nAPP2423965135, located in Lea County, New Mexico. This project is currently being started by construction due to delays that involved vertical delineation near a pipeline and planning to allow for safe excavation.

We plan on this excavation and reporting being completed within the next 90 days.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | <u>jim.raley@dvn.com</u>



From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Sent: Wednesday, November 20, 2024 9:31 AM

To: Raley, Jim <Jim.Raley@dvn.com>

Cc: Mike Carmona < Mcarmona@carmonaresources.com; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov;

Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Subject: [EXTERNAL] (Extension Approval) - Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135

RE: Incident #NAPP2423965135

Jim,

Your request for a 90 day extension to **February 18th, 2025** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Wells, Shelly, EMNRD < Shelly. Wells@emnrd.nm.gov >

Sent: Wednesday, November 20, 2024 8:35 AM

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Sent: Tuesday, November 19, 2024 6:23 AM

To: Enviro, OCD, EMNRD < ocn.enviro@emnrd.nm.gov **Cc:** Mike Carmona Mcarmona@carmonaresources.com

Subject: [EXTERNAL] Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135- Extension Request

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

NMOCD District II,

This correspondence requests a ninety-day extension of time from the OCD for the produced water release at the Devon – Lusitano 27 CTB 3 – nAPP2423965135, located in Lea County, New Mexico. The project has been slower than anticipated in ensuring that all safety protocols have been met due to the multiple buried pipeline and surface lines and in coordinating with the client. The requested time extension is to complete a proper and thorough investigation.

Please let us know if you have any questions regarding this site.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



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APPENDIX D

CARMONA RESOURCES







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)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance		Depth Water	
C 04619 POD1		CUB	ED	NE	NW	NE	27	25S	31E	616749.8	3552958.1	•	557	55		
<u>C 02250</u>		CUB	ED	SW	NW	SE	21	25S	31E	614912.0	3553620.0 *	•	1409	400	390	10
C 04500 POD1		CUB	ED	SE	SE	NW	28	25S	31E	614620.2	3552380.1	•	1713			
<u>C 04826 POD1</u>		CUB	ED	SE	NE	NW	29	25S	31E	613109.6	3552725.7		3105	55		

Average Depth to Water: 390 feet

Minimum Depth: 390 feet

Maximum Depth: 390 feet

Record Count: 4

UTM Filters (in meters):

Easting: 616199.00 **Northing:** 3553046.00

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.



ION	OSE POD NO POD 1 (TV	W-1)			WELL TAG ID NO. N/A			OSE FILE NO(C-4619	(S).			
OCAT	WELL OWNI Devon Ene		3)					PHONE (OPTI 575-748-18				
GENERAL AND WELL LOCATION	WELL OWN 6488 7 Riv		G ADDRESS					CITY Artesia		STA'		ZIP
L AND	WELL LOCATIO	N LA	D	EGREES 32	MINUTES 6	SECO.	NDS .94 N	* ACCURACY	REQUIRED: ONE TE	NTH OF	A SECOND	
VERA	(FROM GP	PS)	ONGITUDE	103	45	45.	.26 W	* DATUM RE	QUIRED: WGS 84			
1. GE	1		ING WELL LOCATION TO T25S R31S NMPM		ESS AND COMMON	N LANDM	IARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) W	HERE A	VAILABLE	
	LICENSE NO. NAME OF LICENSED DRILLER 1249 NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.							nc.				
	DRILLING S	TARTED	DRILLING ENDED		MPLETED WELL (F		BORE HOI	LE DEPTH (FT)	DEPTH WATER FI			
	6/2/2	022	6/2/2022	Ten	nporary Well		:	±55		N	I/A	
COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED) STATIC WATER LEVEL IN COMPLETED WELL N/A 6/7/20												
ATIC	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY: DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER – SPECIFY: Hollow Stem Auger CHECK HERE IF PITLESS ADAPTER IS											
2. DRILLING & CASING INFORMATION	DRILLING M		ROTARY HAM		E TOOL 🗸 OTH		CIFY: H	Iollow Stem	Auger CHECK	LLED	IF PITLESS ADAP	TER IS
GINE	DEPTH FROM	(feet bgl)	BORE HOLE DIAM	CASING N	MATERIAL AND GRADE	O/OR		ASING	CASING		SING WALL	SLOT
ASIN	TROW	10	(inches)		ach casing string, ections of screen)		Т	NECTION TYPE ling diameter)	INSIDE DIAM. (inches)	'	HICKNESS (inches)	SIZE (inches)
& C	0	55	±6.5	I	Boring-HSA		(add coup.					
LING										+		
RIL										+		
2. I												
		-							OSE DII JU	10	2022 nm3:2	
										-		
	DEPTH	(feet hal)	Popper	1 7.00	T AND THE AN OF	7AT 25	TERRI :	ND	11/0			
AL	FROM	TO	BORE HOLE DIAM. (inches)		T ANNULAR SI ÆL PACK SIZE				AMOUNT (cubic feet)		METHOI PLACEM	
ANNULAR MATERIAL												
MA												
ULAI												
ANNI												
3.												
EOP	OSE BUTER	NIAT TICT	,						A WELL PROSE	0.7.5		10000
FILE	OSE INTER		119 - DUR)(POD NO). P	1000	TRN 1	NO. 175	& LO	U (Version 01/28	3/2022)
LOC	ATION	296	319	17	2-1			WELL TAG II	103	~	PAGE	1 OF 2

	DEPTH (1	eet bgl)	THE CHANGE	COLOR AN	ID TYPE OF MATERIAL E	NCOUNTERED -		WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	A STATE OF THE STA	ER-BEARING CAVITIES OF pplemental sheets to fully de		ES	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
	0	4	4	Sand, Fine-gr	rained, poorly graded, 5 YR 5	/3, Reddish Brown		Y ✓N	
	4	24	20	Sand, Fine-grain	ned, poorly graded, with Cali	che, 7.5 YR 7/4, Pink		Y ✓N	
	24	55	31	Sand, Fine-grained, po	orly graded,unconsolidated,	7.5 YR 7/6, Reddish Y	Yellow	Y ✓N	
- 12								Y N	
								Y N	
1								Y N	
4. HYDROGEOLOGIC LOG OF WELL								Y N	
OF								Y N	
903								Y N	
IC!								Y N	
100								Y N	
GEO								Y N	
RO								Y N	
HYD								Y N	
4								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:		тот	AL ESTIMATED	
	PUM	P A	IR LIFT	BAILER O	THER – SPECIFY:		WEI	LL YIELD (gpm):	0.00
VISION	WELL TES				TA COLLECTED DURING HOWING DISCHARGE AN				
	MISCELLA	NEOUS INF	FORMATION: To	emporary well materi	al removed and soil boring	backfilled using d	rill cut	tings from total de	enth to ten feet
TEST; RIG SUPER			De	elow ground surface(t	ogs), then hydrated benton	ite chips ten feet bg	s to su	rface.	•
GSI			24 L	4 usitano 27 34 Fed Co	m 734	0	SE D	IT JUN 10 202	2 am3:22
l; RI									
rest	PRINT NAM	ME(S) OF DI	RILL RIG SUPE	RVISOR(S) THAT PRO	OVIDED ONSITE SUPERVI	SION OF WELL CON	ISTRU	CTION OTHER TH	AN LICENSEE:
,	Shane Eldri	dge, Camer	ron Pruitt						
URE	CORRECT	RECORD O	F THE ABOVE I	DESCRIBED HOLE AN	BEST OF HIS OR HER KNO ND THAT HE OR SHE WIL IPLETION OF WELL DRIL	L FILE THIS WELL	LIEF, T RECOI	HE FOREGOING I RD WITH THE STA	S A TRUE AND ATE ENGINEER
SIGNATURE	Jack	Atkins		Ja	ckie D. Atkins			6/9/2022	
6.	SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE								
	E NO.	nal use – YUI	G		POD NO. POOL	WR-20 WE	ELL RE	CORD & LOG (Ve) 25954	rsion 01/28/2022)
_	CATION	765	319	12	2 2			UA	PAGE 2 OF 2
		100	OIL	LT	r., r.	WELL TAG ID NO	<u> </u>	_ , _ ,	111022012

LUSITANO 27 CTB 3 (08.26.2024)



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, NM OSE

APPENDIX E

CARMONA RESOURCES

Report to:
Conner Moehring







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Carmona Resources

Project Name: Lusitano 27 CTB 3

Work Order: E409075

Job Number: 01058-0007

Received: 9/11/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/16/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/16/24

Conner Moehring 310 West Wall St. Suite 415 Midland, TX 79701

Project Name: Lusitano 27 CTB 3

Workorder: E409075

Date Received: 9/11/2024 6:00:00AM

Conner Moehring,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/11/2024 6:00:00AM, under the Project Name: Lusitano 27 CTB 3.

The analytical test results summarized in this report with the Project Name: Lusitano 27 CTB 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Carmona Resources	Project Name:	Lusitano 27 CTB 3	Reported:
310 West Wall St. Suite 415	Project Number:	01058-0007	Keporteu.
Midland TX, 79701	Project Manager:	Conner Moehring	09/16/24 12:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
H1 (0-0.5')	E409075-01A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
H2 (0-0.5')	E409075-02A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
H3 (0-0.5')	E409075-03A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
H4 (0-0.5')	E409075-04A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
H5 (0-0.5')	E409075-05A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.



Carmona Resources	Project Name:	Lusitano 27 CTB 3	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	9/16/2024 12:54:21PM

H1 (0-0.5') E409075-01

	E4090/5-01				
D 1:	Reporting	Dil d	D 1		N.
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg mg/kg		Ana	Analyst: BA		Batch: 2437051
ND	0.0250	1	09/11/24	09/12/24	
ND	0.0250	1	09/11/24	09/12/24	
ND	0.0250	1	09/11/24	09/12/24	
ND	0.0250	1	09/11/24	09/12/24	
ND	0.0500	1	09/11/24	09/12/24	
ND	0.0250	1	09/11/24	09/12/24	
	102 %	70-130	09/11/24	09/12/24	
mg/kg	mg/kg	Ana	lyst: BA		Batch: 2437051
ND	20.0	1	09/11/24	09/12/24	
	93.6 %	70-130	09/11/24	09/12/24	
mg/kg	mg/kg	Ana	lyst: NV		Batch: 2437048
ND	25.0	1	09/11/24	09/14/24	
ND	50.0	1	09/11/24	09/14/24	
	83.8 %	50-200	09/11/24	09/14/24	
mg/kg	mg/kg	Ana	llyst: IY		Batch: 2437054
ND	20.0	1	09/11/24	09/11/24	
	ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IO2 % mg/kg mg/kg mg/kg ND 20.0 93.6 % mg/kg ND 25.0 ND 50.0 83.8 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 Mg/kg mg/kg Ana ND 20.0 1 93.6 % 70-130 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 83.8 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: BA ND 0.0250 1 09/11/24 ND 0.0250 1 09/11/24 ND 0.0250 1 09/11/24 ND 0.0500 1 09/11/24 ND 0.0250 1 09/11/24 ND 0.0250 1 09/11/24 mg/kg mg/kg Analyst: BA ND 20.0 1 09/11/24 mg/kg mg/kg Analyst: NV ND 25.0 1 09/11/24 ND 50.0 1 09/11/24 ND 50.0 1 09/11/24 ND 50.0 1 09/11/24 ND 50.0 1 09/11/24 Mg/kg Mg/kg Analyst: NV	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 09/11/24 09/12/24 ND 0.0250 1 09/11/24 09/12/24 ND 0.0250 1 09/11/24 09/12/24 ND 0.0500 1 09/11/24 09/12/24 ND 0.0250 1 09/11/24 09/12/24 ND 0.0250 1 09/11/24 09/12/24 mg/kg mg/kg Analyst: BA ND 20.0 1 09/11/24 09/12/24 mg/kg mg/kg Analyst: NV ND 25.0 1 09/11/24 09/14/24 ND 25.0 1 09/11/24 09/14/24 ND 50.0 1 09/11/24 09/14/24 ND 50.0 1 09/11/24 09/14/24 Mg/kg mg/kg Analyst: IY



Carmona Resources	Project Name:	Lusitano 27 CTB 3	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	9/16/2024 12:54:21PM

H2 (0-0.5')

		E409075-02				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2437051
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2437051
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2437048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
Surrogate: n-Nonane		74.6 %	50-200	09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2437054
Chloride	ND	20.0	1	09/11/24	09/11/24	



Carmona Resources	Project Name:	Lusitano 27 CTB 3	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	9/16/2024 12:54:21PM

H3 (0-0.5') E409075-03

		E4090/5-03				
Aughte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilution	rrepared	Analyzed	inoles
Volatile Organics by EPA 8021B		mg/kg	Anal	yst: BA		Batch: 2437051
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: BA		Batch: 2437051
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2437048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
Surrogate: n-Nonane		79.7 %	50-200	09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2437054
Chloride	ND	20.0	1	09/11/24	09/11/24	



Carmona Resources	Project Name:	Lusitano 27 CTB 3	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	9/16/2024 12:54:21PM

H4 (0-0.5')

E409075-04						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2437051
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2437051
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2437048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
Surrogate: n-Nonane		87.1 %	50-200	09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2437054
Chloride	ND	20.0	1	09/11/24	09/11/24	



Carmona Resources	Project Name:	Lusitano 27 CTB 3	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
Midland TX, 79701	Project Manager:	Conner Moehring	9/16/2024 12:54:21PM

H5 (0-0.5')

		E409075-05				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2437051
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2437051
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2437048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
Surrogate: n-Nonane		50.7 %	50-200	09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2437054
Chloride	ND	20.0	1	09/11/24	09/11/24	



Matrix Spike Dup (2437051-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

5.30

5.12

5 22

5.10

10.4

15.5

8.03

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

QC Summary Data

Lusitano 27 CTB 3 Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 01058-0007 Midland TX, 79701 Project Manager: Conner Moehring 9/16/2024 12:54:21PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2437051-BLK1) Prepared: 09/11/24 Analyzed: 09/11/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.01 8.00 100 70-130 LCS (2437051-BS1) Prepared: 09/11/24 Analyzed: 09/11/24 5.25 105 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.06 0.0250 5.00 101 70-130 5.17 0.0250 5.00 103 70-130 Toluene o-Xylene 5.05 0.0250 5.00 101 70-130 10.3 10.0 103 70-130 0.0500 p.m-Xvlene 102 70-130 15.3 15.0 Total Xylenes 0.0250 8.00 101 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.05 Matrix Spike (2437051-MS1) Source: E409073-11 Prepared: 09/11/24 Analyzed: 09/11/24 5.21 0.0250 5.00 ND 54-133 Benzene ND 100 61-133 Ethylbenzene 5.02 0.0250 5.00 Toluene 5.13 0.0250 5.00 ND 103 61-130 5.02 ND 100 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.2 0.0500 10.0 ND 102 63-131 15.3 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.08 8.00

Source: E409073-11

102

104

102

104

103

100

54-133

61-133

61-130

63-131

63-131

63-131

70-130

1.70

1.86

1 84

1.66

1.76

1.73

ND

ND

ND

ND

ND

ND



Prepared: 09/11/24 Analyzed: 09/11/24

20

20

20

20

20

20

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

47.2

7.52

QC Summary Data

Carmona ResourcesProject Name:Lusitano 27 CTB 3Reported:310 West Wall St. Suite 415Project Number:01058-0007Midland TX, 79701Project Manager:Conner Moehring9/16/2024 12:54:21PM

Nonhalogenated Organics by EPA 8015D - GRO									Analyst: BA		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes		
Blank (2437051-BLK1)							Prepared: 0	9/11/24 Analy	zed: 09/11/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130					
LCS (2437051-BS2)							Prepared: 0	9/11/24 Analy	zed: 09/11/24		
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.8	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130					
Matrix Spike (2437051-MS2)				Source:	E409073-1	1	Prepared: 0	9/11/24 Analy	zed: 09/11/24		
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.5	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130					
Matrix Spike Dup (2437051-MSD2)				Source:	E409073-1	1	Prepared: 0	9/11/24 Analy	zed: 09/11/24		

50.0

8.00

20.0

ND

94.4

94.0

70-130

70-130

3.19

20



QC Summary Data

Carmona ResourcesProject Name:Lusitano 27 CTB 3Reported:310 West Wall St. Suite 415Project Number:01058-0007Midland TX, 79701Project Manager:Conner Moehring9/16/2024 12:54:21PM

,		, ,			8				
	Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: NV								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2437048-BLK1)							Prepared: 0	9/11/24 Ana	lyzed: 09/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			
LCS (2437048-BS1)							Prepared: 0	9/11/24 Ana	lyzed: 09/12/24
Diesel Range Organics (C10-C28)	206	25.0	250		82.2	38-132			
Surrogate: n-Nonane	44.6		50.0		89.3	50-200			
Matrix Spike (2437048-MS1)				Source:	E409066-	02	Prepared: 0	9/11/24 Ana	lyzed: 09/14/24
Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.6	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			
Matrix Spike Dup (2437048-MSD1)				Source:	E409066-	02	Prepared: 0	9/11/24 Ana	lyzed: 09/14/24
Diesel Range Organics (C10-C28)	207	25.0	250	ND	82.6	38-132	4.72	20	
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

QC Summary Data

Carmona Resources 310 West Wall St. Suite 415			usitano 27 CT 058-0007	В 3				Reported:	
Midland TX, 79701		Project Number: Project Manager		onner Moehri	ng				9/16/2024 12:54:21PM
		Anions	by EPA 3	00.0/9056	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2437054-BLK1)							Prepared: 0	9/11/24 A	nalyzed: 09/11/24
Chloride	ND	20.0							
LCS (2437054-BS1)							Prepared: 0	9/11/24 A	nalyzed: 09/11/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2437054-MS1)				Source:	E409073-	02	Prepared: 0	9/11/24 A	nalyzed: 09/11/24
Chloride	479	200	250	269	84.4	80-120			
Matrix Spike Dup (2437054-MSD1)				Source:	E409073-	02	Prepared: 0	9/11/24 A	nalyzed: 09/11/24
Chloride	485	200	250	269	86.7	80-120	1.21	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Carmona Resources	Project Name:	Lusitano 27 CTB 3	
ı	310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
ı	Midland TX, 79701	Project Manager:	Conner Moehring	09/16/24 12:54

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Work Order No: <u>E409075</u> Sob # - 01058-0007

	-													1 N					Page _	of
Project Manager:	Conner Moehri	ng			Bill to: (if	different)		D	enle	Woo	Mah						Work	Order	Comments	
Company Name:	Carmona Reso	urces			Compan	y Name:		Do	evon	Ene	ray			Prog	ram: US	T/PST	PRP	Brow	nfields RF	Cuperfund
Address:	310 W Wall St	Ste 500			Address:						ender	Pd+	£150	State of Project:						
City, State ZIP:	Midland, TX 79	701			City, Sta	te ZIP:				s, N				Repo	rting:Lev	/el II 🗌	Level III	ı ⊡s	r/ust ∐rr	P Level IV
Phone:	432-813-6823			Emai	1: Dale	. Wca	ialle	dev	·co	n.				Deliv	erables:	EDD		ADaP	T Oth	ier:
				TE MENS								N. MIL		L FILE						
Deciset News	0.500.0	27 616	. 7									ANIAI	VOIC DE	011507						
Project Name:	LISITANO	ZI CT	5.5	Routine	n Around		Pres.					ANAL	YSIS RE	QUEST	Т	-		_		vative Codes
Project Number:	2512	- 1100		/	Rush		Code							_		_	_		None: NO	DI Water: H
Project Location	EDDY C	0,000		Due Date:					6							- 1			Cool: Cool	MeOH: Me
Sampler's Name: PO #:	21398-	11.7					110000		MR										HCL: HC	HNO ₃ : HN
SAMPLE RECE			Yes No	10/-1/	6)	ters		9	0						- 1			H ₂ S0 ₄ : H ₂	NaOH: Na
The second second second		np Blank:	Thermometer ID	Wet Ice:	Yes	No	Parameters)21B	+ D	300.									H ₃ PO ₄ : HP	DIC
Received Intact: Cooler Custody Sea		No N/A	Correction Factor				Par	BTEX 8021B	3RO	Chloride 300.0									NaHSO ₄ : NA Na ₂ S ₂ O ₃ : Na	
ample Custody Se		No N/A	Temperature Re					BTE	TPH 8015M (GRO + DRO + MRO)	Cho									Zn Acetate+I	
otal Containers:	5		Corrected Temp						8015										Continuos de la contraction de	rbic Acid: SAPC
Sample Ide	Sample Identification Date Time Soil Water Gra		Grab/ Comp	# of Cont		TPH										Sampl	e Comments			
HI (0-0.5)	09/09/2	4	×		a	(χ	X	X									LABE	
HZ (0-05		1		×		a	1	X	X	×		1				_			2	
H3 (0-0.	5)			X		C	١	X	X	X				1					3	
HY (0-0-5				X		a	1	X	X	X									ч	
H5 (0-0.	-	*		X		a	(V	X	Х									5	
	-							V									\neg			
						1														
	A																			
								118												
Comments: Ema	ail to Mike Carm	ona / Mcarm	ona@carmona	resources.com	m and Co	nner Mc	ehring	/ Cmc	oehrir	ig@car	monares	sources	.com							
- Elif - Status																				
	TO SECURE	Relinquished I	by: (Signature)		ez (91)			Date/	Time	Monal.			Red	ceived b	y: (Sign	ature)				Date/Time
Jour M	sun Morlenn										1.	٤	_	2					9	Date/Time
	1 8-26-						9.10	1.24	11	600	Indre	100	2850	//						10.24 17
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Printed: 9/11/2024 9:20:11AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Carmona Resources	Date Received:	09/11/24 0	6:00		Work Order ID:	E409075
Phone:	(432) 813-6823	Date Logged In:	09/10/24 1:	5:27		Logged In By:	Noe Soto
Email:	cmoehring@carmonaresouces.com	Due Date:		7:00 (3 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location mate	ch the COC					
	samples dropped off by client or carrier?		Yes Yes	Comion C	aumian		
	ne COC complete, i.e., signatures, dates/times, request	ted analyses?	No	Carrier: <u>C</u>	<u>Journer</u>		
	all samples received within holding time?	ica anaryses:	Yes				
3. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		103			<u>Comment</u>	s/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		Time san	npled is missing	g on COC by client.
Sample (<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C,	i.e., 6°±2°C	Yes				
	Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15					
		emperature. 1	<u>~</u>				
	Container queous VOC samples present?		No				
	/OC samples collected in VOA Vials?		NA				
	thead space less than 6-8 mm (pea sized or less)?		NA NA				
	•						
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field La							
	field sample labels filled out with the minimum informable ID?	mation:	Yes				
	Date/Time Collected?		Yes				
	Collectors name?		No				
Sample l	Preservation		- 10				
21. Does	the COC or field labels indicate the samples were pro-	eserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved m	etals?	No				
Multipha	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphas	e?	No				
	s, does the COC specify which phase(s) is to be analy		NA				
			1171				
	ract Laboratory	0	3.7				
	amples required to get sent to a subcontract laborator	-	No				
29. Was a	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	o: NA		
Client I	<u>nstruction</u>						
Client I	<u>nstruction</u>						
Signa	ture of client authorizing changes to the COC or sample disp	osition.			Date		envirotech

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/13/2024 5:00:08 PM

JOB DESCRIPTION

Lusitano 27 CTB 3 Eddy County New Mexico

JOB NUMBER

880-51824-1

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 12/13/2024 5:00:08 PM

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

9

1 1

1 4

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Laboratory Job ID: 880-51824-1 SDG: Eddy County New Mexico

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Qualifier Description

Definitions/Glossary

Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Qualifiers

GC	VOA
Qua	lifier

*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
Н	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	

Qualifier

U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\tilde	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

MLMinimum 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)

Negative / Absent NEG POS Positive / Present **PQL**

Practical Quantitation Limit

PRES Presumptive **Quality Control** QC

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: Lusitano 27 CTB 3

Job ID: 880-51824-1

Eurofins Midland Job ID: 880-51824-1

Job Narrative 880-51824-1

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
- 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 12/5/2024 11:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97190 and analytical batch 880-97035 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-51824-1) and T-2 (0-1') (880-51824-6). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-97353 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-97353/51).

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (4') (880-51824-4), T-2 (0-1') (880-51824-6), T-2 (2") (880-51824-7) and T-2 (4') (880-51824-9). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-97450 and analytical batch 880-97353 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-97353 recovered above the upper control limit for Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-97353/64).

Method 8021B: The following samples were diluted due to the nature of the sample matrix: T-1 (3') (880-51824-3), T-1 (4') (880-51824-4), T-2 (0-1') (880-51824-6), T-2 (2') (880-51824-7), T-2 (3') (880-51824-8) and T-2 (4') (880-51824-9). Elevated reporting limits (RLs) are provided.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-97527 and analytical batch 880-97490 recovered outside control limits for the following analytes: Ethylbenzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97527 and analytical batch 880-97490 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-1 (3') (880-51824-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS), matrix spike (MS), AND/OR matrix spike duplicate (MSD) associated with preparation batch 880-97575 and analytical batch 880-97570. Percent recoveries are based on the amount spiked.

Eurofins Midland

12/13/2024

Case Narrative

Client: Carmona Resources Job ID: 880-51824-1

Project: Lusitano 27 CTB 3

Job ID: 880-51824-1 (Continued)

Eurofins Midland

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97590 and analytical batch 880-97568 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: T-2 (0-1') (880-51824-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97199 and analytical batch 880-97226 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-97215 and analytical batch 880-97228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-51824-1), T-1 (2') (880-51824-2) and T-1 (4') (880-51824-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-2 (2') (880-51824-7) and T-2 (4') (880-51824-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Client Sample ID: T-1 (0-1')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	1.23		1.00		mg/Kg		12/06/24 08:28	12/06/24 14:16	500
Toluene	18.1		1.00		mg/Kg		12/06/24 08:28	12/06/24 14:16	500
Ethylbenzene	4.68		1.00		mg/Kg		12/06/24 08:28	12/06/24 14:16	500
m-Xylene & p-Xylene	75.2		2.00		mg/Kg		12/06/24 08:28	12/06/24 14:16	500
o-Xylene	23.2		1.00		mg/Kg		12/06/24 08:28	12/06/24 14:16	50
Xylenes, Total	98.4		2.00		mg/Kg		12/06/24 08:28	12/06/24 14:16	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				12/06/24 08:28	12/06/24 14:16	50
1,4-Difluorobenzene (Surr)	98		70 - 130				12/06/24 08:28	12/06/24 14:16	50
Method: TAL SOP Total BTEX Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	122		2.00		mg/Kg			12/06/24 14:16	
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)						
Michiga. Offoro ou to Min - Dic									
	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	• •	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/06/24 14:11	Dil Fa
Analyte	Result 5610		RL 49.7	MDL		D	Prepared		Dil Fa
Analyte Total TPH Method: SW846 8015B NM - D	Result 5610		RL 49.7			<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result 5610	nics (DRO)	RL 49.7		mg/Kg		<u> </u>	12/06/24 14:11	

Diesel Range Organics (Over	3640		49.7	mg/Kg	12/05/24 16:25	12/06/24 14:11	1
C10-C28)							
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg	12/05/24 16:25	12/06/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130		12/05/24 16:25	12/06/24 14:11	1
o-Terphenyl	111		70 - 130		12/05/24 16:25	12/06/24 14:11	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.7		9.90		mg/Kg			12/06/24 14:59	1

Client Sample ID: T-1 (2') Lab Sample ID: 880-51824-2 Date Collected: 11/26/24 00:00 **Matrix: Solid**

Date Received: 12/05/24 11:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.895	H *+ *1	0.505		mg/Kg		12/11/24 11:43	12/11/24 14:39	250
Toluene	8.82	H *+ *1	0.505		mg/Kg		12/11/24 11:43	12/11/24 14:39	250
Ethylbenzene	5.95	H *+ *1	0.505		mg/Kg		12/11/24 11:43	12/11/24 14:39	250
m-Xylene & p-Xylene	36.2	H *+ *1	1.01		mg/Kg		12/11/24 11:43	12/11/24 14:39	250
o-Xylene	20.7	H *+ *1	0.505		mg/Kg		12/11/24 11:43	12/11/24 14:39	250
Xylenes, Total	56.9	H *+ *1	1.01		mg/Kg		12/11/24 11:43	12/11/24 14:39	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				12/11/24 11:43	12/11/24 14:39	250
1.4-Difluorobenzene (Surr)	82		70 - 130				12/11/24 11:43	12/11/24 14:39	250

SDG: Eddy County New Mexico

Project/Site: Lusitano 27 CTB 3 Client Sample ID: T-1 (2')

Client: Carmona Resources

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	72.6		1.01		mg/Kg			12/11/24 14:39	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6190		49.8		mg/Kg			12/06/24 14:28	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1730		49.8		mg/Kg		12/05/24 16:25	12/06/24 14:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	4460		49.8		mg/Kg		12/05/24 16:25	12/06/24 14:28	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130				12/05/24 16:25	12/06/24 14:28	1
o-Terphenyl	112		70 - 130				12/05/24 16:25	12/06/24 14:28	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		9.90		mg/Kg			12/06/24 15:04	

Client Sample ID: T-1 (3') Lab Sample ID: 880-51824-3 Date Collected: 11/26/24 00:00 **Matrix: Solid**

Date Received: 12/05/24 11:10

Released to Imaging: 7/31/2025 11:45:40 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996		mg/Kg		12/09/24 15:36	12/10/24 04:53	50
Toluene	0.130		0.0996		mg/Kg		12/09/24 15:36	12/10/24 04:53	50
Ethylbenzene	<0.0996	U	0.0996		mg/Kg		12/09/24 15:36	12/10/24 04:53	50
m-Xylene & p-Xylene	3.20		0.199		mg/Kg		12/09/24 15:36	12/10/24 04:53	50
o-Xylene	3.07		0.101		mg/Kg		12/10/24 14:39	12/10/24 22:13	50
Xylenes, Total	4.14		0.199		mg/Kg		12/09/24 15:36	12/10/24 04:53	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/06/24 08:28	12/06/24 14:36	500
Method: TAL SOP Total BTEX -			70 - 130			_	12/06/24 08:28	12/06/24 14:36	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Cald	culation Qualifier	70 - 130 RL 0.199	MDL	Unit mg/Kg	<u>D</u>	12/06/24 08:28 Prepared	12/06/24 14:36 Analyzed 12/10/24 22:13	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Calc	Qualifier	RL 0.199	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc Result 6.40	Qualifier	RL 0.199	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese	Total BTEX Calc Result 6.40	Qualifier ics (DRO) (RL 0.199		mg/Kg	_ =	Prepared	Analyzed 12/10/24 22:13	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Total BTEX Calc Result 6.40 el Range Organ Result 694	Qualifier ics (DRO) ((Qualifier	RL 0.199 GC) RL 49.9		mg/Kg	_ =	Prepared	Analyzed 12/10/24 22:13 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Total BTEX Calc Result 6.40 el Range Organ Result 694 sel Range Orga	Qualifier ics (DRO) ((Qualifier	RL 0.199 GC) RL 49.9		mg/Kg Unit mg/Kg	_ =	Prepared	Analyzed 12/10/24 22:13 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Total BTEX Calc Result 6.40 el Range Organ Result 694 sel Range Orga	Qualifier ics (DRO) (Qualifier nics (DRO)	RL 0.199 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/10/24 22:13 Analyzed 12/06/24 14:44	Dil Fac

Client: Carmona Resources SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

Client Sample ID: T-1 (3') Date Collected: 11/26/24 00:00 Lab Sample ID: 880-51824-3

Date Received: 12/05/24 11:10

	Matrix: Solid	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 14:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	101		70 - 130				12/05/24 16:25	12/06/24 14:44	
o-Terphenyl	87		70 ₋ 130				12/05/24 16:25	12/06/24 14:44	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 10.1 12/06/24 15:21 Chloride 110 mg/Kg

Client Sample ID: T-1 (4') Lab Sample ID: 880-51824-4 Date Collected: 11/26/24 00:00 **Matrix: Solid**

Date Received: 12/05/24 11:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.101	U	0.101		mg/Kg		12/09/24 15:36	12/10/24 05:14	50
Toluene	2.32		1.01		mg/Kg		12/06/24 08:28	12/06/24 14:57	500
Ethylbenzene	1.27		0.101		mg/Kg		12/09/24 15:36	12/10/24 05:14	50
m-Xylene & p-Xylene	16.5		2.02		mg/Kg		12/06/24 08:28	12/06/24 14:57	500
o-Xylene	3.20		1.01		mg/Kg		12/06/24 08:28	12/06/24 14:57	500
Xylenes, Total	19.7		2.02		mg/Kg		12/06/24 08:28	12/06/24 14:57	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/06/24 08:28	12/06/24 14:57	500
1,4-Difluorobenzene (Surr)	98		70 - 130	12/06/24 08:28	12/06/24 14:57	500

Method: TAL SOP Total BTEX - To	tal BTEX Calculation						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	23.3	2.02	mg/Kg			12/10/24 05:14	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO)	(GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3910	50.0	mg/Kg			12/06/24 15:00	1

· · • · · · · · · · · · · · · · · · ·					
Total TPH	3910	50.0	mg/Kg	12/06/24 15:00	1
Mothod: SW946 9045P NM Diocol	Pango Organico (DPO)	(GC)			

Method: 344046 of 13B MM - Dies	sei Kange Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1190	50.0	mg/Kg		12/05/24 16:25	12/06/24 15:00	1
(GRO)-C6-C10							
Diesel Range Organics (Over	2720	50.0	mg/Kg		12/05/24 16:25	12/06/24 15:00	1
C10-C28)							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	12/05/24 16:25	12/06/24 15:00	1
o-Ternhenyl	130		70 - 130	12/05/24 16:25	12/06/24 15:00	1

50.0

mg/Kg

12/05/24 16:25

<50.0 U

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		10.1		mg/Kg			12/06/24 15:26	1

Eurofins Midland

12/06/24 15:00

Oil Range Organics (Over C28-C36)

Client Sample Results

Client: Carmona Resources

Job ID: 880-51824-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Client Sample ID: T-1 (5')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10 Lab Sample ID: 880-51824-5

12/06/24 08:21

12/06/24 12:18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.501	U H *+ *1	0.501		mg/Kg		12/11/24 11:43	12/11/24 14:59	250
Toluene	0.607	H *+ *1	0.501		mg/Kg		12/11/24 11:43	12/11/24 14:59	250
Ethylbenzene	<0.501	U H *+ *1	0.501		mg/Kg		12/11/24 11:43	12/11/24 14:59	250
m-Xylene & p-Xylene	4.06	H *+ *1	1.00		mg/Kg		12/11/24 11:43	12/11/24 14:59	250
o-Xylene	1.37	H *+ *1	0.501		mg/Kg		12/11/24 11:43	12/11/24 14:59	250
Xylenes, Total	5.43	H *+ *1	1.00		mg/Kg		12/11/24 11:43	12/11/24 14:59	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/11/24 11:43	12/11/24 14:59	250
1,4-Difluorobenzene (Surr)	103		70 - 130				12/11/24 11:43	12/11/24 14:59	250

 Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 6.04
 1.00
 mg/Kg
 12/11/24 14:59
 1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacTotal TPH61.750.0mg/Kg12/06/24 12:181

Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 12:18	1
Diesel Range Organics (Over C10-C28)	61.7		50.0		mg/Kg		12/06/24 08:21	12/06/24 12:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				12/06/24 08:21	12/06/24 12:18	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		10.1		mg/Kg			12/06/24 15:31	1

70 - 130

92

Client Sample ID: T-2 (0-1')

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.545		0.101		mg/Kg		12/09/24 15:36	12/10/24 05:34	50
Toluene	10.9		0.998		mg/Kg		12/06/24 08:28	12/06/24 15:17	500
Ethylbenzene	2.79		0.998		mg/Kg		12/06/24 08:28	12/06/24 15:17	500
m-Xylene & p-Xylene	59.3		2.00		mg/Kg		12/06/24 08:28	12/06/24 15:17	500
o-Xylene	18.1		0.998		mg/Kg		12/06/24 08:28	12/06/24 15:17	500
Xylenes, Total	77.4		2.00		mg/Kg		12/06/24 08:28	12/06/24 15:17	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				12/06/24 08:28	12/06/24 15:17	500
1,4-Difluorobenzene (Surr)	97		70 - 130				12/06/24 08:28	12/06/24 15:17	500

Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Client Sample ID: T-2 (0-1')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-6

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	91.6		2.00		mg/Kg			12/10/24 05:34	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5960		49.8		mg/Kg			12/06/24 12:34	1
Gasoline Range Organics	1930		49.8		mg/Kg		12/06/24 08:21	12/06/24 12:34	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
(GRO)-C6-C10									
Diesel Range Organics (Over	4030		49.8		mg/Kg		12/06/24 08:21	12/06/24 12:34	1
0.40, 0.00									
C10-C28)	-10.0		40.0		m = /1/ =		10/06/04 00:04	10/06/04 10:04	4
C10-C28) Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 12:34	1
· · · · · · · · · · · · · · · · · · ·	<49.8 %Recovery		49.8 <i>Limits</i>		mg/Kg		12/06/24 08:21 Prepared	12/06/24 12:34 Analyzed	1 Dil Fac
Oil Range Organics (Over C28-C36)					mg/Kg				Dil Fac

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 10.1 12/06/24 15:45 Chloride 91.2 mg/Kg Client Sample ID: T-2 (2') Lab Sample ID: 880-51824-7

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.330		0.101		mg/Kg		12/09/24 15:36	12/10/24 05:55	50
Toluene	2.37		1.01		mg/Kg		12/06/24 08:28	12/06/24 15:38	50
Ethylbenzene	3.08		0.101		mg/Kg		12/09/24 15:36	12/10/24 05:55	5
m-Xylene & p-Xylene	14.8		2.02		mg/Kg		12/06/24 08:28	12/06/24 15:38	50
o-Xylene	2.72		1.01		mg/Kg		12/06/24 08:28	12/06/24 15:38	50
Xylenes, Total	17.5		2.02		mg/Kg		12/06/24 08:28	12/06/24 15:38	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				12/06/24 08:28	12/06/24 15:38	50
• '	97 - Total BTEX Cald	culation	70 - 130				12/06/24 08:28	12/06/24 15:38	50
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	70 - 130 RL 2.02	MDL	Unit mg/Kg	<u>D</u>	12/06/24 08:28 Prepared	12/06/24 15:38 Analyzed 12/10/24 05:55	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result 23.3	Qualifier	RL 2.02	MDL		<u>D</u>		Analyzed	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	- Total BTEX Cald Result 23.3 sel Range Organ	Qualifier	RL 2.02			<u>D</u>		Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	- Total BTEX Cald Result 23.3 sel Range Organ	Qualifier ics (DRO) (RL 2.02		mg/Kg		Prepared	Analyzed 12/10/24 05:55	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies	- Total BTEX Cald Result 23.3 sel Range Organ Result 8240	Qualifier ics (DRO) (Qualifier	RL 2.02 GC) RL 49.9		mg/Kg		Prepared	Analyzed 12/10/24 05:55 Analyzed	Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Di	- Total BTEX Cald Result 23.3 sel Range Organ Result 8240 sesel Range Orga	Qualifier ics (DRO) (Qualifier	RL 2.02 GC) RL 49.9	MDL	mg/Kg		Prepared	Analyzed 12/10/24 05:55 Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Cald Result 23.3 sel Range Organ Result 8240 sesel Range Orga	Qualifier ics (DRO) (Qualifier nics (DRO)	RL 2.02 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/10/24 05:55 Analyzed 12/06/24 12:51	Dil Fa

Eurofins Midland

Matrix: Solid

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Client Sample Results

Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Client Sample ID: T-2 (2')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130				12/06/24 08:21	12/06/24 12:51	1
o-Terphenyl	153	S1+	70 - 130				12/06/24 08:21	12/06/24 12:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 179 9.96 12/06/24 15:50 mg/Kg

Client Sample ID: T-2 (3')

Lab Sample ID: 880-51824-8

Matrix: Solid

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Analyto	Desuit	Qualifier	RL	MDL	Linit	D	Prepared	Analyzed	Dil Fa
Analyte Benzene	<0.0998		0.0998	MIDL			12/09/24 15:36	12/10/24 06:16	
		U			mg/Kg				
Toluene	0.383		0.0998		mg/Kg		12/09/24 15:36	12/10/24 06:16	5
Ethylbenzene	0.767		0.0998		mg/Kg		12/09/24 15:36	12/10/24 06:16	5
m-Xylene & p-Xylene	3.93		0.200		mg/Kg		12/09/24 15:36	12/10/24 06:16	5
o-Xylene	12.4	Н	0.100		mg/Kg		12/10/24 14:39	12/11/24 00:44	5
Xylenes, Total	5.53		0.200		mg/Kg		12/09/24 15:36	12/10/24 06:16	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				12/06/24 08:28	12/06/24 15:58	50
1,4-Difluorobenzene (Surr)	96		70 - 130				12/06/24 08:28	12/06/24 15:58	50
Method: TAL SOP Total BTEX - T	otal BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	17.5		0.200		mg/Kg			12/11/24 00:44	
Method: SW846 8015 NM - Diese	l Banga Organ	ica (DBO) (20)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	305		50.0		mg/Kg			12/06/24 13:23	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
		()							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared 12/06/24 08:21	Analyzed 12/06/24 13:23	Dil Fa
	Result	Qualifier	RL	MDL		<u>D</u>			
Gasoline Range Organics	Result	Qualifier	RL	MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 52.4	Qualifier	RL 50.0	MDL	mg/Kg	<u>D</u>	12/06/24 08:21	12/06/24 13:23	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 52.4		RL 50.0	MDL	mg/Kg	<u>D</u>	12/06/24 08:21	12/06/24 13:23	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 52.4 253	U	RL 50.0	MDL	mg/Kg	<u>D</u>	12/06/24 08:21 12/06/24 08:21	12/06/24 13:23 12/06/24 13:23	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 52.4 253 <50.0	U	FL 50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	12/06/24 08:21 12/06/24 08:21 12/06/24 08:21	12/06/24 13:23 12/06/24 13:23 12/06/24 13:23	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	12/06/24 08:21 12/06/24 08:21 12/06/24 08:21 Prepared	12/06/24 13:23 12/06/24 13:23 12/06/24 13:23 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 52.4 253 <50.0 %Recovery 111 104	U Qualifier	FL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg	<u>D</u>	12/06/24 08:21 12/06/24 08:21 12/06/24 08:21 Prepared 12/06/24 08:21	12/06/24 13:23 12/06/24 13:23 12/06/24 13:23 Analyzed 12/06/24 13:23	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	U Qualifier	FL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	12/06/24 08:21 12/06/24 08:21 12/06/24 08:21 Prepared 12/06/24 08:21	12/06/24 13:23 12/06/24 13:23 12/06/24 13:23 Analyzed 12/06/24 13:23	Dil Fa

Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico Client Sample ID: T-2 (4')

Lab Sample ID: 880-51824-9 Matrix: Solid

12/06/24 08:21 12/06/24 13:39

Date Collected: 11/26/24 00:00

Client: Carmona Resources

Date Received: 12/05/24 11:10	Volatile Organic Compounds (GC)								
Method: SW846 8021B - Volatile Or	ganic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996		mg/Kg		12/09/24 15:36	12/10/24 06:36	50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996		mg/Kg		12/09/24 15:36	12/10/24 06:36	50
Toluene	1.19		1.00		mg/Kg		12/06/24 08:28	12/06/24 16:19	500
Ethylbenzene	0.931		0.0996		mg/Kg		12/09/24 15:36	12/10/24 06:36	50
m-Xylene & p-Xylene	8.52		2.00		mg/Kg		12/06/24 08:28	12/06/24 16:19	500
o-Xylene	1.57		1.00		mg/Kg		12/06/24 08:28	12/06/24 16:19	500
Xylenes, Total	10.1		2.00		mg/Kg		12/06/24 08:28	12/06/24 16:19	500

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120	70 - 130	12/06/24 08:28	12/06/24 16:19	500
1,4-Difluorobenzene (Surr)	96	70 - 130	12/06/24 08:28	12/06/24 16:19	500

Method: TAL SOP Total BTEX - Tot	tal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.2		2.00		mg/Kg			12/10/24 06:36	

Method: SW846 8015 NM - Diesel Ra	inge Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2400	49.9	mg/K	g		12/06/24 13:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	689		49.9		mg/Kg		12/06/24 08:21	12/06/24 13:39	1
Diesel Range Organics (Over C10-C28)	1710		49.9		mg/Kg		12/06/24 08:21	12/06/24 13:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				12/06/24 08:21	12/06/24 13:39	1

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		9.92		mg/Kg			12/06/24 16:11	1

70 - 130

133 S1+

Client Sample ID: T-2 (5') Lab Sample ID: 880-51824-10

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/05/24 14:07	12/05/24 22:14	1
Toluene	0.0140		0.00202		mg/Kg		12/05/24 14:07	12/05/24 22:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/05/24 14:07	12/05/24 22:14	1
m-Xylene & p-Xylene	0.0497		0.00404		mg/Kg		12/05/24 14:07	12/05/24 22:14	1
o-Xylene	0.0135		0.00202		mg/Kg		12/05/24 14:07	12/05/24 22:14	1
Xylenes, Total	0.0632		0.00404		mg/Kg		12/05/24 14:07	12/05/24 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				12/05/24 14:07	12/05/24 22:14	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/05/24 14:07	12/05/24 22:14	1

Eurofins Midland

Matrix: Solid

Client Sample Results

Client: Carmona Resources Job ID: 880-51824-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

Client Sample ID: T-2 (5') Lab Sample ID: 880-51824-10

Date Collected: 11/26/24 00:00 Matrix: Solid Date Received: 12/05/24 11:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0772		0.00404		mg/Kg			12/05/24 22:14	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	156		49.7		mg/Kg			12/06/24 13:56	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		12/06/24 08:21	12/06/24 13:56	
(GRO)-C6-C10									
Diesel Range Organics (Over	156		49.7		mg/Kg		12/06/24 08:21	12/06/24 13:56	
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/24 08:21	12/06/24 13:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130				12/06/24 08:21	12/06/24 13:56	
o-Terphenyl	94		70 - 130				12/06/24 08:21	12/06/24 13:56	

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Chloride 69.6 10.0 mg/Kg 12/06/24 16:16 Client Sample ID: T-3 (0-1') Lab Sample ID: 880-51824-11

Date Collected: 11/26/24 00:00

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 22:34	1
Toluene	0.00625		0.00200		mg/Kg		12/05/24 14:07	12/05/24 22:34	1
Ethylbenzene	0.00365		0.00200		mg/Kg		12/05/24 14:07	12/05/24 22:34	1
m-Xylene & p-Xylene	0.0964		0.00400		mg/Kg		12/05/24 14:07	12/05/24 22:34	1
o-Xylene	0.0375		0.00200		mg/Kg		12/05/24 14:07	12/05/24 22:34	1
Xylenes, Total	0.134		0.00400		mg/Kg		12/05/24 14:07	12/05/24 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				12/05/24 14:07	12/05/24 22:34	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/05/24 14:07	12/05/24 22:34	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.144		0.00400		mg/Kg			12/05/24 22:34	1

Total IPH	490		49.0		mg/kg			12/06/24 14:11	ı
Method: SW846 8015B NM - Diesel Range	Orga	nics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 14:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	490		49.8		mg/Kg		12/06/24 08:21	12/06/24 14:11	1
	Analyte Gasoline Range Organics (GRO)-C6-C10	Method: SW846 8015B NM - Diesel Range Organics Gasoline Range Organics (GRO)-C6-C10 Result 49.8	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Gasoline Range Organics (GRO)-C6-C10	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)AnalyteResultQualifierRLGasoline Range Organics<49.8	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)AnalyteResultQualifierRLMDLGasoline Range Organics<49.8	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Gasoline Range Organics <49.8	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)AnalyteResult Gasoline Range OrganicsQualifierRLMDL MDLUnit mg/KgGasoline Range Organics<49.8	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Gasoline Range Organics <49.8	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <49.8

RL

MDL Unit

D

Prepared

C10-C28)

Analyte

Eurofins Midland

Matrix: Solid

Dil Fac

Analyzed 12/06/24 14:11

Result Qualifier

Job ID: 880-51824-1

SDG: Eddy County New Mexico

Client Sample ID: T-3 (0-1')

Client: Carmona Resources

Project/Site: Lusitano 27 CTB 3

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/06/24 08:21	12/06/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			12/06/24 08:21	12/06/24 14:11	1
o-Terphenyl	113		70 - 130			12/06/24 08:21	12/06/24 14:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Chloride 10.0 12/06/24 16:32 80.1 mg/Kg

Client Sample ID: T-3 (2') Lab Sample ID: 880-51824-12 Date Collected: 11/26/24 00:00 **Matrix: Solid**

Date Received: 12/05/24 11:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/05/24 22:55	1
Toluene	0.00824		0.00199		mg/Kg		12/05/24 14:07	12/05/24 22:55	1
Ethylbenzene	0.00245		0.00199		mg/Kg		12/05/24 14:07	12/05/24 22:55	1
m-Xylene & p-Xylene	0.0629		0.00398		mg/Kg		12/05/24 14:07	12/05/24 22:55	1
o-Xylene	0.0170		0.00199		mg/Kg		12/05/24 14:07	12/05/24 22:55	1
Xylenes, Total	0.0799		0.00398		mg/Kg		12/05/24 14:07	12/05/24 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				12/05/24 14:07	12/05/24 22:55	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/05/24 14:07	12/05/24 22:55	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0906		0.00398		mg/Kg			12/05/24 22:55	1
: Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) ((30)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	180		50.0		mg/Kg			12/06/24 14:28	1
Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 14:28	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	180		50.0		mg/Kg		12/06/24 08:21	12/06/24 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				12/06/24 08:21	12/06/24 14:28	1
o-Terphenyl	104		70 - 130				12/06/24 08:21	12/06/24 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 110 9.90 mg/Kg 12/06/24 16:37

Job ID: 880-51824-1

Client: Carmona Resources SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

Client Sample ID: T-3 (3')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-13

Matrix: Solid

						Prepared		
< 0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
0.00206		0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
0.00486		0.00399		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
0.00486		0.00399		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
100		70 - 130				12/05/24 14:07	12/05/24 23:15	1
95		70 - 130				12/05/24 14:07	12/05/24 23:15	1
	0.00206 <0.00200 0.00486 <0.00200 0.00486 %Recovery	0.00206 <0.00200 U 0.00486 <0.00200 U 0.00486 %Recovery Qualifier 100	0.00206 0.00200 <0.00200	0.00206 0.00200 <0.00200	0.00206 0.00200 mg/Kg <0.00200	0.00206 0.00200 mg/Kg <0.00200	0.00206 0.00200 mg/Kg 12/05/24 14:07 <0.00200	0.00206 0.00200 mg/Kg 12/05/24 14:07 12/05/24 23:15 <0.00200

Total BTEX 0.00692 0.00399 mg/Kg 12/05/24 23:15

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 12/06/24 14:44 mg/Kg

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/06/24 08:21	12/06/24 14:44	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/06/24 08:21	12/06/24 14:44	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/24 08:21	12/06/24 14:44	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 97 70 - 130 12/06/24 08:21 12/06/24 14:44 89 70 - 130 12/06/24 08:21 12/06/24 14:44 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 9.94 Chloride 99.3 mg/Kg 12/06/24 16:43

Client Sample ID: T-3 (4')

Lab Sample ID: 880-51824-14 Date Collected: 11/26/24 00:00

Date Received: 12/05/24 11:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/05/24 14:07	12/05/24 23:36	1
Toluene	0.00321		0.00202		mg/Kg		12/05/24 14:07	12/05/24 23:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/05/24 14:07	12/05/24 23:36	1
m-Xylene & p-Xylene	0.00535		0.00403		mg/Kg		12/05/24 14:07	12/05/24 23:36	1
o-Xylene	0.00304		0.00202		mg/Kg		12/05/24 14:07	12/05/24 23:36	1
Xylenes, Total	0.00839		0.00403		mg/Kg		12/05/24 14:07	12/05/24 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				12/05/24 14:07	12/05/24 23:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/05/24 14:07	12/05/24 23:36	1

Eurofins Midland

Matrix: Solid

Client Sample ID: T-3 (4') Date Collected: 11/26/24 00:00

Client Sample Results

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

Job ID: 880-51824-1 SDG: Eddy County New Mexico

Lab	Sam	ple	ID:	88	0-	51	82	24-	14	
								_		

Matrix: Solid

Method: TAL SOP Total BTEX - T		Qualifier	RL	MDL	l lmi4	D	Duamawad	Amalumad	Dil Fac
Analyte		Quaimer		MIDL			Prepared	Analyzed	DII Fac
Total BTEX	0.0116		0.00403		mg/Kg			12/05/24 23:36	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 15:00	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 15:00	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 15:00	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				12/06/24 08:21	12/06/24 15:00	1
o-Terphenyl	89		70 - 130				12/06/24 08:21	12/06/24 15:00	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		10.0		mg/Kg			12/06/24 16:48	1

Surrogate Summary

Client: Carmona Resources

Job ID: 880-51824-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51811-A-1-B MS	Matrix Spike	110	98	
880-51811-A-1-C MSD	Matrix Spike Duplicate	104	96	
380-51824-1	T-1 (0-1')	143 S1+	98	
380-51824-2	T-1 (2')	142 S1+	82	
380-51824-3	T-1 (3')	104	98	
380-51824-4	T-1 (4')	111	98	
880-51824-5	T-1 (5')	115	103	
380-51824-6	T-2 (0-1')	139 S1+	97	
880-51824-7	T-2 (2')	112	97	
380-51824-8	T-2 (3')	108	96	
880-51824-9	T-2 (4')	120	96	
380-51824-10	T-2 (5')	82	88	
880-51824-11	T-3 (0-1')	80	93	
380-51824-12	T-3 (2')	80	85	
380-51824-13	T-3 (3')	100	95	
380-51824-14	T-3 (4')	99	100	
380-51850-A-1-B MS	Matrix Spike	110	100	
380-51850-A-1-C MSD	Matrix Spike Duplicate	106	102	
380-51916-A-1-C MS	Matrix Spike	116	103	
380-51916-A-1-D MSD	Matrix Spike Duplicate	107	102	
880-51979-A-1-B MS	Matrix Spike	93	95	
880-51979-A-1-C MSD	Matrix Spike Duplicate	102	99	
90-7452-A-1-M MS	Matrix Spike	110	110	
90-7452-A-1-N MSD	Matrix Spike Duplicate	119	110	
	Matrix Spike			
890-7453-A-1-A MS	•	104	103	
390-7453-A-1-B MSD	Matrix Spike Duplicate	110	105	
CS 880-97190/1-A	Lab Control Sample	102	105	
CS 880-97217/1-A	Lab Control Sample	108	103	
_CS 880-97450/1-A	Lab Control Sample	109	101	
CS 880-97527/1-A	Lab Control Sample	104	97	
.CS 880-97575/1-A	Lab Control Sample	109	102	
_CS 880-97590/1-A	Lab Control Sample	102	99	
CSD 880-97190/2-A	Lab Control Sample Dup	98	106	
_CSD 880-97217/2-A	Lab Control Sample Dup	108	101	
CSD 880-97450/2-A	Lab Control Sample Dup	110	100	
CSD 880-97527/2-A	Lab Control Sample Dup	104	103	
_CSD 880-97575/2-A	Lab Control Sample Dup	110	103	
_CSD 880-97590/2-A	Lab Control Sample Dup	103	98	
MB 880-97190/5-A	Method Blank	221 S1+	142 S1+	
MB 880-97217/5-A	Method Blank	99	96	
MB 880-97372/5-A	Method Blank	100	94	
MB 880-97450/5-A	Method Blank	97	94	
MB 880-97527/5-A	Method Blank	168 S1+	119	
MB 880-97575/5-A	Method Blank	110	101	
MB 880-97590/5-A	Method Blank	119	87	

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Ac
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-51824-1	T-1 (0-1')	158 S1+	111	
380-51824-2	T-1 (2')	164 S1+	112	
380-51824-3	T-1 (3')	101	87	
380-51824-4	T-1 (4')	142 S1+	130	
380-51824-5	T-1 (5')	98	92	
380-51824-6	T-2 (0-1')	168 S1+	73	
380-51824-7	T-2 (2')	182 S1+	153 S1+	
380-51824-8	T-2 (3')	111	104	
380-51824-9	T-2 (4')	134 S1+	133 S1+	
380-51824-10	T-2 (5')	98	94	
380-51824-11	T-3 (0-1')	115	113	
380-51824-12	T-3 (2')	110	104	
880-51824-13	T-3 (3')	97	89	
880-51824-14	T-3 (4')	96	89	
880-51849-A-1-F MS	Matrix Spike	97	85	
880-51849-A-1-G MSD	Matrix Spike Duplicate	98	84	
880-51849-A-5-D MS	Matrix Spike	106	100	
880-51849-A-5-E MSD	Matrix Spike Duplicate	105	99	
CS 880-97199/2-A	Lab Control Sample	114	102	
_CS 880-97215/2-A	Lab Control Sample	98	98	
_CSD 880-97199/3-A	Lab Control Sample Dup	106	97	
CSD 880-97215/3-A	Lab Control Sample Dup	107	110	
MB 880-97199/1-A	Method Blank	96	77	
MB 880-97215/1-A	Method Blank	104	98	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97190/5-A

Lab Sample ID: LCS 880-97190/1-A

Matrix: Solid Analysis Batch: 97035 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97190

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	221	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1
1.4-Difluorobenzene (Surr)	142	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid Prep Batch: 97190 **Analysis Batch: 97035** LCS LCS Spike Added Result Qualifier Unit %Rec Limits

Analyte Benzene 0.100 0.1111 mg/Kg 111 70 - 130 Toluene 0.100 0.1023 mg/Kg 102 70 - 130 0.100 Ethylbenzene 0.1021 mg/Kg 102 70 - 130 70 - 130 0.200 0.2250 m-Xylene & p-Xylene mg/Kg 113 0.100 0.1084 108 o-Xylene mg/Kg 70 - 130

LCS LCS

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

Lab Sample ID: LCSD 880-97190/2-A

Matrix: Solid Analysis Batch: 97035

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 97190

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1043 mg/Kg 104 70 - 130 6 35 Toluene 0.100 0.09983 mg/Kg 100 70 - 130 2 35 Ethylbenzene 0.100 0.08655 mg/Kg 87 70 - 130 16 35 0.200 m-Xylene & p-Xylene 0.2103 mg/Kg 105 70 - 130 35 0.100 0.1029 o-Xylene mg/Kg 103 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-51811-A-1-B MS

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 97190

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0990	0.09133		mg/Kg		92	70 - 130	
Toluene	0.00326		0.0990	0.09595		mg/Kg		94	70 - 130	

Client: Carmona Resources Job ID: 880-51824-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

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

Lab Sample ID: 880-51811-A-1-B MS

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97190

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00201	U	0.0990	0.09222		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.00422		0.198	0.2097		mg/Kg		104	70 - 130
o-Xylene	<0.00201	U	0.0990	0.1005		mg/Kg		102	70 - 130

MS MS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97190

Lab Sample ID: 880-51811-A-1-C MSD **Matrix: Solid**

Analysis Batch: 97035

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.101	0.09029		mg/Kg		90	70 - 130	1	35
Toluene	0.00326		0.101	0.08989		mg/Kg		86	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.101	0.08013		mg/Kg		79	70 - 130	14	35
m-Xylene & p-Xylene	0.00422		0.202	0.1919		mg/Kg		93	70 - 130	9	35
o-Xylene	<0.00201	U	0.101	0.09476		mg/Kg		94	70 - 130	6	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: MB 880-97217/5-A

Matrix: Solid

Analysis Batch: 97231

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

Prep Batch: 97217

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:28	12/06/24 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:28	12/06/24 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:28	12/06/24 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/06/24 08:28	12/06/24 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:28	12/06/24 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/06/24 08:28	12/06/24 11:46	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/06/24 08:28	12/06/24 11:46	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/06/24 08:28	12/06/24 11:46	1

Lab Sample ID: LCS 880-97217/1-A

Matrix: Solid

Analysis Batch: 97231

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97217

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	
Toluene	0.100	0.1039		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2222		mg/Kg		111	70 - 130	

Client: Carmona Resources

Job ID: 880-51824-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

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

Lab Sample ID: LCS 880-97217/1-A Client Sample ID: Lab Control Sample

Matrix: Solid
Analysis Batch: 97231

Spike LCS LCS

*Rec.

Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.1245 0.100 125 70 - 130 o-Xylene mg/Kg

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 108
 70 - 130

 1,4-Difluorobenzene (Surr)
 103
 70 - 130

Lab Sample ID: LCSD 880-97217/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 97231 Prep Batch: 97217

Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1035 mg/Kg 103 70 - 130 0 35 Toluene 0.100 0.1050 mg/Kg 105 70 - 130 35 Ethylbenzene 0.100 0.1133 mg/Kg 113 70 - 130 35 m-Xylene & p-Xylene 0.200 0.2262 mg/Kg 113 70 - 130 35 0.100 0.1276 128 70 - 130 2 35 o-Xylene mg/Kg

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 108
 70 - 130

 1,4-Difluorobenzene (Surr)
 101
 70 - 130

Lab Sample ID: 880-51850-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 97231 Prep Batch: 97217

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Benzene <0.00200 U 0.100 0.09916 mg/Kg 99 70 - 130 Toluene <0.00200 U 0.100 0.1053 mg/Kg 105 70 - 130 Ethylbenzene <0.00200 U 0.100 0.1140 mg/Kg 114 70 - 130 m-Xylene & p-Xylene < 0.00399 U 0.200 0.2252 mg/Kg 113 70 - 130 o-Xylene <0.00200 U 0.100 0.1282 mg/Kg 128 70 - 130

 MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 110
 70 - 130

 1,4-Difluorobenzene (Surr)
 100
 70 - 130

Lab Sample ID: 880-51850-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 97231 Prep Batch: 97217

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1061		mg/Kg		106	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.1133		mg/Kg		113	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2231		mg/Kg		112	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1264		mg/Kg		126	70 - 130	1	35

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Job ID: 880-51824-1

SDG: Eddy County New Mexico

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

Lab Sample ID: 880-51850-A-1-C MSD

Matrix: Solid

Analysis Batch: 97231

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97217

MSD MSD

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

Lab Sample ID: MB 880-97372/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 97353

Prep Type: Total/NA

Prep Batch: 97372

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <0.00200 U 0.00200 12/09/24 09:51 12/09/24 12:13 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 12/09/24 09:51 12/09/24 12:13 Ethylbenzene <0.00200 U 0.00200 12/09/24 09:51 12/09/24 12:13 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/09/24 09:51 12/09/24 12:13 o-Xylene <0.00200 U 0.00200 mg/Kg 12/09/24 09:51 12/09/24 12:13 Xylenes, Total <0.00400 U 0.00400 mg/Kg 12/09/24 09:51 12/09/24 12:13

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	12/09/24 09:51	12/09/24 12:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/09/24 09:51	12/09/24 12:13	1

Lab Sample ID: MB 880-97450/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 97353

Prep Type: Total/NA

Prep Batch: 97450

мв мв

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
<0.00400	U	0.00400		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
<0.00400	U	0.00400		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200	Result Qualifier	<0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00400 <0.00400 U 0.00200	<0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00400 <0.00200 U 0.00200	<0.00200	<0.00200	<0.00200	<0.00200

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	12/09/24 15:36	12/09/24 23:12	1
1,4-Difluorobenzene (Surr)	94	70 ₋ 130	12/09/24 15:36	12/09/24 23:12	1

Lab Sample ID: LCS 880-97450/1-A

Released to Imaging: 7/31/2025 11:45:40 AM

Matrix: Solid

Analysis Batch: 97353

Client Sample ID:	Lab	Control	Sample
	_		

Prep Type: Total/NA

Prep Batch: 97450

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	
Toluene	0.100	0.1071		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.1139		mg/Kg		114	70 - 130	
m-Xylene & p-Xylene	0.200	0.2271		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1278		mg/Kg		128	70 - 130	

Job ID: 880-51824-1 SDG: Eddy County New Mexico

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

LCS LCS

Lab Sample ID: LCS 880-97450/1-A

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97450

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97450

Lab Sample ID: LCSD 880-97450/2-A

Matrix: Solid

Analysis Batch: 97353

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	1	35
Toluene	0.100	0.1094		mg/Kg		109	70 - 130	2	35
Ethylbenzene	0.100	0.1167		mg/Kg		117	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2328		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1316	*+	mg/Kg		132	70 - 130	3	35

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 110 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 100

Lab Sample ID: 880-51916-A-1-C MS

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 97450

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.09378		mg/Kg		93	70 - 130	
Toluene	<0.00200	U	0.101	0.09385		mg/Kg		93	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.09996		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.202	0.2025		mg/Kg		100	70 - 130	
o-Xylene	<0.00200	U *+	0.101	0.1113		mg/Kg		110	70 - 130	

	IVIS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-51916-A-1-D MSD

Released to Imaging: 7/31/2025 11:45:40 AM

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Matrix Spike Duplicate

Prep Batch: 97450

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.1016		mg/Kg		102	70 - 130	8	35
Toluene	<0.00200	U	0.0998	0.09809		mg/Kg		98	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0998	0.1016		mg/Kg		102	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2022		mg/Kg		101	70 - 130	0	35
o-Xylene	<0.00200	U *+	0.0998	0.1118		mg/Kg		112	70 - 130	0	35

MSD	MSD
%Recovery	Qualifie

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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Prep Type: Total/NA

Client: Carmona Resources Job ID: 880-51824-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

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

Lab Sample ID: MB 880-97527/5-A

Lab Sample ID: LCS 880-97527/1-A

Analysis Batch: 97490

Matrix: Solid

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

Prep Batch: 97527

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/10/24 14:39	12/10/24 18:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/10/24 14:39	12/10/24 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/10/24 14:39	12/10/24 18:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/10/24 14:39	12/10/24 18:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/10/24 14:39	12/10/24 18:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/10/24 14:39	12/10/24 18:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	12/10/24 14:39	12/10/24 18:40	1
1,4-Difluorobenzene (Surr)	119		70 - 130	12/10/24 14:39	12/10/24 18:40	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97527

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1094 mg/Kg 109 70 - 130 Toluene 0.100 0.1104 mg/Kg 110 70 - 130 0.100 106 Ethylbenzene 0.1061 mg/Kg 70 - 130 0.200 0.2040 102 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09352 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-97527/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 97490

Analysis Batch: 97490

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 97527

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1203 mg/Kg 120 70 - 130 9 35 Toluene 0.100 0.1185 mg/Kg 118 70 - 130 7 35 Ethylbenzene 0.100 0.1331 *+ mg/Kg 133 70 - 130 23 35 0.200 m-Xylene & p-Xylene 0.2347 mg/Kg 117 70 - 130 14 35 0.100 0.1045 o-Xylene mg/Kg 104 70 - 130 11 35

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 880-51979-A-1-B MS

Matrix: Solid

Analysis Batch: 97490

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 97527

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.08536		mg/Kg	_	85	70 - 130	
Toluene	<0.00200	U	0.101	0.09015		mg/Kg		89	70 - 130	

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Job ID: 880-51824-1

SDG: Eddy County New Mexico

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

Lab Sample ID: 880-51979-A-1-B MS

Matrix: Solid

Analysis Batch: 97490

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 97527

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U *+	0.101	0.07672		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1593		mg/Kg		79	70 - 130	
o-Xylene	<0.00200	U	0.101	0.07504		mg/Kg		74	70 - 130	

MS MS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97527

Lab Sample ID: 880-51979-A-1-C MSD **Matrix: Solid**

Analysis Batch: 97490

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.1016		mg/Kg		102	70 - 130	17	35
Toluene	<0.00200	U	0.0998	0.09799		mg/Kg		98	70 - 130	8	35
Ethylbenzene	<0.00200	U *+	0.0998	0.08950		mg/Kg		90	70 - 130	15	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1687		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00200	U	0.0998	0.08901		mg/Kg		89	70 - 130	17	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-97575/5-A

Matrix: Solid

Analysis Batch: 97570

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

12/11/24 11:33

12/11/24 08:23

Prep Batch: 97575

Result Qualifier Analyte MDL Unit Prepared Analyzed Dil Fac RL Benzene <0.00200 U 0.00200 mg/Kg 12/11/24 08:23 12/11/24 11:33 Toluene <0.00200 U 0.00200 mg/Kg 12/11/24 08:23 12/11/24 11:33 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/11/24 08:23 12/11/24 11:33 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/11/24 08:23 12/11/24 11:33 <0.00200 U 0.00200 12/11/24 08:23 12/11/24 11:33 o-Xylene mg/Kg

0.00400

mg/Kg

MB MB

<0.00400 U

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/11/24 08:23	12/11/24 11:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/11/24 08:23	12/11/24 11:33	1

Lab Sample ID: LCS 880-97575/1-A

Matrix: Solid

Xylenes, Total

Analysis Batch: 97570

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

Prep Batch: 97575

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.2184	*+	mg/Kg		218	70 - 130	
Toluene	0.100	0.2142	*+	mg/Kg		214	70 - 130	
Ethylbenzene	0.100	0.2104	*+	mg/Kg		210	70 - 130	
m-Xylene & p-Xylene	0.200	0.4266	*+	mg/Kg		213	70 - 130	

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Job ID: 880-51824-1

SDG: Eddy County New Mexico

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

Lab Sample ID: LCS 880-97575/1-A **Matrix: Solid**

Analysis Batch: 97570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 97575

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.2190 219 70 - 130 o-Xylene mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 102

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97575

Prep Batch: 97575

Lab Sample ID: LCSD 880-97575/2-A **Matrix: Solid**

Analysis Batch: 97570

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1149	*1	mg/Kg		115	70 - 130	62	35
Toluene	0.100	0.1127	*1	mg/Kg		113	70 - 130	62	35
Ethylbenzene	0.100	0.1109	*1	mg/Kg		111	70 - 130	62	35
m-Xylene & p-Xylene	0.200	0.2257	*1	mg/Kg		113	70 - 130	62	35
o-Xylene	0.100	0.1155	*1	mg/Kg		115	70 - 130	62	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 110 70 - 130 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: 890-7453-A-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 97570

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+ *1	0.101	0.1122		mg/Kg		111	70 - 130	
Toluene	<0.00200	U *+ *1	0.101	0.1092		mg/Kg		108	70 - 130	
Ethylbenzene	<0.00200	U *+ *1	0.101	0.1065		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.202	0.2151		mg/Kg		107	70 - 130	
o-Xylene	<0.00200	U *+ *1	0.101	0.1100		mg/Kg		109	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 103

Lab Sample ID: 890-7453-A-1-B MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 97570

Prep Batch: 97575 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limit Analyte Unit %Rec Limits RPD Benzene <0.00200 U *+ *1 0.0998 0.1154 mg/Kg 116 70 - 130 3 35 0.0998 0.1116 Toluene <0.00200 U*+*1 112 70 - 1302 35 mg/Kg Ethylbenzene <0.00200 0.0998 0.1087 mg/Kg 109 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.2217 <0.00401 U*+*1 mg/Kg 111 70 - 1303 35 o-Xylene <0.00200 U*+*1 0.0998 0.1132 mg/Kg 113 70 - 130 35

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Prep Type: Total/NA

Released to Imaging: 7/31/2025 11:45:40 AM

Job ID: 880-51824-1

SDG: Eddy County New Mexico

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

Lab Sample ID: 890-7453-A-1-B MSD

Matrix: Solid

Analysis Batch: 97570

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97575

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 110 70 - 130 1,4-Difluorobenzene (Surr) 105 70 - 130

Lab Sample ID: MB 880-97590/5-A Client Sample ID: Method Blank

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 97568

Prep Type: Total/NA

Analyzed

12/11/24 11:51

12/11/24 11:51

12/11/24 11:51

Prep Batch: 97590

Dil Fac

MB MB Analyte Result Qualifier RL MDL Unit Prepared <0.00200 U 0.00200 12/11/24 09:43 12/11/24 11:51 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 12/11/24 09:43 12/11/24 11:51 <0.00200 U 0.00200 12/11/24 09:43 12/11/24 11:51 Ethylbenzene mg/Kg

Xylenes, Total <0.00400 U

MB MB

<0.00400 U

<0.00200 U

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/11/24	4 09:43	12/11/24 11:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/11/24	4 09:43	12/11/24 11:51	1

0.00400

0.00200

0.00400

mg/Kg

mg/Kg

mg/Kg

Lab Sample ID: LCS 880-97590/1-A

Matrix: Solid

Analysis Batch: 97568

Client Sample ID: Lab Control Sample

12/11/24 09:43

12/11/24 09:43

12/11/24 09:43

Prep Type: Total/NA

Prep Batch: 97590

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1175		mg/Kg		117	70 - 130	
Toluene	0.100	0.1108		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1136		mg/Kg		114	70 - 130	
m-Xylene & p-Xylene	0.200	0.2263		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1153		mg/Kg		115	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-97590/2-A

Released to Imaging: 7/31/2025 11:45:40 AM

Matrix: Solid

Analysis Batch: 97568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97590

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1152		mg/Kg		115	70 - 130	2	35
Toluene	0.100	0.1090		mg/Kg		109	70 - 130	2	35
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2223		mg/Kg		111	70 - 130	2	35
o-Xylene	0.100	0.1135		mg/Kg		113	70 - 130	2	35

LCSD LCSD

%Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 103

Job ID: 880-51824-1

SDG: Eddy County New Mexico

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

Lab Sample ID: LCSD 880-97590/2-A

Matrix: Solid

Analysis Batch: 97568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97590

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 98 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-7452-A-1-M MS

Matrix: Solid

Analysis Batch: 97568

Prep Type: Total/NA

Prep Batch: 97590

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.101	0.1409	F1	mg/Kg		140	70 - 130	
Toluene	<0.00200	U	0.101	0.1289		mg/Kg		128	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.1206		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	0.0179		0.202	0.2475		mg/Kg		114	70 - 130	
o-Xylene	<0.00200	U F1	0.101	0.1184		mg/Kg		117	70 - 130	

MS MS

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

Lab Sample ID: 890-7452-A-1-N MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97568

Prep Type: Total/NA

Prep Batch: 97590

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0998	0.1353	F1	mg/Kg		136	70 - 130	4	35
Toluene	<0.00200	U	0.0998	0.1225		mg/Kg		123	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0998	0.1222		mg/Kg		121	70 - 130	1	35
m-Xylene & p-Xylene	0.0179		0.200	0.2483		mg/Kg		115	70 - 130	0	35
o-Xylene	<0.00200	U F1	0.0998	0.1368	F1	mg/Kg		137	70 - 130	14	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

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

Lab Sample ID: MB 880-97199/1-A

Matrix: Solid

Analysis Batch: 97226

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

Prep Batch: 97199

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	12/05/24 16:25	12/06/24 04:08	1
o-Terphenyl	77		70 - 130	12/05/24 16:25	12/06/24 04:08	1

Lab Sample ID: LCS 880-97199/2-A

Matrix: Solid

Analysis Batch: 97226

Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

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

Client Sample ID: Lab Control Sample

Prep Batch: 97199

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1139		mg/Kg		114	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1012		mg/Kg		101	70 - 130	
C10-C28)								

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 114 o-Terphenyl 102 70 - 130

LCS LCS

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 97199

Lab Sample ID: LCSD 880-97199/3-A **Matrix: Solid Analysis Batch: 97226**

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1120	mg/Kg		112	70 - 130	2	20
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	955.0	mg/Kg	3	95	70 - 130	6	20
C10-C28)								

LCSD LCSD %Recovery Qualifier Limits 106 70 - 130 97 70 - 130

Lab Sample ID: 880-51849-A-1-F MS

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 97226** Prep Batch: 97199

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	864.9		mg/Kg		87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	85		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 97199

Analysis Batch: 97226 MSD MSD RPD Sample Sample Spike %Rec Limit Result Qualifier Added Result Qualifier Analyte Limits RPD Unit D %Rec Gasoline Range Organics <49.9 U 996 878.3 mg/Kg 88 70 - 130 2 20 (GRO)-C6-C10 996 811.7 F1 Diesel Range Organics (Over 1340 F1 mg/Kg -53 70 - 1302 20

C10-C28) MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 98

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Lab Sample ID: 880-51849-A-1-G MSD

Job ID: 880-51824-1

SDG: Eddy County New Mexico

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

Lab Sample ID: 880-51849-A-1-G MSD

Lab Sample ID: MB 880-97215/1-A

Matrix: Solid

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Analysis Batch: 97226

Analysis Batch: 97228

Gasoline Range Organics

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97199

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 84 70 - 130

Client Sample ID: Method Blank

12/06/24 04:08

Prep Type: Total/NA

Prep Batch: 97215

Prep Type: Total/NA

мв мв

RL MDL Unit Prepared Analyzed Dil Fac 50.0 mg/Kg 12/06/24 08:20 12/06/24 04:08 50.0 mg/Kg 12/06/24 08:20 12/06/24 04:08

12/06/24 08:20

мв мв

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	12/06/24 08:20	12/06/24 04:08	1
o-Terphenyl	98		70 - 130	12/06/24 08:20	12/06/24 04:08	1

50.0

Client Sample ID: Lab Control Sample

Matrix: Solid

Lab Sample ID: LCS 880-97215/2-A

Analysis Batch: 97228

Gasoline Range Organics

Prep Batch: 97215 Spike LCS LCS Added Result Qualifier Unit %Rec Limits D 1000 927.5 mg/Kg 93 70 - 130

mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over 1000 900.8 mg/Kg 90 70 - 130

C10-C28)

Analyte

LCS LCS

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

Lab Sample ID: LCSD 880-97215/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 97228

Prep Type: Total/NA Prep Batch: 97215

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1095 mg/Kg 109 70 - 130 17 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1004 mg/Kg 100 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	110		70 - 130

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Released to Imaging: 7/31/2025 11:45:40 AM

Client: Carmona Resources

Project/Site: Lusitano 27 CTB 3

Job ID: 880-51824-1

SDG: Eddy County New Mexico

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

Lab Sample ID: 880-51849-A-5-D MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 97228 Prep Batch: 97215

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	999	899.8		mg/Kg		90	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	928	F1 F2	999	1567	F1	mg/Kg		64	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-51849-A-5-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97228

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	999	891.5		mg/Kg		89	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	928	F1 F2	999	852.2	F1 F2	mg/Kg		-8	70 - 130	59	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 105 70 - 130 o-Terphenyl 99 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97244/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 97264

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/06/24 14:17	1

Lab Sample ID: LCS 880-97244/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97264

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	241 1		ma/Ka		96	90 - 110	

Lab Sample ID: LCSD 880-97244/3-A Client Sample ID: Lab Control Sample Dup

Analysis Batch: 97264

Matrix: Solid

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	241.1	mg/Kg		96	90 - 110	0	20

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Prep Type: Soluble

Prep Type: Total/NA

Prep Batch: 97215

Lab Sample ID: 880-51824-8 MS

Lab Sample ID: 880-51824-8 MSD

Matrix: Solid

Matrix: Solid

Analyte

Chloride

Analysis Batch: 97264

Analysis Batch: 97264

QC Sample Results

Client: Carmona Resources Job ID: 880-51824-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

Method: 300.0 - Anions, Ion Chromatography (Continued)

76.0

Client Sample ID: T-2 (3')

Prep Type: Soluble

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Chloride 76.0 250 345.5 mg/Kg 108 90 - 110

Client Sample ID: T-2 (3')

Prep Type: Soluble

%Rec RPD

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec 250 345.2 mg/Kg 108 90 - 110 0 20

Client: Carmona Resources

Job ID: 880-51824-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

GC VOA

Analysis Batch: 97035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-10	T-2 (5')	Total/NA	Solid	8021B	97190
880-51824-11	T-3 (0-1')	Total/NA	Solid	8021B	97190
880-51824-12	T-3 (2')	Total/NA	Solid	8021B	97190
880-51824-13	T-3 (3')	Total/NA	Solid	8021B	97190
880-51824-14	T-3 (4')	Total/NA	Solid	8021B	97190
MB 880-97190/5-A	Method Blank	Total/NA	Solid	8021B	97190
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	8021B	97190
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97190
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97190
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97190

Prep Batch: 97190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-10	T-2 (5')	Total/NA	Solid	5035	<u> </u>
880-51824-11	T-3 (0-1')	Total/NA	Solid	5035	
880-51824-12	T-3 (2')	Total/NA	Solid	5035	
880-51824-13	T-3 (3')	Total/NA	Solid	5035	
880-51824-14	T-3 (4')	Total/NA	Solid	5035	
MB 880-97190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 97217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Total/NA	Solid	5035	
880-51824-3	T-1 (3')	Total/NA	Solid	5035	
880-51824-4	T-1 (4')	Total/NA	Solid	5035	
880-51824-6	T-2 (0-1')	Total/NA	Solid	5035	
880-51824-7	T-2 (2')	Total/NA	Solid	5035	
880-51824-8	T-2 (3')	Total/NA	Solid	5035	
880-51824-9	T-2 (4')	Total/NA	Solid	5035	
MB 880-97217/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97217/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97217/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51850-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-51850-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Total/NA	Solid	8021B	97217
880-51824-3	T-1 (3')	Total/NA	Solid	8021B	97217
880-51824-4	T-1 (4')	Total/NA	Solid	8021B	97217
880-51824-6	T-2 (0-1')	Total/NA	Solid	8021B	97217
880-51824-7	T-2 (2')	Total/NA	Solid	8021B	97217
880-51824-8	T-2 (3')	Total/NA	Solid	8021B	97217
880-51824-9	T-2 (4')	Total/NA	Solid	8021B	97217
MB 880-97217/5-A	Method Blank	Total/NA	Solid	8021B	97217
LCS 880-97217/1-A	Lab Control Sample	Total/NA	Solid	8021B	97217
LCSD 880-97217/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97217

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Client: Carmona Resources

Job ID: 880-51824-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

GC VOA (Continued)

Analysis Batch: 97231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51850-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97217
880-51850-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97217

Analysis Batch: 97290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-51824-2	T-1 (2')	Total/NA	Solid	Total BTEX	
880-51824-3	T-1 (3')	Total/NA	Solid	Total BTEX	
880-51824-4	T-1 (4')	Total/NA	Solid	Total BTEX	
880-51824-5	T-1 (5')	Total/NA	Solid	Total BTEX	
880-51824-6	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-51824-7	T-2 (2')	Total/NA	Solid	Total BTEX	
880-51824-8	T-2 (3')	Total/NA	Solid	Total BTEX	
880-51824-9	T-2 (4')	Total/NA	Solid	Total BTEX	
880-51824-10	T-2 (5')	Total/NA	Solid	Total BTEX	
880-51824-11	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-51824-12	T-3 (2')	Total/NA	Solid	Total BTEX	
880-51824-13	T-3 (3')	Total/NA	Solid	Total BTEX	
880-51824-14	T-3 (4')	Total/NA	Solid	Total BTEX	

Analysis Batch: 97353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-3	T-1 (3')	Total/NA	Solid	8021B	97450
880-51824-4	T-1 (4')	Total/NA	Solid	8021B	97450
880-51824-6	T-2 (0-1')	Total/NA	Solid	8021B	97450
880-51824-7	T-2 (2')	Total/NA	Solid	8021B	97450
880-51824-8	T-2 (3')	Total/NA	Solid	8021B	97450
880-51824-9	T-2 (4')	Total/NA	Solid	8021B	97450
MB 880-97372/5-A	Method Blank	Total/NA	Solid	8021B	97372
MB 880-97450/5-A	Method Blank	Total/NA	Solid	8021B	97450
LCS 880-97450/1-A	Lab Control Sample	Total/NA	Solid	8021B	97450
LCSD 880-97450/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97450
880-51916-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	97450
880-51916-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97450

Prep Batch: 97372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-97372/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 97450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-3	T-1 (3')	Total/NA	Solid	5035	
880-51824-4	T-1 (4')	Total/NA	Solid	5035	
880-51824-6	T-2 (0-1')	Total/NA	Solid	5035	
880-51824-7	T-2 (2')	Total/NA	Solid	5035	
880-51824-8	T-2 (3')	Total/NA	Solid	5035	
880-51824-9	T-2 (4')	Total/NA	Solid	5035	
MB 880-97450/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97450/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97450/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51916-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	

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Job ID: 880-51824-1 Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

GC VOA (Continued)

Prep Batch: 97450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51916-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-3	T-1 (3')	Total/NA	Solid	8021B	97527
880-51824-8	T-2 (3')	Total/NA	Solid	8021B	97527
MB 880-97527/5-A	Method Blank	Total/NA	Solid	8021B	97527
LCS 880-97527/1-A	Lab Control Sample	Total/NA	Solid	8021B	97527
LCSD 880-97527/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97527
880-51979-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97527
880-51979-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97527

Prep Batch: 97527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-3	T-1 (3')	Total/NA	Solid	5035	
880-51824-8	T-2 (3')	Total/NA	Solid	5035	
MB 880-97527/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97527/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97527/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51979-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-51979-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-97590/5-A	Method Blank	Total/NA	Solid	8021B	97590
LCS 880-97590/1-A	Lab Control Sample	Total/NA	Solid	8021B	97590
LCSD 880-97590/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97590
890-7452-A-1-M MS	Matrix Spike	Total/NA	Solid	8021B	97590
890-7452-A-1-N MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97590

Analysis Batch: 97570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-2	T-1 (2')	Total/NA	Solid	8021B	97575
880-51824-5	T-1 (5')	Total/NA	Solid	8021B	97575
MB 880-97575/5-A	Method Blank	Total/NA	Solid	8021B	97575
LCS 880-97575/1-A	Lab Control Sample	Total/NA	Solid	8021B	97575
LCSD 880-97575/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97575
890-7453-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	97575
890-7453-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97575

Prep Batch: 97575

Released to Imaging: 7/31/2025 11:45:40 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-2	T-1 (2')	Total/NA	Solid	5035	
880-51824-5	T-1 (5')	Total/NA	Solid	5035	
MB 880-97575/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97575/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97575/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7453-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7453-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Client: Carmona Resources

Job ID: 880-51824-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

GC VOA

Prep Batch: 97590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-97590/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97590/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97590/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7452-A-1-M MS	Matrix Spike	Total/NA	Solid	5035	
890-7452-A-1-N MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 97199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-51824-2	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-51824-3	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-51824-4	T-1 (4')	Total/NA	Solid	8015NM Prep	
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 97215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-5	T-1 (5')	Total/NA	Solid	8015NM Prep	
880-51824-6	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-51824-7	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-51824-8	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-51824-9	T-2 (4')	Total/NA	Solid	8015NM Prep	
880-51824-10	T-2 (5')	Total/NA	Solid	8015NM Prep	
880-51824-11	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-51824-12	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-51824-13	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-51824-14	T-3 (4')	Total/NA	Solid	8015NM Prep	
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-A-5-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51849-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Total/NA	Solid	8015B NM	97199
880-51824-2	T-1 (2')	Total/NA	Solid	8015B NM	97199
880-51824-3	T-1 (3')	Total/NA	Solid	8015B NM	97199
880-51824-4	T-1 (4')	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97199
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97199

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Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

GC Semi VOA

Analysis Batch: 97228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-5	T-1 (5')	Total/NA	Solid	8015B NM	97215
880-51824-6	T-2 (0-1')	Total/NA	Solid	8015B NM	97215
880-51824-7	T-2 (2')	Total/NA	Solid	8015B NM	97215
880-51824-8	T-2 (3')	Total/NA	Solid	8015B NM	97215
880-51824-9	T-2 (4')	Total/NA	Solid	8015B NM	97215
880-51824-10	T-2 (5')	Total/NA	Solid	8015B NM	97215
880-51824-11	T-3 (0-1')	Total/NA	Solid	8015B NM	97215
880-51824-12	T-3 (2')	Total/NA	Solid	8015B NM	97215
880-51824-13	T-3 (3')	Total/NA	Solid	8015B NM	97215
880-51824-14	T-3 (4')	Total/NA	Solid	8015B NM	97215
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015B NM	97215
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97215
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97215
880-51849-A-5-D MS	Matrix Spike	Total/NA	Solid	8015B NM	97215
880-51849-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97215

Analysis Batch: 97301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-51824-2	T-1 (2')	Total/NA	Solid	8015 NM	
880-51824-3	T-1 (3')	Total/NA	Solid	8015 NM	
880-51824-4	T-1 (4')	Total/NA	Solid	8015 NM	
880-51824-5	T-1 (5')	Total/NA	Solid	8015 NM	
880-51824-6	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-51824-7	T-2 (2')	Total/NA	Solid	8015 NM	
880-51824-8	T-2 (3')	Total/NA	Solid	8015 NM	
880-51824-9	T-2 (4')	Total/NA	Solid	8015 NM	
880-51824-10	T-2 (5')	Total/NA	Solid	8015 NM	
880-51824-11	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-51824-12	T-3 (2')	Total/NA	Solid	8015 NM	
880-51824-13	T-3 (3')	Total/NA	Solid	8015 NM	
880-51824-14	T-3 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-51824-2	T-1 (2')	Soluble	Solid	DI Leach	
880-51824-3	T-1 (3')	Soluble	Solid	DI Leach	
880-51824-4	T-1 (4')	Soluble	Solid	DI Leach	
880-51824-5	T-1 (5')	Soluble	Solid	DI Leach	
880-51824-6	T-2 (0-1')	Soluble	Solid	DI Leach	
880-51824-7	T-2 (2')	Soluble	Solid	DI Leach	
880-51824-8	T-2 (3')	Soluble	Solid	DI Leach	
880-51824-9	T-2 (4')	Soluble	Solid	DI Leach	
880-51824-10	T-2 (5')	Soluble	Solid	DI Leach	
880-51824-11	T-3 (0-1')	Soluble	Solid	DI Leach	
880-51824-12	T-3 (2')	Soluble	Solid	DI Leach	
880-51824-13	T-3 (3')	Soluble	Solid	DI Leach	
880-51824-14	T-3 (4')	Soluble	Solid	DI Leach	

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12/13/2024

Client: Carmona Resources Job ID: 880-51824-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 97244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-97244/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97244/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97244/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51824-8 MS	T-2 (3')	Soluble	Solid	DI Leach	
880-51824-8 MSD	T-2 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 97264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51824-1	T-1 (0-1')	Soluble	Solid	300.0	97244
880-51824-2	T-1 (2')	Soluble	Solid	300.0	97244
880-51824-3	T-1 (3')	Soluble	Solid	300.0	97244
880-51824-4	T-1 (4')	Soluble	Solid	300.0	97244
880-51824-5	T-1 (5')	Soluble	Solid	300.0	97244
880-51824-6	T-2 (0-1')	Soluble	Solid	300.0	97244
880-51824-7	T-2 (2')	Soluble	Solid	300.0	97244
880-51824-8	T-2 (3')	Soluble	Solid	300.0	97244
880-51824-9	T-2 (4')	Soluble	Solid	300.0	97244
880-51824-10	T-2 (5')	Soluble	Solid	300.0	97244
880-51824-11	T-3 (0-1')	Soluble	Solid	300.0	97244
880-51824-12	T-3 (2')	Soluble	Solid	300.0	97244
880-51824-13	T-3 (3')	Soluble	Solid	300.0	97244
880-51824-14	T-3 (4')	Soluble	Solid	300.0	97244
MB 880-97244/1-A	Method Blank	Soluble	Solid	300.0	97244
LCS 880-97244/2-A	Lab Control Sample	Soluble	Solid	300.0	97244
LCSD 880-97244/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97244
880-51824-8 MS	T-2 (3')	Soluble	Solid	300.0	97244
880-51824-8 MSD	T-2 (3')	Soluble	Solid	300.0	97244

Lab Sample ID: 880-51824-1

Matrix: Solid

Client Sample ID: T-1 (0-1')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97217	12/06/24 08:28	AA	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	97231	12/06/24 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/06/24 14:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 14:11	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 14:59	CH	EET MID

Client Sample ID: T-1 (2') Lab Sample ID: 880-51824-2 Date Collected: 11/26/24 00:00

Date Received: 12/05/24 11:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97575	12/11/24 11:43	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	97570	12/11/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/11/24 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 14:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 14:28	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:04	CH	EET MID

Client Sample ID: T-1 (3')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-3 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Run Factor		Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97527	12/10/24 14:39	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	97490	12/10/24 22:13	MNR	EET MIC
Total/NA	Prep	5035			5.02 g	5 mL	97217	12/06/24 08:28	AA	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	97231	12/06/24 14:36	MNR	EET MIC
Total/NA	Prep	5035			5.02 g	5 mL	97450	12/09/24 15:36	MNR	EET MIC
Total/NA	Analysis	8021B		50	5 mL	5 mL	97353	12/10/24 04:53	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			97290	12/10/24 22:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 14:44	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 14:44	TKC	EET MIC
Soluble	Leach	DI Leach			4.96 g	50 mL	97244	12/06/24 09:03	SA	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:21	СН	EET MIC

SDG: Eddy County New Mexico

Lab Sample ID: 880-51824-4

Matrix: Solid

Client Sample ID: T-1 (4')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Project/Site: Lusitano 27 CTB 3

Client: Carmona Resources

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97217	12/06/24 08:28	AA	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	97231	12/06/24 14:57	MNR	EET MID
Total/NA	Prep	5035			4.96 g	5 mL	97450	12/09/24 15:36	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	97353	12/10/24 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/10/24 05:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 15:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 15:00	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:26	CH	EET MID

Client Sample ID: T-1 (5')

Date Collected: 11/26/24 00:00

Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97575	12/11/24 11:43	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	97570	12/11/24 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/11/24 14:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 12:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 12:18	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:31	CH	EET MID

Client Sample ID: T-2 (0-1')

Date Collected: 11/26/24 00:00

Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97217	12/06/24 08:28	AA	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	97231	12/06/24 15:17	MNR	EET MID
Total/NA	Prep	5035			4.97 g	5 mL	97450	12/09/24 15:36	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	97353	12/10/24 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/10/24 05:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 12:34	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:45	CH	EET MID

Eurofins Midland

Lab Sample ID: 880-51824-6

Matrix: Solid

SDG: Eddy County New Mexico

Client Sample ID: T-2 (2')

Project/Site: Lusitano 27 CTB 3

Client: Carmona Resources

Lab Sample ID: 880-51824-7

Matrix: Solid

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97217	12/06/24 08:28	AA	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	97231	12/06/24 15:38	MNR	EET MID
Total/NA	Prep	5035			4.95 g	5 mL	97450	12/09/24 15:36	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	97353	12/10/24 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/10/24 05:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 12:51	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:50	CH	EET MID

Lab Sample ID: 880-51824-8

Matrix: Solid

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Client Sample ID: T-2 (3')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97527	12/10/24 14:39	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	97490	12/11/24 00:44	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	97217	12/06/24 08:28	AA	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	97231	12/06/24 15:58	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	97450	12/09/24 15:36	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	97353	12/10/24 06:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/11/24 00:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 13:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 13:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97244	12/06/24 09:03	SA	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:55	СН	EET MID

Client Sample ID: T-2 (4') Lab Sample ID: 880-51824-9 Date Collected: 11/26/24 00:00 Matrix: Solid

Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97217	12/06/24 08:28	AA	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	97231	12/06/24 16:19	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	97450	12/09/24 15:36	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	97353	12/10/24 06:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/10/24 06:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 13:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 13:39	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 16:11	CH	EET MID

Lab Sample ID: 880-51824-10

Matrix: Solid

Client Sample ID: T-2 (5') Date Collected: 11/26/24 00:00

Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/05/24 22:14	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/05/24 22:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 13:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 13:56	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 16:16	CH	EET MID

Client Sample ID: T-3 (0-1') Lab Sample ID: 880-51824-11 Date Collected: 11/26/24 00:00 Matrix: Solid

Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/05/24 22:34	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/05/24 22:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 14:11	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 16:32	CH	EET MID

Client Sample ID: T-3 (2') Lab Sample ID: 880-51824-12 Date Collected: 11/26/24 00:00 **Matrix: Solid**

Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/05/24 22:55	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/05/24 22:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 14:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 14:28	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 16:37	CH	EET MID

Client Sample ID: T-3 (3') Lab Sample ID: 880-51824-13

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/05/24 23:15	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/05/24 23:15	SM	EET MID

Eurofins Midland

Released to Imaging: 7/31/2025 11:45:40 AM

Matrix: Solid

Job ID: 880-51824-1

SDG: Eddy County New Mexico

Project/Site: Lusitano 27 CTB 3 Client Sample ID: T-3 (3')

Client: Carmona Resources

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Client Sample ID: T-3 (4')

Lab Sample ID: 880-51824-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			97301	12/06/24 14:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 14:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 16:43	CH	EET MID

Lab Sample ID: 880-51824-14

Matrix: Solid

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/05/24 23:36	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97290	12/05/24 23:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			97301	12/06/24 15:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97215	12/06/24 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97228	12/06/24 15:00	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 16:48	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-51824-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
The following analytes	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
for which the agency de	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	_
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51824-1

SDG: Eddy County New Mexico

Laboratory
EET MID

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: Lusitano 27 CTB 3 Job ID: 880-51824-1

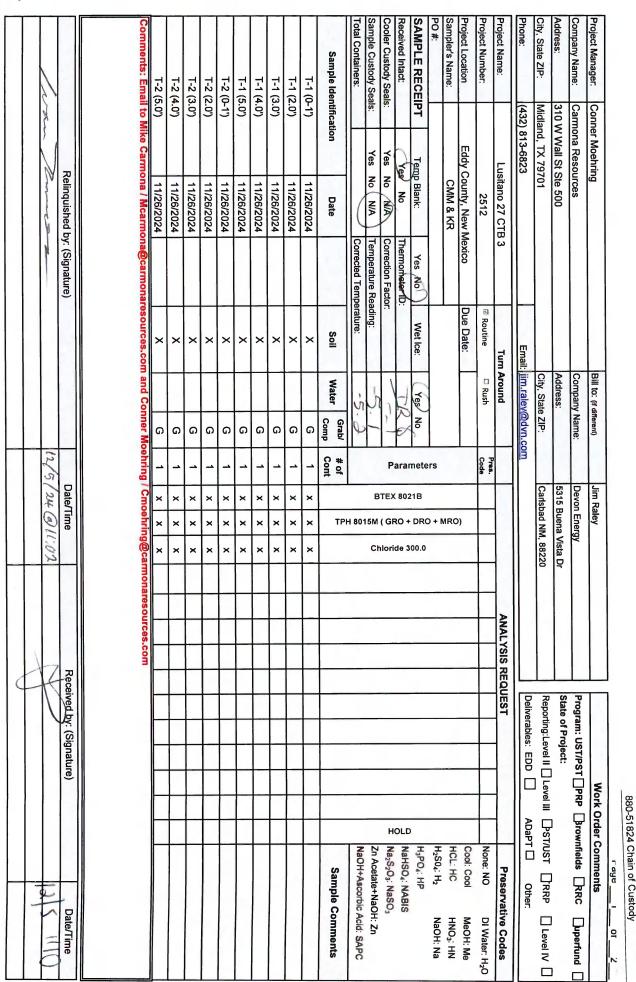
SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51824-1	T-1 (0-1')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-2	T-1 (2')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-3	T-1 (3')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-4	T-1 (4')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-5	T-1 (5')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-6	T-2 (0-1')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-7	T-2 (2')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-8	T-2 (3')	Solid	11/26/24 00:00	12/05/24 11:10
80-51824-9	T-2 (4')	Solid	11/26/24 00:00	12/05/24 11:10
80-51824-10	T-2 (5')	Solid	11/26/24 00:00	12/05/24 11:10
80-51824-11	T-3 (0-1')	Solid	11/26/24 00:00	12/05/24 11:10
380-51824-12	T-3 (2')	Solid	11/26/24 00:00	12/05/24 11:10
380-51824-13	T-3 (3')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-14	T-3 (4')	Solid	11/26/24 00:00	12/05/24 11:10

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Chain of Custody



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		Comments: Email to						T-3 (4.0")	T-3 (3.0")	T-3 (2.0")	T-3 (0-1')	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: (43)	City, State ZIP: Mid		Company Name: Car	Project Manager: Cor	
an Pasa	Relinquished	Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com						11/26/2024	11/26/2024	11/26/2024	11/26/2024	ation Date		Yes No N/A		Yes No	Temp Blank:		CMM & KR	Eddy County, New Mexico	2512	Lusitano 27 CTB 3	(432) 813-6823	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring	
	Relinquished by: (Signature)	nona@carmonare						4	4	4	4		Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No					TB3						
		sources.com						×	×	×	×	Soil	rature:	ding:			Wet Ice:			Due Date:	Routine	Turn	Email:					
		and Conner						G	G	G	G	Water Comp					Yes No				Rush	Turn Around	jim.raley@dvn.com	City, State ZIP:	Address:	Company Name	Bill to: (if different)	
12/2		Moehring						1	1	_	1	b/ # of ip Cont			P	arar	nete	rs			Code		n.com			e.		
1246	Date/Time	/ Cmoel				1		×	×	×	×												Carlsbac	5315 Bu	Devon Energy	Jim Raley		
न्।।।	ne	nring@ca				+		×	×	×	×	TPH	TPH 8015M (GRO + DRO + MRO) Chloride 300.0											Carlsbad NM, 88220	5315 Buena Vista Dr	Energy	ву	
		rmonaresources.co																				ANALYSIS REQUEST		0	Or .			
R	Recei	3												_								IS REQU		L		L	L	
	ed by: (S		_	-		-			_			-	_							-		EST	Deliverables: EDD	Reporting:	State of Project:	Program:		
	Received by: (Signature)															Level	roject:	Program: UST/PST ☐PRP ☐Brownfields ☐RRC	Work Orc									
2												Sample	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	H Na ₂ S ₂ O ₃ ; NaSO ₃	NaHSO4: NABIS	H3PO4: HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preserv	ADaPT LJ Other.	PST/UST ∐'RRP		rownfields RRC	Work Order Comments	Fage
5	Date/Time											Sample Comments	vic Acid: SAPC	₃OH: Zn	Ö	S		NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes		Level IV		: Duperfund		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51824-1

SDG Number: Eddy County New Mexico

Login Number: 51824 List Source: Eurofins Midland

List Number: 1 Creator: Kramer, Jessica

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

09 0J 243

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/9/2024 8:53:54 AM

JOB DESCRIPTION

Lusitano 27 CTB 3 Eddy County New Mexico

JOB NUMBER

880-51823-1

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 12/9/2024 8:53:54 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 19 12/9/2024 Released to Imaging: 7/31/2025 11:45:40 AM

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Laboratory Job ID: 880-51823-1 SDG: Eddy County New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-51823-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

2

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.
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: Lusitano 27 CTB 3 Job ID: 880-51823-1

Job ID: 880-51823-1 Eurofins Midland

Job Narrative 880-51823-1

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

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

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

Receipt

The sample was received on 12/5/2024 11:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.1°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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97199 and analytical batch 880-97226 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Job ID: 880-51823-1

SDG: Eddy County New Mexico

Project/Site: Lusitano 27 CTB 3 Client Sample ID: T-1 (6.0')

Lab Sample ID: 880-51823-1

Matrix: Solid

Date Collected: 11/26/24 00:00

Date Received: 12/05/24 11:10

Client: Carmona Resources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:32	12/05/24 18:57	1
Toluene	0.00881		0.00200		mg/Kg		12/05/24 14:32	12/05/24 18:57	1
Ethylbenzene	0.00341		0.00200		mg/Kg		12/05/24 14:32	12/05/24 18:57	1
m-Xylene & p-Xylene	0.0813		0.00399		mg/Kg		12/05/24 14:32	12/05/24 18:57	1
o-Xylene	0.0236		0.00200		mg/Kg		12/05/24 14:32	12/05/24 18:57	•
Xylenes, Total	0.105		0.00399		mg/Kg		12/05/24 14:32	12/05/24 18:57	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	127		70 - 130				12/05/24 14:32	12/05/24 18:57	
1,4-Difluorobenzene (Surr)	105		70 - 130				12/05/24 14:32	12/05/24 18:57	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.117		0.00399		mg/Kg			12/05/24 18:57	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	136		49.8		mg/Kg			12/06/24 13:56	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (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		12/05/24 16:25	12/06/24 13:56	,
Diesel Range Organics (Over	136		49.8		mg/Kg		12/05/24 16:25	12/06/24 13:56	•
C10-C28) Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:56	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	118		70 - 130				12/05/24 16:25	12/06/24 13:56	1
o-Terphenyl	96		70 - 130				12/05/24 16:25	12/06/24 13:56	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 7/31/2025 11:45:40 AM

Surrogate Summary

Client: Carmona Resources Job ID: 880-51823-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51823-1	T-1 (6.0')	127	105	
890-7433-A-1-E MS	Matrix Spike	97	96	
890-7433-A-1-F MSD	Matrix Spike Duplicate	100	97	
LCS 880-97130/1-A	Lab Control Sample	100	98	
LCSD 880-97130/2-A	Lab Control Sample Dup	98	98	
MB 880-97130/5-A	Method Blank	112	87	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-51823-1	T-1 (6.0')	118	96
880-51849-A-1-F MS	Matrix Spike	97	85
880-51849-A-1-G MSD	Matrix Spike Duplicate	98	84
LCS 880-97199/2-A	Lab Control Sample	114	102
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97
MB 880-97199/1-A	Method Blank	96	77

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources Job ID: 880-51823-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97130/5-A

Matrix: Solid Analysis Batch: 97118 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97130

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 09:32	12/05/24 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 09:32	12/05/24 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 09:32	12/05/24 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 09:32	12/05/24 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 09:32	12/05/24 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 09:32	12/05/24 11:23	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/05/24 09:32	12/05/24 11:23	1
1.4-Difluorobenzene (Surr)	87		70 - 130	12/05/24 09:32	12/05/24 11:23	1

Lab Sample ID: LCS 880-97130/1-A

Matrix: Solid

Analysis Batch: 97118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97130

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1112		mg/Kg		111	70 - 130	
Toluene	0.100	0.1071		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	0.200	0.2239		mg/Kg		112	70 - 130	
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: LCSD 880-97130/2-A

Matrix: Solid

Analysis Batch: 97118

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97130

	Spike	LCSD LC	SD			%Rec		RPD
Analyte	Added	Result Qu	alifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1120	mg/Kg		112	70 - 130	1	35
Toluene	0.100	0.1066	mg/Kg		107	70 - 130	0	35
Ethylbenzene	0.100	0.1102	mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2208	mg/Kg		110	70 - 130	1	35
o-Xylene	0.100	0.1128	mg/Kg		113	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-7433-A-1-E MS

Matrix: Solid

Analysis Batch: 97118

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 97130

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0996	0.1014		mg/Kg		102	70 - 130	
Toluene	<0.00198	U	0.0996	0.09328		mg/Kg		94	70 - 130	

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Prep Batch: 97130

Prep Type: Total/NA

QC Sample Results

Client: Carmona Resources Job ID: 880-51823-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

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

Lab Sample ID: 890-7433-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 97118

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00198	U	0.0996	0.09272		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1828		mg/Kg		92	70 - 130
o-Xylene	<0.00198	U	0.0996	0.09503		mg/Kg		95	70 - 130
	***	***							
	MS	MS							

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: 890-7433-A-1-F MSD

Matrix: Solid

Analysis Batch: 97118									Prep	Batch:	97130
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.101	0.1007		mg/Kg		100	70 - 130	1	35
Toluene	<0.00198	U	0.101	0.09190		mg/Kg		91	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.101	0.09197		mg/Kg		91	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1806		mg/Kg		89	70 - 130	1	35
o-Xylene	<0.00198	U	0.101	0.09445		mg/Kg		94	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Matrix: Solid

Analysis Batch: 97226

Lab Sample ID: MB 880-97199/1-A

Client Sample ID: Lab Control Sample

70 - 130

101

Client Sample ID: Matrix Spike Duplicate

ı		IND	IVID							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
	Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	12/05/24 16:25	12/06/24 04:08	1
o-Terphenyl	77		70 - 130	12/05/24 16:25	12/06/24 04:08	1

Lab Sample ID: LCS 880-97199/2-A

Released to Imaging: 7/31/2025 11:45:40 AM

Matrix: Solid

Analysis Batch: 97226

Gasoline Range Organics

						Prep Type: Total/I		
						Prep	Batch: 97199	
Spike	LCS	LCS				%Rec		
Added	Result	Qualifier	Unit	D	%Rec	Limits		
1000	1139		mg/Kg		114	70 - 130		

mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)

Analyte

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Job ID: 880-51823-1 Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

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

LCS LCS

Lab Sample ID: LCS 880-97199/2-A **Matrix: Solid**

Analysis Batch: 97226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97199

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 114 70 - 130 o-Terphenyl 102 70 - 130

Lab Sample ID: LCSD 880-97199/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA

Prep Batch: 97199

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1120 112 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 95 955.0 mg/Kg 70 - 1306 20

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 106 97 70 - 130 o-Terphenyl

Lab Sample ID: 880-51849-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA

Prep Batch: 97199

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 996 864.9 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1340 F1 996 797.7 F1 mg/Kg -54 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 97 o-Terphenyl 85 70 - 130

Lab Sample ID: 880-51849-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA

Prep Batch: 97199

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 996 878.3 88 Gasoline Range Organics <49.9 mg/Kg 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 1340 F1 996 811.7 F1 mg/Kg -53 70 - 130 2 20 C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 98 70 - 130 84 70 - 130 o-Terphenyl

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

Job ID: 880-51823-1

SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97244/1-A

Matrix: Solid

Analyte

Chloride

Analysis Batch: 97264

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв MDL Unit Dil Fac Result Qualifier RL D Prepared Analyzed <10.0 U 10.0 mg/Kg 12/06/24 14:17

Lab Sample ID: LCS 880-97244/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97264

Spike LCS LCS %Rec Added Qualifier %Rec Analyte Result Unit D Limits Chloride 250 241.1 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-97244/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 97264

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit Limits RPD Limit Chloride 250 90 - 110 241.1 mg/Kg

Lab Sample ID: 880-51821-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 97264

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec RPD Limit Result Unit Limits 386.2 Chloride 123 251 105 90 - 110 20 mg/Kg

Lab Sample ID: 880-51821-A-1-G MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97264

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 251 123 385.8 mg/Kg 105 90 - 110

QC Association Summary

Client: Carmona Resources Job ID: 880-51823-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

GC VOA

Analysis Batch: 97118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Total/NA	Solid	8021B	97130
MB 880-97130/5-A	Method Blank	Total/NA	Solid	8021B	97130
LCS 880-97130/1-A	Lab Control Sample	Total/NA	Solid	8021B	97130
LCSD 880-97130/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97130
890-7433-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	97130
890-7433-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97130

Prep Batch: 97130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Total/NA	Solid	5035	
MB 880-97130/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97130/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97130/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7433-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-7433-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Total/NA	Solid	8015NM Prep	
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97199
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97244

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Soluble	Solid	DI Leach	
MB 880-97244/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97244/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97244/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources

Job ID: 880-51823-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 97244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-51821-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	

Analysis Batch: 97264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51823-1	T-1 (6.0')	Soluble	Solid	300.0	97244
MB 880-97244/1-A	Method Blank	Soluble	Solid	300.0	97244
LCS 880-97244/2-A	Lab Control Sample	Soluble	Solid	300.0	97244
LCSD 880-97244/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97244
880-51821-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97244
880-51821-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	97244

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Lab Chronicle

Client: Carmona Resources

Job ID: 880-51823-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Client Sample ID: T-1 (6.0')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10 Lab Sample ID: 880-51823-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97130	12/05/24 14:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97118	12/05/24 18:57	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97286	12/05/24 18:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			97350	12/06/24 13:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 13:56	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 14:54	CH	EET MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-51823-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

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Method Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51823-1 SDG: Eddy County New Mexico

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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: Lusitano 27 CTB 3 Job ID: 880-51823-1

SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51823-1	T-1 (6.0')	Solid	11/26/24 00:00	12/05/24 11:10

(A) S (110)		12401101	13/5					Sa.	
Received by: (Signature) Date/Time	Rec	Date/Time	_			r. (Signature)	Relinquished by: (Signature)		
	Claire out cas.com	Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Comier Moening / Cinoening@carmonares	Delli III B	ind Colliner w	esources.com a	na@carmonar	iona / mcarmo	TO MIKE Carn	Comments: Ema
		× ×		G	×		11/26/2024	5.0")	T-1 (6.0')
Sample Comments		TP	cont cont	Water Comp	Soil		Date	ntification	Sample Identification
NaOH+Ascorbic Acid: SAPC		Н 80			erature:	Corrected Temperature:			Total Containers:
Zn Acetate+NaOH: Zn		15M		15	ading:	Temperature Reading:	No N/A	ils: Yes	Sample Custody Seals:
H Na ₂ S ₂ O ₃ : NaSO ₃		(GF	P	1		Correction Factor:	ONA	★ (Cooler Custody Seals:
LD NaHSO4: NABIS		RO +	arar	かなっ		Thermometer ID:		() Y	Received Intact:
		DRC	nete	Yes No	Wet Ice:	Yes No	Jemp Blank:		SAMPLE RECEIPT
H ₂ S0 ₄ : H ₂ NaOH: Na) + M	rs			L			PO #:
		IRO)					CMM & KR		Sampler's Name:
						exico	Eddy County, New Mexico	Eddv	Project Location
None: NO DI Water: H ₂ O			Code	□ Rush	Routine		2512		Project Number:
QUEST Preservative Codes	ANALYSIS REQUEST			ound	Turn Around	3	Lusitano 27 CTB 3		Project Name:
Deliverables: EDD			mo	Email: jim.ralev@dvn.com	Email: jii		3	(432) 813-6823	Phone:
Reporting:Level III		Carlsbad NM, 88220		City, State ZIP:	C		9701	Midland, TX 79701	City, State ZIP:
State of Project:		5315 Buena Vista Dr		Address:	Þ		Ste 500	310 W Wall St Ste 500	Address:
Program: UST/PST PRP Brownfields RRC pperfund		Devon Energy		Company Name:	C		ources	Carmona Resources	Company Name:
Work Order Comments		Jim Raley		Bill to: (if different)	В		ing	Conner Moehring	Project Manager.
880-51823 Chain of Custody		Chain of Custody	lain o	CP.					

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-51823-1

SDG Number: Eddy County New Mexico

List Source: Eurofins Midland

Login Number: 51823 List Number: 1

Creator: Kramer, Jessica

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

Released to Imaging: 7/31/2025 11:45:40 AM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/9/2024 8:53:29 AM

JOB DESCRIPTION

Lusitano 27 CTB 3 Eddy County New Mexico

JOB NUMBER

880-51821-1

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 12/9/2024 8:53:29 AM

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

Page 2 of 19 12/9/2024

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Laboratory Job ID: 880-51821-1 SDG: Eddy County New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-51821-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

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Qualifiers

GC VOA

Qualifier

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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: Lusitano 27 CTB 3 Job ID: 880-51821-1

Job ID: 880-51821-1 Eurofins Midland

Job Narrative 880-51821-1

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

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

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

Receipt

The sample was received on 12/5/2024 11:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97190 and analytical batch 880-97035 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97199 and analytical batch 880-97226 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Eurofins Midland

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Client: Carmona Resources

Date Collected: 11/26/24 00:00

Date Received: 12/05/24 11:10

Job ID: 880-51821-1

SDG: Eddy County New Mexico

Project/Site: Lusitano 27 CTB 3 Client Sample ID: T-1 (8.0')

Lab Sample ID: 880-51821-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/05/24 14:07	12/06/24 01:18	1
Toluene	0.00343		0.00202		mg/Kg		12/05/24 14:07	12/06/24 01:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/05/24 14:07	12/06/24 01:18	1
m-Xylene & p-Xylene	0.0115		0.00404		mg/Kg		12/05/24 14:07	12/06/24 01:18	1
o-Xylene	0.00325		0.00202		mg/Kg		12/05/24 14:07	12/06/24 01:18	1
Xylenes, Total	0.0148		0.00404		mg/Kg		12/05/24 14:07	12/06/24 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/05/24 14:07	12/06/24 01:18	1
1,4-Difluorobenzene (Surr)	90		70 - 130				12/05/24 14:07	12/06/24 01:18	1
Method: TAL SOP Total BTEX - To Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total BTEX	0.0182		0.00404		mg/Kg			12/06/24 01:18	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 13:23	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:23	1
C10-C28)	.40.0		40.0		11.6		10/05/04 10 05	10/00/04 10 00	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				12/05/24 16:25	12/06/24 13:23	1
1-Chioroociane	102		70 - 130				12/03/24 10.23	12/00/24 13.23	,

RL

10.0

MDL Unit

mg/Kg

Prepared

Analyzed

12/06/24 14:33

Dil Fac

Eurofins Midland

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

123

Analyte

Chloride

Surrogate Summary

Client: Carmona Resources

Job ID: 880-51821-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51811-A-1-B MS	Matrix Spike	110	98	
880-51811-A-1-C MSD	Matrix Spike Duplicate	104	96	
880-51821-1	T-1 (8.0')	112	90	
LCS 880-97190/1-A	Lab Control Sample	102	105	
LCSD 880-97190/2-A	Lab Control Sample Dup	98	106	
MB 880-97190/5-A	Method Blank	221 S1+	142 S1+	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51821-1	T-1 (8.0')	102	81	
880-51849-A-1-F MS	Matrix Spike	97	85	
880-51849-A-1-G MSD	Matrix Spike Duplicate	98	84	
LCS 880-97199/2-A	Lab Control Sample	114	102	
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97	
MB 880-97199/1-A	Method Blank	96	77	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

> MB MB %Recovery Qualifier

> > 221 S1+

142 S1+

Job ID: 880-51821-1 SDG: Eddy County New Mexico

Client Sample ID: Method Blank

Analyzed

12/05/24 16:51

12/05/24 16:51

Prep Type: Total/NA Prep Batch: 97190

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prepared

12/05/24 14:07

12/05/24 14:07

Prep Type: Total/NA

Dil Fac

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97190/5-A

Matrix: Solid

Surrogate

Analysis Batch: 97035								Prep Batch	n: 97190
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1

Limits

70 - 130

70 - 130

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-97190/1-A

Matrix: Solid

Analysis	Batch:	97035

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1111	-	mg/Kg		111	70 - 130	
Toluene	0.100	0.1023		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2250		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130	

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

Lab Sample ID: LCSD 880-97190/2-A

Matrix: Solid

Analysis Batch: 97035							Prep	Batch:	97190
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	6	35
Toluene	0.100	0.09983		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.08655		mg/Kg		87	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130	7	35
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-51811-A-1-B MS

Matrix: Solid

Analysis Batch: 97035									Pre	Batch: 97190
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0990	0.09133		mg/Kg		92	70 - 130	
Toluene	0.00326		0.0990	0.09595		mg/Kg		94	70 - 130	

Eurofins Midland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

QC Sample Results

Client: Carmona Resources

Job ID: 880-51821-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

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

Lab Sample ID: 880-51811-A-1-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 97035

Prep Batch: 97190

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0990	0.09222		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.00422		0.198	0.2097		mg/Kg		104	70 - 130	
o-Xylene	<0.00201	U	0.0990	0.1005		mg/Kg		102	70 - 130	

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 110
 70 - 130

 1,4-Difluorobenzene (Surr)
 98
 70 - 130

Lab Sample ID: 880-51811-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid
Analysis Batch: 97035

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00201 U 0.101 0.09029 mg/Kg 90 70 - 130 35 Toluene 0.00326 0.101 0.08989 mg/Kg 86 70 - 130 35 Ethylbenzene <0.00201 0.101 0.08013 79 70 - 130 35 U mg/Kg 14 35 m-Xylene & p-Xylene 0.00422 0.202 0.1919 mg/Kg 93 70 - 130 9 <0.00201 U 0.101 0.09476 70 - 130 o-Xylene mg/Kg 94 6

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 104
 70 - 130

 1,4-Difluorobenzene (Surr)
 96
 70 - 130

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

Lab Sample ID: MB 880-97199/1-A

Matrix: Solid

Analysis Batch: 97226

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

Prep Batch: 97199

MB I

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 70 - 130 1-Chlorooctane 96 12/05/24 16:25 12/06/24 04:08 77 70 - 130 12/05/24 16:25 12/06/24 04:08 o-Terphenyl

Lab Sample ID: LCS 880-97199/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 97226 Prep Batch: 97199

	Spike	LUG	LUG				/onec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1139	-	mg/Kg		114	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1012		mg/Kg		101	70 - 130
C10-C28)							

Eurofins Midland

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Prep Type: Total/NA Prep Batch: 97190

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mio midiane

Client: Carmona Resources Job ID: 880-51821-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

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

LCS LCS

Lab Sample ID: LCS 880-97199/2-A

Matrix: Solid

Analysis Batch: 97226

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

Prep Batch: 97199

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 114 70 - 130 o-Terphenyl 102 70 - 130

Lab Sample ID: LCSD 880-97199/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA

Prep Batch: 97199

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1120 112 70 - 130 2 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 955.0 mg/Kg 95 70 - 1306 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 106 97 70 - 130 o-Terphenyl

Lab Sample ID: 880-51849-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA

Prep Batch: 97199

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		87	70 - 130		
Diesel Range Organics (Over	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130		
C10-C28)											

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 97 o-Terphenyl 85 70 - 130

Lab Sample ID: 880-51849-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA

Prep Batch: 97199

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	996	878.3		mg/Kg		88	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	1340	F1	996	811.7	F1	mg/Kg		-53	70 - 130	2	20
C10-C28)											

MSD MSD Qualifier Surrogate %Recovery

Limits 1-Chlorooctane 98 70 - 130 84 70 - 130 o-Terphenyl

QC Sample Results

Client: Carmona Resources Job ID: 880-51821-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97244/1-A

Matrix: Solid

Analyte

Chloride

Analysis Batch: 97264

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв MDL Unit Dil Fac Result Qualifier RL D Prepared Analyzed <10.0 U 10.0 mg/Kg 12/06/24 14:17

Lab Sample ID: LCS 880-97244/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97264

Spike LCS LCS %Rec Added Qualifier %Rec Analyte Result Unit D Limits Chloride 250 241.1 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-97244/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 97264

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 241.1 mg/Kg 90 - 110

Lab Sample ID: 880-51821-1 MS Client Sample ID: T-1 (8.0') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 97264

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 123 251 385.8 105 90 - 110 mg/Kg

Lab Sample ID: 880-51821-1 MSD Client Sample ID: T-1 (8.0') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 97264

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 251 123 386.2 mg/Kg 105 90 - 110 20

QC Association Summary

Client: Carmona Resources

Job ID: 880-51821-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

GC VOA

Analysis Batch: 97035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Total/NA	Solid	8021B	97190
MB 880-97190/5-A	Method Blank	Total/NA	Solid	8021B	97190
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	8021B	97190
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97190
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97190
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97190

Prep Batch: 97190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Total/NA	Solid	5035	
MB 880-97190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Total/NA	Solid	8015NM Prep	
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97199
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Soluble	Solid	DI Leach	
MB 880-97244/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97244/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97244/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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12/9/2024

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QC Association Summary

Client: Carmona Resources

Job ID: 880-51821-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 97244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1 MS	T-1 (8.0')	Soluble	Solid	DI Leach	
880-51821-1 MSD	T-1 (8.0')	Soluble	Solid	DI Leach	

Analysis Batch: 97264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51821-1	T-1 (8.0')	Soluble	Solid	300.0	97244
MB 880-97244/1-A	Method Blank	Soluble	Solid	300.0	97244
LCS 880-97244/2-A	Lab Control Sample	Soluble	Solid	300.0	97244
LCSD 880-97244/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97244
880-51821-1 MS	T-1 (8.0')	Soluble	Solid	300.0	97244
880-51821-1 MSD	T-1 (8.0')	Soluble	Solid	300.0	97244

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Lab Chronicle

Client: Carmona Resources

Job ID: 880-51821-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Client Sample ID: T-1 (8.0')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10 Lab Sample ID: 880-51821-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/06/24 01:18	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97295	12/06/24 01:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			97348	12/06/24 13:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 13:23	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97244	12/06/24 09:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 14:33	CH	EET MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-51821-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

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Method Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

Job ID: 880-51821-1 SDG: Eddy County New Mexico

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

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: Lusitano 27 CTB 3 Job ID: 880-51821-1

SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51821-1	T-1 (8.0')	Solid	11/26/24 00:00	12/05/24 11:10

	0
	12
	0
	0
	dst
	0

lup		Comments: Email to				1-1 (8.0')	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone: (43	City, State ZIP: Mic	Address: 310	Company Name: Car	Project Manager: Col
Unace	Relinquished	Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com				11/26/2024			Yes No N/A	Yes No N/A	Yes No	Temp Blank:		CMM & KR	Eddy County, New Mexico	2512	Lusitano 27 CTB 3	(432) 813-6823	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring
1	Relinquished by: (Signature)	ona@carmonares						Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No				<u>u</u>	В3					
		ources.com				>	_	ure:	ığ.			Wet Ice:			Due Date:	☑ Routine	Turn Around	Email: ji		P	0	T.
		and Conner			-	G	Water Comp	7	-5-			Yes No				Rush	round	jim.ralev@dvn.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
12/5		Moehring			1	-	O #	#-	1_	P	ara	mete	ers		L	Code		.com				
5/240	Date/Time	Cmoehri		-	-	×	-	РН 80			(802 RO +	_	0+1	MRO)				Carlsbad NM, 88220	5315 Buena Vista Dr	Devon Energy	Jim Raley
20.11		ng@carmor	+			×			CI	nlori	ide 3	00.0	_						M, 88220	a Vista Dr	rgy	
		aresources.cor															ANALYSIS					
	Received by (Signature)	3															ANALYSIS REQUEST	Deliverables: EDD	Reporting	State of Project:	Program:	
	Signature)										-							les: EDD	Reporting:Level II Level III LPST/UST	roject:	UST/PST PRP	Work
7							Samp	NaOH+Asco	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	H ₃ PO ₄ ; HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Prese	ADaPT L Other.	III LPST/UST LTRRP		Program: UST/PST ☐PRP ☐Brownfields ☐RRC	Work Order Comments
215 1110	Date/Time						Sample Comments	NaOH+Ascorbic Acid: SAPC	NaOH: Zn	1SO ₃	NBIS		NaOH: Na	HNO ₃ ; HN	МеОН: Ме	DI Water: H ₂ O	Preservative Codes	her.	RP ☐ Level IV L		₹C	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51821-1

CDC Number: Fide County New Marie

SDG Number: Eddy County New Mexico

List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

Login Number: 51821

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/9/2024 9:05:36 AM

JOB DESCRIPTION

Lusitano 27 CTB 3 Eddy County New Mexico

JOB NUMBER

880-51820-1

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 12/9/2024 9:05:36 AM

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

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Laboratory Job ID: 880-51820-1 SDG: Eddy County New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-51820-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

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Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 U
 Indicates the analyte was analyzed for but not detected.

HPLC/IC Qualifier

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

Qualifier Description

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

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Case Narrative

Client: Carmona Resources Project: Lusitano 27 CTB 3

Job ID: 880-51820-1

Eurofins Midland Job ID: 880-51820-1

Job Narrative 880-51820-1

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

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

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

Receipt

The sample was received on 12/5/2024 11:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97190 and analytical batch 880-97035 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-2 (6.0') (880-51820-1). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97199 and analytical batch 880-97226 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97243 and analytical batch 880-97261 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Carmona Resources

Job ID: 880-51820-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Client Sample ID: T-2 (6.0')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10 Lab Sample ID: 880-51820-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:57	1
Toluene	0.0168		0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:57	1
Ethylbenzene	0.00692		0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:57	1
m-Xylene & p-Xylene	0.111		0.00398		mg/Kg		12/05/24 14:07	12/06/24 00:57	1
o-Xylene	0.0390		0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:57	1
Xylenes, Total	0.150		0.00398		mg/Kg		12/05/24 14:07	12/06/24 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130				12/05/24 14:07	12/06/24 00:57	1
1,4-Difluorobenzene (Surr)	75		70 - 130				12/05/24 14:07	12/06/24 00:57	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.174		0.00398		mg/Kg			12/06/24 00:57	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	225		49.9		mg/Kg			12/06/24 12:51	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 12:51	1
(GRO)-C6-C10									
Diesel Range Organics (Over	225		49.9		mg/Kg		12/05/24 16:25	12/06/24 12:51	1
C10-C28) Oil Range Organics (Over C28-C36)	<49.9	11	49.9		mg/Kg		12/05/24 16:25	12/06/24 12:51	1
Oil Natige Organics (Over 620-630)	~49.9	O	49.9		mg/kg		12/03/24 10.23	12/00/24 12:51	'
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/05/24 16:25	12/06/24 12:51	1
o-Terphenyl	83		70 - 130				12/05/24 16:25	12/06/24 12:51	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		9.98		mg/Kg			12/07/24 03:24	1

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-51820-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51811-A-1-B MS	Matrix Spike	110	98	
880-51811-A-1-C MSD	Matrix Spike Duplicate	104	96	
880-51820-1	T-2 (6.0')	64 S1-	75	
LCS 880-97190/1-A	Lab Control Sample	102	105	
LCSD 880-97190/2-A	Lab Control Sample Dup	98	106	
MB 880-97190/5-A	Method Blank	221 S1+	142 S1+	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51820-1	T-2 (6.0')	99	83	
880-51849-A-1-F MS	Matrix Spike	97	85	
880-51849-A-1-G MSD	Matrix Spike Duplicate	98	84	
LCS 880-97199/2-A	Lab Control Sample	114	102	
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97	
MB 880-97199/1-A	Method Blank	96	77	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51820-1

SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97190/5-A

Lab Sample ID: LCS 880-97190/1-A

Matrix: Solid

Analysis Batch: 97035

Matrix: Solid Analysis Batch: 97035 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97190

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	221	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1
1.4-Difluorobenzene (Surr)	142	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97190

Prep Type: Total/NA

Prep Batch: 97190

35

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1111 mg/Kg 111 70 - 130 Toluene 0.100 0.1023 mg/Kg 102 70 - 130 0.100 102 Ethylbenzene 0.1021 mg/Kg 70 - 130 70 - 130 0.200 0.2250 m-Xylene & p-Xylene mg/Kg 113 0.100 0.1084 108 70 - 130 o-Xylene mg/Kg

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

103

Matrix: Solid

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Lab Sample ID: LCSD 880-97190/2-A

Analysis Batch: 97035

Spike	LCSD	LCSD				%Rec		RPD	
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
0.100	0.1043		mg/Kg		104	70 - 130	6	35	
0.100	0.09983		mg/Kg		100	70 - 130	2	35	
0.100	0.08655		mg/Kg		87	70 - 130	16	35	
0.200	0.2103		mg/Kg		105	70 - 130	7	35	

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-51811-A-1-B MS

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike Prep Type: Total/NA

70 - 130

Prep Batch: 97190

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0990	0.09133		mg/Kg	_	92	70 - 130	
Toluene	0.00326		0.0990	0.09595		mg/Kg		94	70 - 130	

0.100

0.1029

Eurofins Midland

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QC Sample Results

Job ID: 880-51820-1 Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

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

Lab Sample ID: 880-51811-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 97035 Prep Batch: 97190

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0990	0.09222		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.00422		0.198	0.2097		mg/Kg		104	70 - 130	
o-Xylene	<0.00201	U	0.0990	0.1005		mg/Kg		102	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 70 - 130 98

Lab Sample ID: 880-51811-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97035									Prep	Batch:	97190
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.101	0.09029		mg/Kg		90	70 - 130	1	35
Toluene	0.00326		0.101	0.08989		mg/Kg		86	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.101	0.08013		mg/Kg		79	70 - 130	14	35
m-Xylene & p-Xylene	0.00422		0.202	0.1919		mg/Kg		93	70 - 130	9	35
o-Xylene	<0.00201	U	0.101	0.09476		mg/Kg		94	70 - 130	6	35
o-Xylene	<0.00201	U	0.101	0.09476				94	70 - 130	6	35

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 104 1,4-Difluorobenzene (Surr) 96 70 - 130

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

Lab Sample ID: MB 880-97199/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 97226

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 96 70 - 130 12/05/24 16:25 12/06/24 04:08 77 70 - 130 12/05/24 16:25 12/06/24 04:08 o-Terphenyl

Lab Sample ID: LCS 880-97199/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 97226

Matrix: Solid

Prep Batch: 97199 Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 1000 114 70 - 130 1139 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1012 mg/Kg 101 70 - 130

C10-C28)

Eurofins Midland

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 97199

Client: Carmona Resources Job ID: 880-51820-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

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

Lab Sample ID: LCS 880-97199/2-A **Matrix: Solid**

Analysis Batch: 97226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97199

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-97199/3-A

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97199

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1120		mg/Kg		112	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	955.0		mg/Kg		95	70 - 130	6	20
C10-C28)									

LCSD LCSD

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-51849-A-1-F MS Client Sample ID: Matrix Spike

Me Me

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA

Prep Batch: 97199

	Janipie	Janipie	Spike	IVIO	IVIO				/01 \C C	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	864.9		mg/Kg		87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130	
C10-C28)										

Snike

	MS MS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	85	70 - 130

Lab Sample ID: 880-51849-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97226

Prep Type: Total/NA Prep Batch: 97199

Spike MSD MSD %Rec RPD Sample Sample Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 996 878.3 88 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1340 F1 996 811.7 F1 mg/Kg -53 70 - 130 20 C10-C28)

MSD	MS	D
	_	

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	98	70 - 130
o-Terphenyl	84	70 - 130

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51820-1

SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97243/1-A

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Method Blank **Prep Type: Soluble**

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <10.0 U 10.0 mg/Kg 12/07/24 00:46

MB MB

Lab Sample ID: LCS 880-97243/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97261

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 240.9 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-97243/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97261

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 239.7 mg/Kg 90 - 110

Lab Sample ID: 880-51806-A-5-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 97261

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 19.3 F1 249 323.4 F1 122 90 - 110 mg/Kg

Lab Sample ID: 880-51806-A-5-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97261

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 19.3 F1 249 323.8 F1 mg/Kg 123 90 - 110 20

Eurofins Midland

Prep Type: Soluble

QC Association Summary

Client: Carmona Resources

Job ID: 880-51820-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

GC VOA

Analysis Batch: 97035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (6.0')	Total/NA	Solid	8021B	97190
MB 880-97190/5-A	Method Blank	Total/NA	Solid	8021B	97190
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	8021B	97190
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97190
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97190
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97190

Prep Batch: 97190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (6.0')	Total/NA	Solid	5035	<u> </u>
MB 880-97190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (6.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

Lab Sample ID 880-51820-1	Client Sample ID T-2 (6.0')	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (6.0')	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97199
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (6.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (6.0')	Soluble	Solid	DI Leach	
MB 880-97243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

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QC Association Summary

Client: Carmona Resources

Job ID: 880-51820-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 97243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51806-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-51806-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 97261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (6.0')	Soluble	Solid	300.0	97243
MB 880-97243/1-A	Method Blank	Soluble	Solid	300.0	97243
LCS 880-97243/2-A	Lab Control Sample	Soluble	Solid	300.0	97243
LCSD 880-97243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97243
880-51806-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	97243
880-51806-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97243

Lab Chronicle

Client: Carmona Resources

Job ID: 880-51820-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Client Sample ID: T-2 (6.0')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10 Lab Sample ID: 880-51820-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/06/24 00:57	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97294	12/06/24 00:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			97347	12/06/24 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 12:51	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97243	12/06/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97261	12/07/24 03:24	CH	EET MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-51820-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

2

3

4

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9

10

12

Method Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51820-1 SDG: Eddy County New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51820-1

SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51820-1	T-2 (6.0')	Solid	11/26/24 00:00	12/05/24 11:10

Chain of

1		Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com			T-2 (6.0)	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:
and I		il to Mike Carm			6.0')	ntification		als: Yes	ls: Yes	Yes				Eddy		-	(432) 813-6823	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring
Range	Relinquished by: (Signature)	ona / Mcarmo			11/26/2024	Date		No N/A	No N/A	No No	Temp Blank:		CMM & KR	Eddy County, New Mexico	2512	Lusitano 27 CTB		701	Ste 500	urces	ng
	y: (Signature)	na@carmona					Corrected Temperature:	Temperature Reading:	Correction Factor.	Thermometer ID:	Yes No			/lexico		3					
		resources.con			×	Soil	erature:	ading:	ה		Wet Ice:			Due Date:	⊠ Routine	Turn	Email				
		and Conne				Water C	5	j			Yes No				Rush	Turn Around	Email: jim.raley@dvn.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
12/6		er Moehring				Grab/ # of Comp Cont	دا		Pa	aran	nete	rs			Code		vn.com	.9		me:	ent)
1240	Date/Time	Cmoehrii			×	ТР	H 801	_	_	802) + N	IRO)				Carlsbad NM, 88220	5315 Buena Vista Dr	Devon Energy	Jim Raley
1:02		າງ@carmon			×			Ch	lorie	de 3	00.0							M, 88220	Vista Dr	gy	
		aresources.														ANAL					
7	Recei	com														ANALYSIS REQUEST	L				
	Received by: (Signature)															EST	Deliverables: EDD	Reporting:Level III ST/UST	State of Project:	Program: UST/PST ☐PRP ☐Brownfields ☐RRC	
	ature)																EDD L	el II 🗌 Level	ict:	T/PST PRF	Worl
							N _a	Zn	Na	Na	Нэ	H ₂ :	НС	င္ပ	No		ADaPT	III 🕒 ST/US		Brownfie	Work Order Comments
12/5	- [Sample C	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na2S2O3: NaSO3	NaHSO4: NABIS	H ₃ PO ₄ : HP	H ₂ SO ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preserva	Other:	RRP		lds RRC	nments
	Date/Time					Sample Comments	Acid: SAPC	H: Zn	w			NaOH: Na	HNO ₃ : HN	МеОН: Ме	DI Water: H ₂ O	Preservative Codes		☐ Level IV ☐		Duperfund	

880-51820 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51820-1

SDG Number: Eddy County New Mexico

Login Number: 51820 List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica
Question

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

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<u>11</u>

4.0

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/9/2024 9:04:15 AM

JOB DESCRIPTION

Lusitano 27 CTB 3 Eddy County New Mexico

JOB NUMBER

880-51819-1

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 12/9/2024 9:04:15 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 7

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Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Laboratory Job ID: 880-51819-1 SDG: Eddy County New Mexico

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Definitions/Glossary

Job ID: 880-51819-1 Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Qualifiers

GC VOA Qualifier

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

U

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Project: Lusitano 27 CTB 3

Job ID: 880-51819-1

Eurofins Midland Job ID: 880-51819-1

Job Narrative 880-51819-1

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

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

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

Receipt

The sample was received on 12/5/2024 11:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97190 and analytical batch 880-97035 was outside the upper control limits.

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

Diesel Range Organics

Released to Imaging: 7/31/2025 11:45:40 AM

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97199 and analytical batch 880-97226 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97243 and analytical batch 880-97261 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample ID: T-2 (7.0')

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

Job ID: 880-51819-1

SDG: Eddy County New Mexico

L

Matrix: Solid

_ab San	nple	ID:	880-	5 18	19-1
---------	------	-----	------	-------------	------

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	
Toluene	0.00322		0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	,
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	,
m-Xylene & p-Xylene	0.00936		0.00400		mg/Kg		12/05/24 14:07	12/06/24 00:37	
o-Xylene	0.00285		0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	
Xylenes, Total	0.0122		0.00400		mg/Kg		12/05/24 14:07	12/06/24 00:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		70 - 130				12/05/24 14:07	12/06/24 00:37	
1,4-Difluorobenzene (Surr)	97		70 - 130				12/05/24 14:07	12/06/24 00:37	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0154		0.00400		mg/Kg			12/06/24 00:37	
		ics (DRO) (mg/Kg			12/06/24 00:37	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (Qualifier		MDL		D	Prepared	12/06/24 00:37 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte	el Range Organ	Qualifier	GC)	MDL		<u>D</u>	Prepared		Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH	el Range Organ Result <49.9	Qualifier U	GC) RL 49.9	MDL	Unit	<u> </u>	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result <49.9 sel Range Organ	Qualifier U	GC) RL 49.9		Unit mg/Kg	D_	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die Analyte	el Range Organ Result <49.9 sel Range Organ	Qualifier U unics (DRO) Qualifier	GC) RL 49.9		Unit mg/Kg		<u> </u>	Analyzed 12/06/24 12:34	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U unics (DRO) Qualifier	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 12/06/24 12:34 Analyzed	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 12/06/24 12:34 Analyzed	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	Qualifier U unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/05/24 16:25 12/05/24 16:25	Analyzed 12/06/24 12:34 Analyzed 12/06/24 12:34 12/06/24 12:34	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result 49.9	Qualifier U unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 12/05/24 16:25	Analyzed 12/06/24 12:34 Analyzed 12/06/24 12:34	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	Qualifier U unics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/05/24 16:25 12/05/24 16:25	Analyzed 12/06/24 12:34 Analyzed 12/06/24 12:34 12/06/24 12:34	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	Qualifier U unics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/05/24 16:25 12/05/24 16:25 12/05/24 16:25	Analyzed 12/06/24 12:34 Analyzed 12/06/24 12:34 12/06/24 12:34	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Qualifier U unics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/05/24 16:25 12/05/24 16:25 12/05/24 16:25 Prepared	Analyzed 12/06/24 12:34 Analyzed 12/06/24 12:34 12/06/24 12:34 12/06/24 12:34 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ior	el Range Organ	Qualifier U Inics (DRO) Qualifier U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/05/24 16:25 12/05/24 16:25 12/05/24 16:25 Prepared 12/05/24 16:25	Analyzed 12/06/24 12:34 Analyzed 12/06/24 12:34 12/06/24 12:34 12/06/24 12:34 Analyzed 12/06/24 12:34	Dil Fa

10.1

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mg/Kg

12/07/24 03:19

Chloride

Surrogate Summary

Client: Carmona Resources

Job ID: 880-51819-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

BFB1	DFBZ1
Client Sample ID (70-130)	(70-130)
Matrix Spike 110	98
Matrix Spike Duplicate 104	96
T-2 (7.0') 95	97
Lab Control Sample 102	105
Lab Control Sample Dup 98	106
Method Blank 221 S1+	142 S1+
Method Blank 221 zene (Surr)	S1+

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-51819-1	T-2 (7.0')	100	78
880-51849-A-1-F MS	Matrix Spike	97	85
880-51849-A-1-G MSD	Matrix Spike Duplicate	98	84
LCS 880-97199/2-A	Lab Control Sample	114	102
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97
MB 880-97199/1-A	Method Blank	96	77

1CO = 1-Chlorooctane

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OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources Job ID: 880-51819-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97190/5-A

Matrix: Solid Analysis Batch: 97035 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97190

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	221	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1
1.4-Difluorobenzene (Surr)	142	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1

Lab Sample ID: LCS 880-97190/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 97035

Prep Type: Total/NA Prep Batch: 97190

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1111	-	mg/Kg		111	70 - 130	
Toluene	0.100	0.1023		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2250		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130	
I and the second								

LCS LCS

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

Lab Sample ID: LCSD 880-97190/2-A

Matrix: Solid

Analysis Batch: 97035

Cilent	Sample	ID: Lab	Control	Sample	Dup

Prep Type: Total/NA Prep Batch: 97190

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	6	35
Toluene	0.100	0.09983		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.08655		mg/Kg		87	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130	7	35
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1 4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-51811-A-1-B MS

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike	е
Prep Type: Total/N/	4

Prep Batch: 97190

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0990	0.09133		mg/Kg		92	70 - 130	
Toluene	0.00326		0.0990	0.09595		mg/Kg		94	70 - 130	

Prep Batch: 97190

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97199

QC Sample Results

Client: Carmona Resources Job ID: 880-51819-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

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

Lab Sample ID: 880-51811-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 97035

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0990	0.09222		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.00422		0.198	0.2097		mg/Kg		104	70 - 130	
o-Xylene	<0.00201	U	0.0990	0.1005		mg/Kg		102	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 70 - 130 98

Lab Sample ID: 880-51811-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 97035									Prep	Batch:	97190
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.101	0.09029		mg/Kg		90	70 - 130	1	35
Toluene	0.00326		0.101	0.08989		mg/Kg		86	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.101	0.08013		mg/Kg		79	70 - 130	14	35
m-Xylene & p-Xylene	0.00422		0.202	0.1919		mg/Kg		93	70 - 130	9	35
o-Xylene	<0.00201	U	0.101	0.09476		mg/Kg		94	70 - 130	6	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 104 1,4-Difluorobenzene (Surr) 96 70 - 130

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

Lab Sample ID: MB 880-97199/1-A

Matrix: Solid

Analysis Batch: 97226

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

MB MB %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 96 12/05/24 16:25 12/06/24 04:08 o-Terphenyl 77 70 - 130 12/05/24 16:25 12/06/24 04:08

Lab Sample ID: LCS 880-97199/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 97226

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1139		mg/Kg		114	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1012		mg/Kg		101	70 - 130
C10-C28)							

Eurofins Midland

Prep Type: Total/NA

Prep Batch: 97199

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

Job ID: 880-51819-1 SDG: Eddy County New Mexico

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

Lab Sample ID: LCS 880-97199/2-A

Lab Sample ID: LCSD 880-97199/3-A

Lab Sample ID: 880-51849-A-1-F MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97199

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 114 70 - 130 o-Terphenyl 102 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97199

Analysis Batch: 97226 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1120 112 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 955.0 95 70 - 1306 20

C10-C28)

Matrix: Solid

Analysis Batch: 97226

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	97		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97199

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 996 864.9 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1340 F1 996 797.7 F1 mg/Kg -54 70 - 130

C10-C28)

MS MS

Lab Sample ID: 880-51849-A-1-G MSD

Surrogate	%Recovery 0	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	85		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97199

Sample Sample MSD MSD %Rec RPD Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 996 878.3 88 20 Gasoline Range Organics mg/Kg 70 - 130 2 (GRO)-C6-C10 Diesel Range Organics (Over 1340 F1 996 811.7 F1 mg/Kg -53 70 - 130 20

C10-C28)

Matrix: Solid

Analysis Batch: 97226

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	84		70 - 130

Eurofins Midland

Released to Imaging: 7/31/2025 11:45:40 AM

QC Sample Results

Client: Carmona Resources Job ID: 880-51819-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97243/1-A Client Sample ID: Method Blank

MB MB

Matrix: Solid Prep Type: Soluble Analysis Batch: 97261

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <10.0 U 10.0 mg/Kg 12/07/24 00:46

Lab Sample ID: LCS 880-97243/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Soluble Analysis Batch: 97261

Spike LCS LCS %Rec

Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 240.9 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-97243/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble Analysis Batch: 97261

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit

Chloride 250 239.7 mg/Kg 90 - 110

Lab Sample ID: 880-51806-A-5-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97261 Spike MS MS Sample Sample %Rec

Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 19.3 F1 249 323.4 F1 122 90 - 110 mg/Kg

Lab Sample ID: 880-51806-A-5-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97261

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 19.3 F1 249 323.8 F1 mg/Kg 123 90 - 110 20

QC Association Summary

Client: Carmona Resources

Job ID: 880-51819-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

GC VOA

Analysis Batch: 97035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Total/NA	Solid	8021B	97190
MB 880-97190/5-A	Method Blank	Total/NA	Solid	8021B	97190
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	8021B	97190
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97190
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97190
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97190

Prep Batch: 97190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Total/NA	Solid	5035	
MB 880-97190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Total/NA	Solid	8015NM Prep	
MB 880-97199/1-A LCS 880-97199/2-A	Method Blank Lab Control Sample	Total/NA Total/NA	Solid Solid	8015NM Prep 8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97199
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97243

-					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Soluble	Solid	DI Leach	
MB 880-97243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 12 of 19

QC Association Summary

Client: Carmona Resources

Job ID: 880-51819-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 97243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51806-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-51806-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 97261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51819-1	T-2 (7.0')	Soluble	Solid	300.0	97243
MB 880-97243/1-A	Method Blank	Soluble	Solid	300.0	97243
LCS 880-97243/2-A	Lab Control Sample	Soluble	Solid	300.0	97243
LCSD 880-97243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97243
880-51806-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	97243
880-51806-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97243

Eurofins Midland

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Lab Chronicle

Client: Carmona Resources

Job ID: 880-51819-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Client Sample ID: T-2 (7.0')

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10 Lab Sample ID: 880-51819-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/06/24 00:37	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97293	12/06/24 00:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			97300	12/06/24 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 12:34	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97243	12/06/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97261	12/07/24 03:19	CH	EET MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-51819-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

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Method Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51819-1 SDG: Eddy County New Mexico

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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: Lusitano 27 CTB 3 Job ID: 880-51819-1

SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51819-1	T-2 (7.0')	Solid	11/26/24 00:00	12/05/24 11:10

Project Manager.
Company Name:

Conner Moehring

Carmona Resources 310 W Wall St Ste 500

Bill to: (if different)

Company Name:

Address:

Devon Energy 5315 Buena Vista Dr

State of Project:

Program: UST/PST PRP Brownfields RRC

_uperfund

Work Order Comments

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Jim Raley

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Chain of Custody

City State ZIP:	Midland TX 79701		City State ZIP	C	adshad I	Cadshad NM 88220				Reporting:Level II Level III ST/UST	≝ Ģ	ST/UST TRRP LevelIV
	(432) 813-6823	Email	Email: jim.raley@dvn.com							Deliverables: EDD	ADa	Other:
Project Name:	Lusitano 27 CTB 3	Turn	Turn Around					ANA	YSIS R	ANALYSIS REQUEST		Preservative Codes
Project Number:	2512	☑ Routine	Rush	Pres. Code								None: NO DI Water: H ₂ O
Project Location	Eddy County, New Mexico	co Due Date:)							Cool: Cool MeOH: Me
Sampler's Name:	CMM & KR											
PO#:		,	9	rs) + N							
SAMPLE RECEIPT	Temp Blank:	Yes No Wet Ice:	Yes No	nete	1B DRC	0.0						H ₃ PO ₄ : HP
Received Intact:	/Yes No	meter ID:	971		802	le 30			_		_	NaHSO4: NABIS
Cooler Custody Seals:	NA	Correction Factor:	C		_	lorio		_				
Sample Custody Seals:	Yes No NIA	Temperature Reading:	-5.1		_	Ch						i: Zn
Total Containers:	(Corrected Temperature:	んと		801							SAPC
Sample Identification	ification Date	Soil	Water Comp	# of Cont	ТРН							Sample Comments ge
T-2 (7.0°)	0') 11/26/2024	×	G	_	×	×						
					+			$\frac{1}{1}$			+	
					+			+			+	
					\dashv		1	+			+	
					_			-			-	
					+		-	+			+	
Comments: Email	Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonare	್ರcarmonaresources.con	n and Conner Mo	hring / c	moehr	ing@ca	monare	sources.com	com		+ *	
	Relinquished by: (Signature)	Signature)		D	Date/Time				771	Received by: (Signature)		Date/Time
1/6	an Tanuar			12/5/	24@	11:02			2			0111 5 14
									K			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51819-1

SDG Number: Eddy County New Mexico

ODG Number: Eddy County New Mexico

Login Number: 51819
List Source: Eurofins Midland
List Number: 1

Creator: Kramer, Jessica

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

Euronnis Milalana

Released to Imaging: 7/31/2025 11:45:40 AM

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/9/2024 9:03:42 AM

JOB DESCRIPTION

Lusitano 27 CTB 3 Eddy County New Mexico

JOB NUMBER

880-51818-1

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 12/9/2024 9:03:42 AM

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

Page 2 of 19 12/9/2024 Released to Imaging: 7/31/2025 11:45:40 AM

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Laboratory Job ID: 880-51818-1 SDG: Eddy County New Mexico

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Definitions/Glossary

Client: Carmona Resources

Job ID: 880-51818-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

2

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 U
 Indicates the analyte was analyzed for but not detected.

HPLC/IC

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 U
 Indicates the analyte was analyzed for but not detected.

Glossary

EDL

AbbreviationThese 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%RPercent RecoveryCFLContains Free LiquidCFUColony Forming UnitCNFContains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Estimated Detection Limit (Dioxin)

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)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Midland

Case Narrative

Client: Carmona Resources Project: Lusitano 27 CTB 3 Job ID: 880-51818-1

Job ID: 880-51818-1 Eurofins Midland

Job Narrative 880-51818-1

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

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

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

Receipt

The sample was received on 12/5/2024 11:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-97190 and analytical batch 880-97035 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97199 and analytical batch 880-97226 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97243 and analytical batch 880-97261 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

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Job ID: 880-51818-1

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Lab Sample ID: 880-51818-1 Client Sample ID: T-2 (8.0')

Date Collected: 11/26/24 00:00 Matrix: Solid Date Received: 12/05/24 11:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	
Toluene	< 0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/24 14:07	12/06/24 00:16	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/24 14:07	12/06/24 00:16	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				12/05/24 14:07	12/06/24 00:16	
1,4-Difluorobenzene (Surr)	101		70 - 130				12/05/24 14:07	12/06/24 00:16	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/06/24 00:16	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 12:18	•
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 12:18	•
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 12:18	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 12:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	103		70 - 130				12/05/24 16:25	12/06/24 12:18	
o-Terphenyl	81		70 - 130				12/05/24 16:25	12/06/24 12:18	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
			9.92		mg/Kg				

Surrogate Summary

Client: Carmona Resources

Job ID: 880-51818-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surroga
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51811-A-1-B MS	Matrix Spike	110	98	
880-51811-A-1-C MSD	Matrix Spike Duplicate	104	96	
880-51818-1	T-2 (8.0')	100	101	
LCS 880-97190/1-A	Lab Control Sample	102	105	
LCSD 880-97190/2-A	Lab Control Sample Dup	98	106	
MB 880-97190/5-A	Method Blank	221 S1+	142 S1+	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-51818-1	T-2 (8.0')	103	81	
880-51849-A-1-F MS	Matrix Spike	97	85	
880-51849-A-1-G MSD	Matrix Spike Duplicate	98	84	
_CS 880-97199/2-A	Lab Control Sample	114	102	
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97	
MB 880-97199/1-A	Method Blank	96	77	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Carmona Resources Job ID: 880-51818-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97190/5-A

Matrix: Solid Analysis Batch: 97035 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 97190

MB MB

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
<0.00400	U	0.00400		mg/Kg		12/05/24 14:07	12/05/24 16:51	1
	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200	Result Qualifier	<0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00400 U 0.00400 <0.00200 U 0.00200	<0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00400 U 0.00400 <0.00200 U 0.00200	<0.00200	<0.00200	<0.00200	<0.00200

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	221	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1
1.4-Difluorobenzene (Surr)	142	S1+	70 - 130	12/05/24 14:07	12/05/24 16:51	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-97190/1-A Matrix: Solid

Analysis Batch: 97035

Prep Type: Total/NA Prep Batch: 97190

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1111	-	mg/Kg		111	70 - 130	
Toluene	0.100	0.1023		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2250		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-97190/2-A

Matrix: Solid

Analysis Batch: 97035

Client	Sample	ID: Lab	Control	Sample	Dup

Prep Type: Total/NA

Prep Batch: 97190

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	6	35	
Toluene	0.100	0.09983		mg/Kg		100	70 - 130	2	35	
Ethylbenzene	0.100	0.08655		mg/Kg		87	70 - 130	16	35	
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130	7	35	
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	5	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-51811-A-1-B MS

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 97190

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0990	0.09133		mg/Kg		92	70 - 130	
Toluene	0.00326		0.0990	0.09595		mg/Kg		94	70 - 130	

Eurofins Midland

Page 8 of 19

QC Sample Results

Client: Carmona Resources Job ID: 880-51818-1 SDG: Eddy County New Mexico Project/Site: Lusitano 27 CTB 3

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

Matrix: Solid

Analysis Batch: 97035

Lab Sample ID: 880-51811-A-1-B MS Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 97190

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U 0.0990 0.09222 93 70 - 130 mg/Kg m-Xylene & p-Xylene 0.00422 0.198 0.2097 mg/Kg 104 70 - 130 <0.00201 U 0.0990 0.1005 o-Xylene mg/Kg 70 - 130 102

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97190

Lab Sample ID: 880-51811-A-1-C MSD **Matrix: Solid**

Analysis Batch: 97035

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.101	0.09029		mg/Kg		90	70 - 130	1	35
Toluene	0.00326		0.101	0.08989		mg/Kg		86	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.101	0.08013		mg/Kg		79	70 - 130	14	35
m-Xylene & p-Xylene	0.00422		0.202	0.1919		mg/Kg		93	70 - 130	9	35
o-Xylene	<0.00201	U	0.101	0.09476		mg/Kg		94	70 - 130	6	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-97199/1-A

Matrix: Solid

Analysis Batch: 97226

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

Prep Batch: 97199

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	12/05/24 16:25	12/06/24 04:08	1
o-Terphenyl	77		70 - 130	12/05/24 16:25	12/06/24 04:08	1

Lab Sample ID: LCS 880-97199/2-A

Matrix: Solid

Analysis Batch: 97226

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

Prep Batch: 97199

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1139		mg/Kg		114	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1012		mg/Kg		101	70 - 130
C10-C28)							

Eurofins Midland

Job ID: 880-51818-1 Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

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

LCS LCS

%Recovery Qualifier

114

102

Lab Sample ID: LCS 880-97199/2-A

Limits

70 - 130

70 - 130

Matrix: Solid

Analysis Batch: 97226

Surrogate

o-Terphenyl

1-Chlorooctane

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97199

Lab Sample ID: LCSD 880-97199/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 97226 Prep Batch: 97199

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1120 112 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 95 955.0 mg/Kg 70 - 1306 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 106 97 70 - 130 o-Terphenyl

Lab Sample ID: 880-51849-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 97226 Prep Batch: 97199 Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 996 864.9 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1340 F1 996 797.7 F1 mg/Kg -54 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits

70 - 130 1-Chlorooctane 97 o-Terphenyl 85 70 - 130

Lab Sample ID: 880-51849-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 97226 Prep Batch: 97199 Sample Sample MSD MSD RPD Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 996 878.3 88 Gasoline Range Organics <49.9 mg/Kg 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 1340 F1 996 811.7 F1 mg/Kg -53 70 - 130 2 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 98 70 - 130 84 70 - 130 o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Carmona Resources Job ID: 880-51818-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97243/1-A

Matrix: Solid

Analysis Batch: 97261

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв MDL Unit Dil Fac Result Qualifier RL D Prepared Analyzed <10.0 U 10.0 mg/Kg 12/07/24 00:46

Lab Sample ID: LCS 880-97243/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 97261

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 240.9 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-97243/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97261

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 239.7 mg/Kg 90 - 110

Lab Sample ID: 880-51806-A-5-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 97261

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 19.3 F1 249 323.4 F1 122 90 - 110 mg/Kg

Lab Sample ID: 880-51806-A-5-E MSD

Matrix: Solid

Analysis Batch: 97261

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 19.3 F1 249 323.8 F1 mg/Kg 123 90 - 110 20

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: Carmona Resources Job ID: 880-51818-1 Project/Site: Lusitano 27 CTB 3 SDG: Eddy County New Mexico

GC VOA

Analysis Batch: 97035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (8.0')	Total/NA	Solid	8021B	97190
MB 880-97190/5-A	Method Blank	Total/NA	Solid	8021B	97190
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	8021B	97190
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97190
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97190
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97190

Prep Batch: 97190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (8.0')	Total/NA	Solid	5035	
MB 880-97190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51811-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-51811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (8.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

Lab Sample ID 880-51818-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (8.0')	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97199
880-51849-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (8.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97243

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (8.0')	Soluble	Solid	DI Leach	
MB 880-97243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

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QC Association Summary

Client: Carmona Resources

Job ID: 880-51818-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 97243 (Continued)

Lab San	nple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-518	06-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-518	06-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 97261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (8.0')	Soluble	Solid	300.0	97243
MB 880-97243/1-A	Method Blank	Soluble	Solid	300.0	97243
LCS 880-97243/2-A	Lab Control Sample	Soluble	Solid	300.0	97243
LCSD 880-97243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97243
880-51806-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	97243
880-51806-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97243

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Lab Chronicle

Client: Carmona Resources

Job ID: 880-51818-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Client Sample ID: T-2 (8.0')

Lab Sample ID: 880-51818-1

Matrix: Solid

Date Collected: 11/26/24 00:00 Date Received: 12/05/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	97190	12/05/24 14:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97035	12/06/24 00:16	EL	EET MID
Total/NA	Analysis	Total BTEX		1			97292	12/06/24 00:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			97299	12/06/24 12:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97199	12/05/24 16:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97226	12/06/24 12:18	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97243	12/06/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97261	12/07/24 03:14	CH	EET MID

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-51818-1

Project/Site: Lusitano 27 CTB 3

SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAF)	T104704400	06-30-25
The following analytes	are included in this report, bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
for which the agency de	and not offer cortification	•	, , ,	•
ior willout the agency u	bes not oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3

Job ID: 880-51818-1 SDG: Eddy County New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources Project/Site: Lusitano 27 CTB 3 Job ID: 880-51818-1

SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51818-1	T-2 (8.0')	Solid	11/26/24 00:00	12/05/24 11:10

Project Manager: Company Name:

Conner Moehring

Bill to: (if different) Company Name:

Jim Raley

Work Order Comments

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	ha		Comments: Email							T-2 (8.0")	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:
	Russ	Relinquishe	Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmon							0") 11/26/2024	tification Date		s: Yes No N/A	Yes No NIA	Yes No	PT Femp Blank:		CMM & KR	Eddy County, New Mexico	2512	Lusitano 27 CTB 3	(432) 813-6823	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources
		Relinquished by: (Signature)	mona@carmonare:						!	24		Corrected Temperature:	Temperature Reading:	Correction Factor.	Thermometer ID:	Yes No)	Z		n	CTB 3				
			sources.con							×	Soil	ature:	ing:			Wet ice:			Due Date:	⊠ Routine	Turn	Email:			
			n and Conner N							G	Water Comp	75.2	5	0	166	(Yes No				Rush	Turn Around	Email: jim.raley@dvn.com	City, State ZIP:	Address:	Company Name:
	13/5/	D	loehring /							-1	# of			P	araı	nete	ers			Code		com	0	On On	0
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											Sar	NaOH+A	Zn Aceta	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Pre	ADaPT 🗆	7		Program: UST/PST ☐PRP ☐Brownfields ☐RRC
	12/5	Dat									Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	NaSO ₃	NABIS	Ð					Preservative Codes	Other:	∐'RRP _		
	25	Date/Time									nments	id: SAPC	Zn				NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Codes		Level IV	7	□uperfund □

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-51818-1

SDG Number: Eddy County New Mexico

List Source: Eurofins Midland

Login Number: 51818 List Number: 1

Creator: Kramer, Jessica

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

Released to Imaging: 7/31/2025 11:45:40 AM



April 02, 2025

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: LUSITANO 27 CTB 3

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 12:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

LUSITANO 27 CTB 3

Project Name: LUSIT Project Number: 2512

Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: CS - 1 (4.5') (H251837-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2025	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	85.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.3	% 40.6-15	3						

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Celey D. Keene



Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

Project Name: LUSITANO 27 CTB 3

Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: CS - 2 (4.5') (H251837-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	< 0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
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	03/29/2025	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	84.3	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	76.1	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

04/02/2025 LUSITANO 27 CTB 3

Project Name: LUSI Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: CS - 3 (4.5') (H251837-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
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	03/29/2025	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	84.1	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	76.8	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

04/02/2025 LUSITANO 27 CTB 3

Project Name: LUSITANC Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: CS - 4 (4.5') (H251837-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
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	03/29/2025	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	89.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	81.6	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported:

04/02/2025 LUSITANO 27 CTB 3

Project Name: Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: CS - 5 (4.5') (H251837-05)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	90.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.0	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

LUSITANO 27 CTB 3

Project Name: LUSIT Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 1 (4.5') (H251837-06)

True Value QC	RPD	Qualifier
2.00	1.09	
2.00	1.96	
2.00	2.85	
6.00	3.25	
True Value QC	RPD	Qualifier
400	0.00	
True Value QC	RPD	Qualifier
200	2.82	
200	2.36	
	200	200 2.82

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

03/27/2025 04/02/2025

Project Name: LUSITANO 27 CTB 3

Project Number: 2512

Received:

Reported:

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 2 (4.5') (H251837-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	80.5	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

LUSITANO 27 CTB 3

Project Name: LUSI Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 3 (4.5') (H251837-08)

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	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.0	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

Project Name: LUSITANO 27 CTB 3

Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 4 (4.5') (H251837-09)

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	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	< 0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	80.2	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

LUSITANO 27 CTB 3

Project Name: LUSI Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 5 (4.5') (H251837-10)

			Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<u>*</u>	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
nzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
lenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
EX	<0.300	0.300	03/31/2025	ND					
te: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
e, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
.5M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
O >C28-C36	<10.0	10.0	03/28/2025	ND					
te: 1-Chlorooctane	96.6	% 44.4-14	5						
Analyte Analyte Analyte C10* C10-C28*	Result <16.0 mg/	Reporting Limit 16.0 //kg Reporting Limit 10.0 10.0	Analyzed 03/28/2025 Analyzed Analyzed 03/28/2025 03/28/2025	Method Blank ND d By: MS Method Blank ND ND	432 BS 213	% R	108 Recovery	108 400 Recovery True Value QC 106 200	108 400 0.00 Recovery True Value QC RPD 106 200 2.82

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

LUSITANO 27 CTB 3

Project Name: LUSI Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 6 (4.5') (H251837-11)

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	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	85.2	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	81.2	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

04/02/2025 LUSITANO 27 CTB 3

Project Name: LUSI Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 7 (4.5') (H251837-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	82.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	75.8	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

LUSITANO 27 CTB 3

Project Name: LUSI Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 8 (4.5') (H251837-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	81.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	74.4	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported:

04/02/2025

Sampling Type: Sampling Condition:

Sampling Date:

03/26/2025 Soil

Project Name:

LUSITANO 27 CTB 3 2512

Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

DEVON - EDDY COUNTY, NEW MEXICO

Sample ID: SW - 9 (4.5') (H251837-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.8	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

Project Name: LUSITANO 27 CTB 3

Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 10 (4.5') (H251837-15)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	90.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	83.1 % 40.6-153		3						

Applyzod By: 14

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025

04/02/2025

Project Name: LUSITANO 27 CTB 3

Project Number: 2512

Reported:

Project Location: DEVON - EDDY COUNTY, NEW MEXICO Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 11 (4.5') (H251837-16)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	87.4	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.6	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

Received: 03/27/2025 Reported: 04/02/2025

Project Name: LUSITANO 27 CTB 3

Project Number: 2512

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sampling Date: 03/26/2025

Sampling Type: Soil

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

Sample ID: SW - 12 (4.5') (H251837-17)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	2.14	107	2.00	1.09	
Toluene*	<0.050	0.050	03/31/2025	ND	2.17	109	2.00	1.96	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	2.39	120	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	7.28	121	6.00	3.25	
Total BTEX	<0.300	0.300	03/31/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.1	% 40.6-15	3						

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Analytical Results For:

CARMONA RESOURCES CONNER MOEHRING 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:

 Received:
 03/27/2025
 Sampling Date:
 03/26/2025

 Reported:
 04/02/2025
 Sampling Type:
 Soil

Project Name: LUSITANO 27 CTB 3 Sampling Condition: Cool & Intact
Project Number: 2512 Sample Received By: Tamara Oldaker

Project Location: DEVON - EDDY COUNTY, NEW MEXICO

Sample ID: SW - 13 (4.5') (H251837-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2025	ND	1.98	98.8	2.00	5.99	
Toluene*	<0.050	0.050	03/30/2025	ND	2.39	119	2.00	5.42	
Ethylbenzene*	< 0.050	0.050	03/30/2025	ND	2.59	129	2.00	5.19	QM-07
Total Xylenes*	<0.150	0.150	03/30/2025	ND	8.24	137	6.00	4.69	QM-07
Total BTEX	<0.300	0.300	03/30/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	139	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	213	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	202	101	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	78.8	% 40.6-15	3						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Page 22 of 22

Report to:
Miranda Milwee







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Carmona Resources

Project Name: RDX 21-22

Work Order: E408055

Job Number: 01058-0007

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/8/24

Miranda Milwee 310 West Wall St. Suite 415 Midland, TX 79701

Project Name: RDX 21-22 Workorder: E408055

Date Received: 8/7/2024 10:30:00AM

Miranda Milwee,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 10:30:00AM, under the Project Name: RDX 21-22.

The analytical test results summarized in this report with the Project Name: RDX 21-22 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Sample Summary

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ſ	Carmona Resources	Project Name:	RDX 21-22	Reported:
l	310 West Wall St. Suite 415	Project Number:	01058-0007	Reported.
l	Midland TX, 79701	Project Manager:	Miranda Milwee	08/08/24 13:42

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
MOS Crushing Pit	E408055-01A Soil	08/06/24	08/07/24	Glass Jar, 4 oz.



Sample Data

Carmona Resources	Project Name:	RDX 21-22	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
Midland TX, 79701	Project Manager:	Miranda Milwee	8/8/2024 1:42:01PM

MOS Crushing Pit

E408055-01

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2432052
Benzene	ND	0.0250	1	08/07/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/07/24	
Toluene	ND	0.0250	1	08/07/24	08/07/24	
o-Xylene	ND	0.0250	1	08/07/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/07/24	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2432052
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2432044
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
Surrogate: n-Nonane		83.0 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2432048
		20.0	·	08/07/24	08/07/24	



RDX 21-22 Carmona Resources Project Name: Reported: 310 West Wall St. Suite 415 Project Number: 01058-0007 Midland TX, 79701 Project Manager: Miranda Milwee 8/8/2024 1:42:01PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2432052-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.31 8.00 91.4 70-130 LCS (2432052-BS1) Prepared: 08/07/24 Analyzed: 08/07/24 5.21 104 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.91 0.0250 5.00 98.1 70-130 5.14 0.0250 5.00 103 70-130 Toluene o-Xylene 4.98 0.0250 5.00 99.6 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 101 70-130 15.1 15.0 Total Xylenes 0.0250 8.00 91.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.31 Matrix Spike (2432052-MS1) Source: E408050-09 Prepared: 08/07/24 Analyzed: 08/07/24 4.39 0.0250 5.00 ND 54-133 Benzene ND 82.5 61-133 Ethylbenzene 4.12 0.0250 5.00 Toluene 4.33 0.0250 5.00 ND 86.5 61-130 4.20 ND 83.9 63-131 5.00 0.0250 o-Xylene p,m-Xylene 8.52 0.0500 10.0 ND 85.2 63-131 12.7 0.0250 15.0 ND 63-131 Total Xylenes 7.22 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.00 Matrix Spike Dup (2432052-MSD1) Source: E408050-09 Prepared: 08/07/24 Analyzed: 08/07/24 4.88 0.0250 5.00 ND 97.7 54-133 10.7 20 61-133 11.2 4.61 0.0250 5.00 ND 92.3 20 Ethylbenzene 61-130 Toluene 4 82 0.0250 5.00 ND 96.4 10.8 20 4.68 5.00 ND 93.7 63-131 11.0 20 o-Xylene 0.0250 9.52 10.0 ND 95.2 63-131 11.0 20 p,m-Xylene 0.0500



14.2

7.15

0.0250

15.0

8.00

ND

94.7

89.4

63-131

70-130

11.0

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Carmona Resources 310 West Wall St. Suite 415	Project Name: Project Number:	RDX 21-22 01058-0007	Reported:
Midland TX, 79701	Project Manager:	Miranda Milwee	8/8/2024 1:42:01PM

Midland TX, 79701		Project Manager	r: Mi	iranda Milwe	e			8/8	/2024 1:42:01PM			
	Nonhalogenated Organics by EPA 8015D - GRO											
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes			
Blank (2432052-BLK1)							Prepared: 0	8/07/24 Analy	zed: 08/07/24			
Gasoline Range Organics (C6-C10)	ND	20.0										
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.35		8.00		104	70-130						
LCS (2432052-BS2)							Prepared: 0	8/07/24 Analy	zed: 08/07/24			
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	70-130						
Matrix Spike (2432052-MS2)				Source:	E408050-	09	Prepared: 0	8/07/24 Analy	zed: 08/07/24			
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130						
Matrix Spike Dup (2432052-MSD2)				Source:	E408050-	09	Prepared: 0	8/07/24 Analy	zed: 08/07/24			
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	3.55	20				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.57		8.00		107	70-130						

Carmona Resources	Project Name:	RDX 21-22	Reported:
310 West Wall St. Suite 415	Project Number:	01058-0007	·
Midland TX, 79701	Project Manager:	Miranda Milwee	8/8/2024 1:42:01PM

Midland 1X, /9/01		Project Manage	r: Mi	randa Milwe	e				8/8/2024 1:42:01PW
_	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432044-BLK1)							Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	48.3		50.0		96.6	50-200			
LCS (2432044-BS1)							Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
urrogate: n-Nonane	46.5		50.0		93.0	50-200			
Matrix Spike (2432044-MS1)				Source:	E408048-0	01	Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
urrogate: n-Nonane	47.2		50.0		94.5	50-200			
Matrix Spike Dup (2432044-MSD1)				Source:	E408048-0)1	Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132	0.902	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			



Carmona Resources		Project Name:		DX 21-22					Reported:
310 West Wall St. Suite 415 Midland TX, 79701		Project Number: Project Manager:		01058-0007 Miranda Milwee					8/8/2024 1:42:01PM
Middle 11, 77701				300.0/9056A					Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2432048-BLK1)							Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Chloride	ND	20.0							
LCS (2432048-BS1)							Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2432048-MS1)				Source:	E408048-	03	Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Chloride	754	200	250	343	165	80-120			M1
Matrix Spike Dup (2432048-MSD1)				Source:	E408048-	03	Prepared: 0	8/07/24 A	nalyzed: 08/07/24
Chloride	636	200	250	343	117	80-120	17.0	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Carmona Resources	Project Name:	RDX 21-22	
ı	310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
ı	Midland TX, 79701	Project Manager:	Miranda Milwee	08/08/24 13:42

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Work (Order No:	E	408022
	Job	#	£000-82010

Project Manager:	Mirand	a Milwee				Bill to: (#	different)	والمعالمة والمعالمة	Jim F	Raley				Samuel Comment	100	Work Order Comments								
Company Name:	Carmo	ına Resou	urces			Company	y Name:	MES	Devon Energy				Program: UST/PST PRP Frownfields RRC upperfund											
Address,	310 W	Wall St S	Ste 500			Address		Hexali	5315 Buena Vista Dr					State of Project:										
City, State ZIP:	Midlan	d, TX 797	701		City, State ZIP: Carlsbad NM, 88220							Reporting:Level III Devel III DST/UST DRRP Devel IV						RRP LevelIV						
Phone:		313-9652			Ema	i: jim,rale)		om		Deliverables: EDD					AD	ADaPT Other								
Project Name:	T		RDX 21-22		Tur	n Around							ANA	LYSIS R	EQUES	r	244,73		Pre	servative Codes				
Project Number:					Rush		Pres. Code		T		T		T	T	T	\neg	TT	None: NO						
Project Location		Eddy C	County, New	Mexico	Due Date:	24 H	r TAT							1		\top			Cool: Coo					
Sampler's Name:			MM			-	75.80.775.			MRO)									HCL: HC	HNO ₃ ; HN				
PO#:			12490199		Su.			-								1 1			H ₂ S0 ₄ : H ₂					
SAMPLE RECE	EIPT	Tem	p Blank:	Yes No	Wet Ice:	Yes No		eter	m	DRO	0 0								H ₂ PO ₄ : H					
Received Intact	(Yes) No			Thermometer ID);	140		Parameters	BTEX 8021B	~ +	Chloride 300								NaHSO ₄ .					
Cooler Custody Sea	als:	Yes	NO N/A	Correction Factor			5		ă	8	Di vo								Na ₂ S ₂ O ₃	NaSO ₃				
Sample Custody Se	eals:	Yes (No N/A	Temperature Re Corrected Temp						d _o C			8	8015M (GRO	C								Zn Acetat	e+NaOH: Zn
Total Containers:			1						Corrected Temp	Corrected Temp	perature:													
Sample Ide	entificatio	on	Date		Soil	Water	Grab/ Comp			H.									San	nple Comments				
MOS Cru	ishing Pit		8/6/2024		X		С	1	×	×	х									1				
																				-				
						1								1		T								
						1								+		1	_							
									1					1		+	_		_					
Comments: Ema	ail to Mik	e Carmo	na / Mcarm	ona@carmona	resources.com	m, Conne	r Moehr	ing / Cn	noehr	ing@	carmo	naresou	rces.co	m, and	Miranda	Milwee	/ milwee	m@carm	onaresour	es.com				
																×								
		R	elinquished	by: (Signature)					Date/	Time				F	eceived	by: (Sigr	nature)			Date/Time				
	Conner Moehring Michelle Gonzales						-		Me	holl	la da	nzalo	a				8-6-24 12							
	Michello Gondalos					8-6-2	24 1	7:0	5		0.000	0	nzale		AM			8-6-24 17						
	AM Therease gonzaces					8-6-2	24 2	3:30	5		00	11-	1	1	_			8/2/24 10:						
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Printed: 8/7/2024 4:01:17PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Carmona Resources	Date Received:	08/07/24 10	:30		Work Order ID:	E408055
Phone:	(432) 813-6823	Date Logged In:	08/07/24 08	:20		Logged In By:	Raina Schwanz
Email:		Due Date:	08/08/24 17	:00 (1 day TAT)			
	Custody (COC)						
	ne sample ID match the COC?	-1- d COC	Yes				
	ne number of samples per sampling site location mat	cn the COC	Yes				
	amples dropped off by client or carrier? e COC complete, i.e., signatures, dates/times, reques	tod amalyana?	Yes No	Carrier: <u>C</u>	<u>Courier</u>		
	ll samples received within holding time?	ated analyses?	Yes				
5. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		168	_		Comment	s/Resolution
	Turn Around Time (TAT)				Time campl	ad not listad	on COC by client.
	e COC indicate standard TAT, or Expedited TAT?		Yes		Time samp	eu noi nsieu	on coc by chem.
Sample (
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample (Container	_					
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct containers?	•	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field Lal	<u>oel</u>						
	field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
	ate/Time Collected?		No No				
	Preservation		NO				
	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multiphas	se?	No				
	, does the COC specify which phase(s) is to be analy		NA				
	act Laboratory						
	amples required to get sent to a subcontract laborator	rv?	No				
	subcontract laboratory specified by the client and if	•		ubcontract Lab	· NA		
				uo commute Luo			
CHent II	<u>nstruction</u>						

Date

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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 478205

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	478205
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2423965135
Incident Name	NAPP2423965135 LUSITANO 27 CTB 3 @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2122855364] LUSITANO 27 CTB 3

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LUSITANO 27 CTB 3
Date Release Discovered	08/26/2024
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	Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 12 BBL Recovered: 5 BBL Lost: 7 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)	pinhole on ball valve on main water line caused spill. 11.6 bbls spilled onto pad. 5 bbls recovered	

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

QUESTIONS, Page 2

Action 478205

QUESTIONS (continued)

QUESTI	ONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 478205
Gridinal Gry, GK 70102	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s The source of the release has been stopped	I .
The impacted area has been secured to protect human health and the environment	True True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 06/24/2025

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 3

Action 478205

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	478205
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 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	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission Yes		
Attach a comprehensive report dem	onstrating the lateral and vertical extents of soil contamination a	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	extents of contamination been fully delineated	Yes
Was this release entirely cor	ntained within a lined containment area	No
Soil Contamination Sampling:	(Provide the highest observable value for each, in milli	grams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	2880
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	8240
GRO+DRO	(EPA SW-846 Method 8015M)	8240
BTEX	(EPA SW-846 Method 8021B or 8260B)	122
Benzene	(EPA SW-846 Method 8021B or 8260B)	1.2
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	03/20/2025
On what date will (or did) the	final sampling or liner inspection occur	03/26/2025
On what date will (or was) th	e remediation complete(d)	03/27/2025
What is the estimated surface	e area (in square feet) that will be reclaimed	1876
What is the estimated volume (in cubic yards) that will be reclaimed 137		137
What is the estimated surface area (in square feet) that will be remediated 1055		1055
What is the estimated volume (in cubic yards) that will be remediated 181		181
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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 478205

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	478205
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
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.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: James Raley
Title: EHS Professional
Email: jim.raley@dvn.com
Date: 06/24/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 478205

QUEST	IONS (continued)	
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 478205 Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	
QUESTIONS		
Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	f 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	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes	
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	A 6"-8" buffer zone on each side of Devons' equipment, and underneath the equipment, site will be deferred per 19.15.29.12.C.2 NMAC. To remove all contaminated material, n facility deconstruction would have to take place. Removing soil within that buffer zone of potentially cause structural instability and might result in additional releases in the future backfill material can shift and settle over time. The deferred areas are defined by the following composite confirmation sidewall samples: SW-10 through SW-11. Approxima 821 square feet, 137 cubic yards, of contamination was left in place under the site equipment.	
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	821	
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	137	
	iately under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or when	
Enter the facility ID (f#) on which this deferral should be granted	LUSITANO 27 CTB 3 [fAPP2122855364]	
Enter the well API (30-) on which this deferral should be granted	Not answered.	
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface it does not relieve the operator of responsibility for compliance with any other federal, state, or	
Lharaby garea and sign off to the above statement	Name: James Raley Title: EHS Professional	

Email: jim.raley@dvn.com Date: 06/24/2025

I hereby agree and sign off to the above statement

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 6

Action 478205

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	478205
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	444872	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2025	
What was the (estimated) number of samples that were to be gathered	19	
What was the sampling surface area in square feet	1100	

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	No	

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

CONDITIONS

Action 478205

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	478205
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created	By Condition State of the Condition State of	Condition Date
rhamle	Devon's deferral requests final remediation for (Incident Number: NAPP2423965135) until final reclamation of the well pad or major construction, whichever comes first. Carmona Resources and Devon do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 5 that is limited to the area beneath and on the sides of active production equipment where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	7/31/2025