

CARMONA RESOURCES



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

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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

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



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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

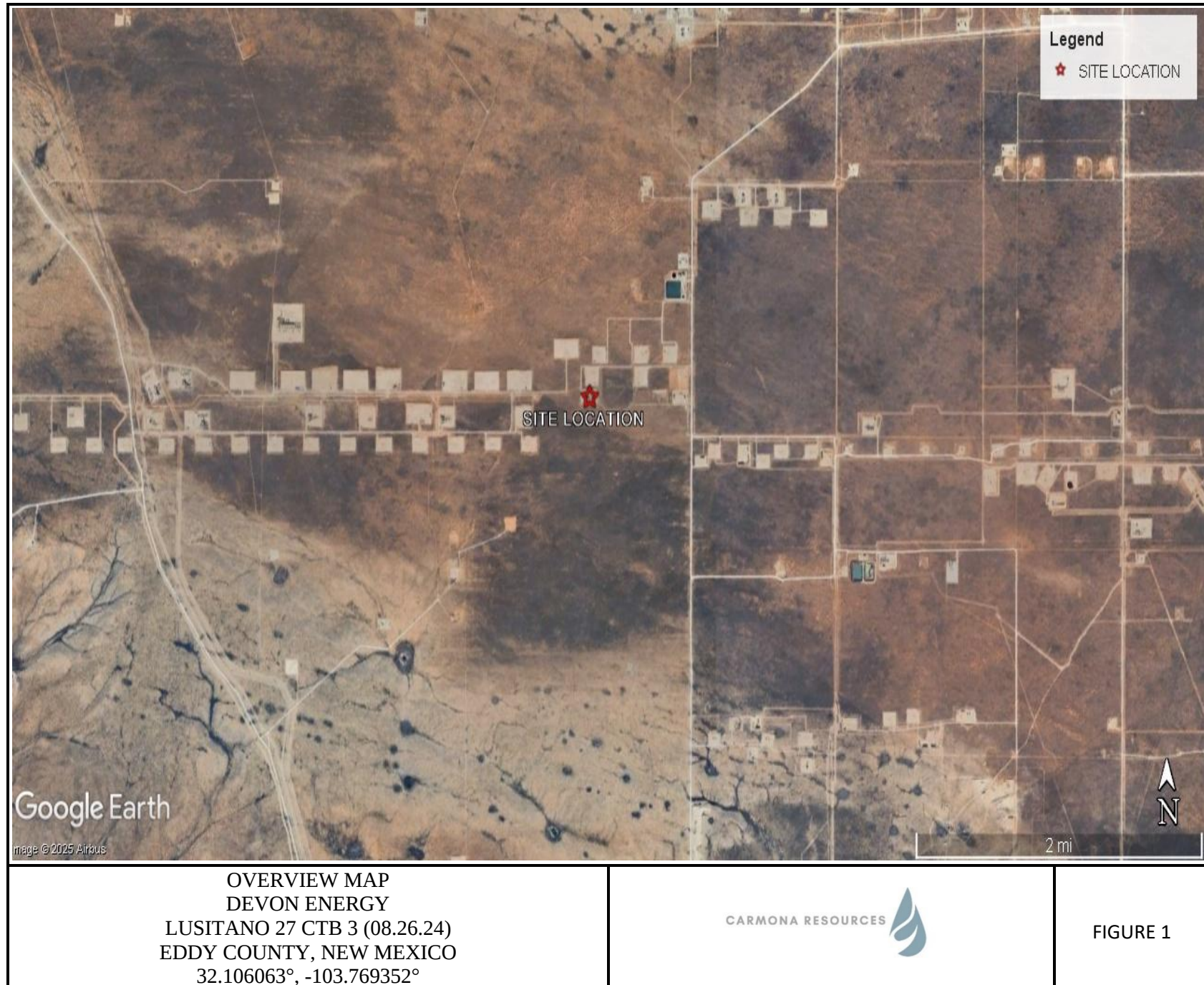
Ivan Ramos
Project Manager

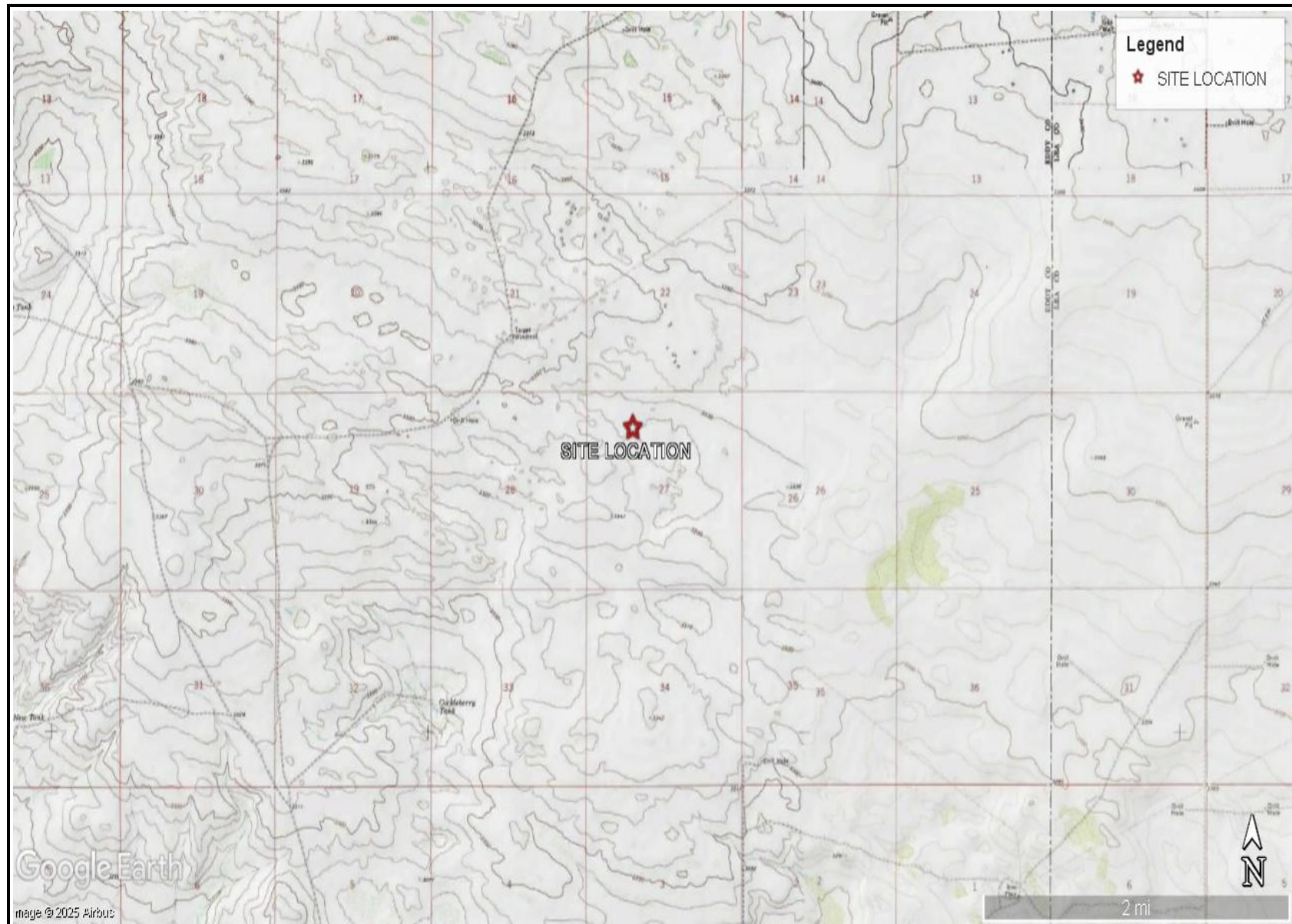
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FIGURES

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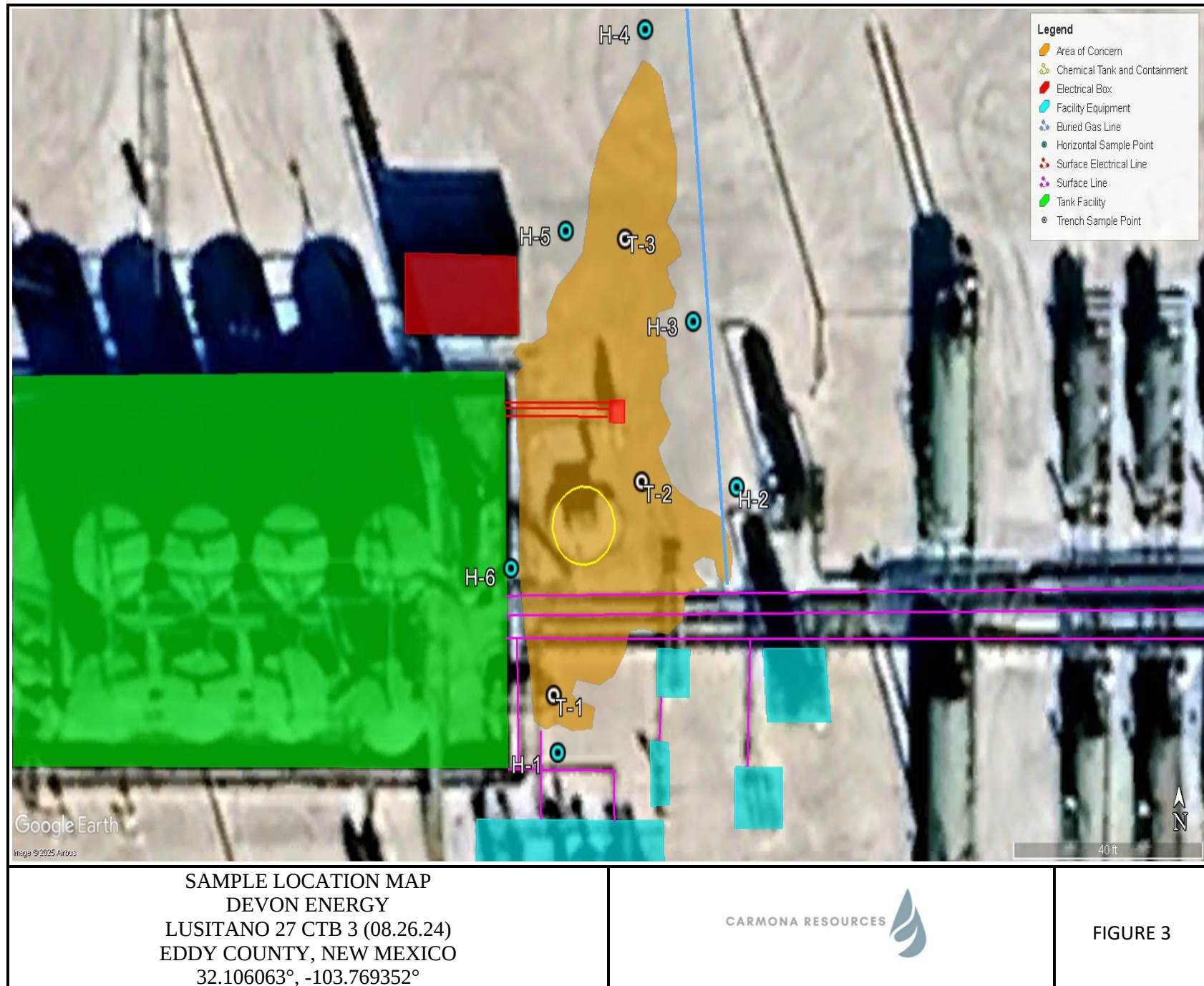


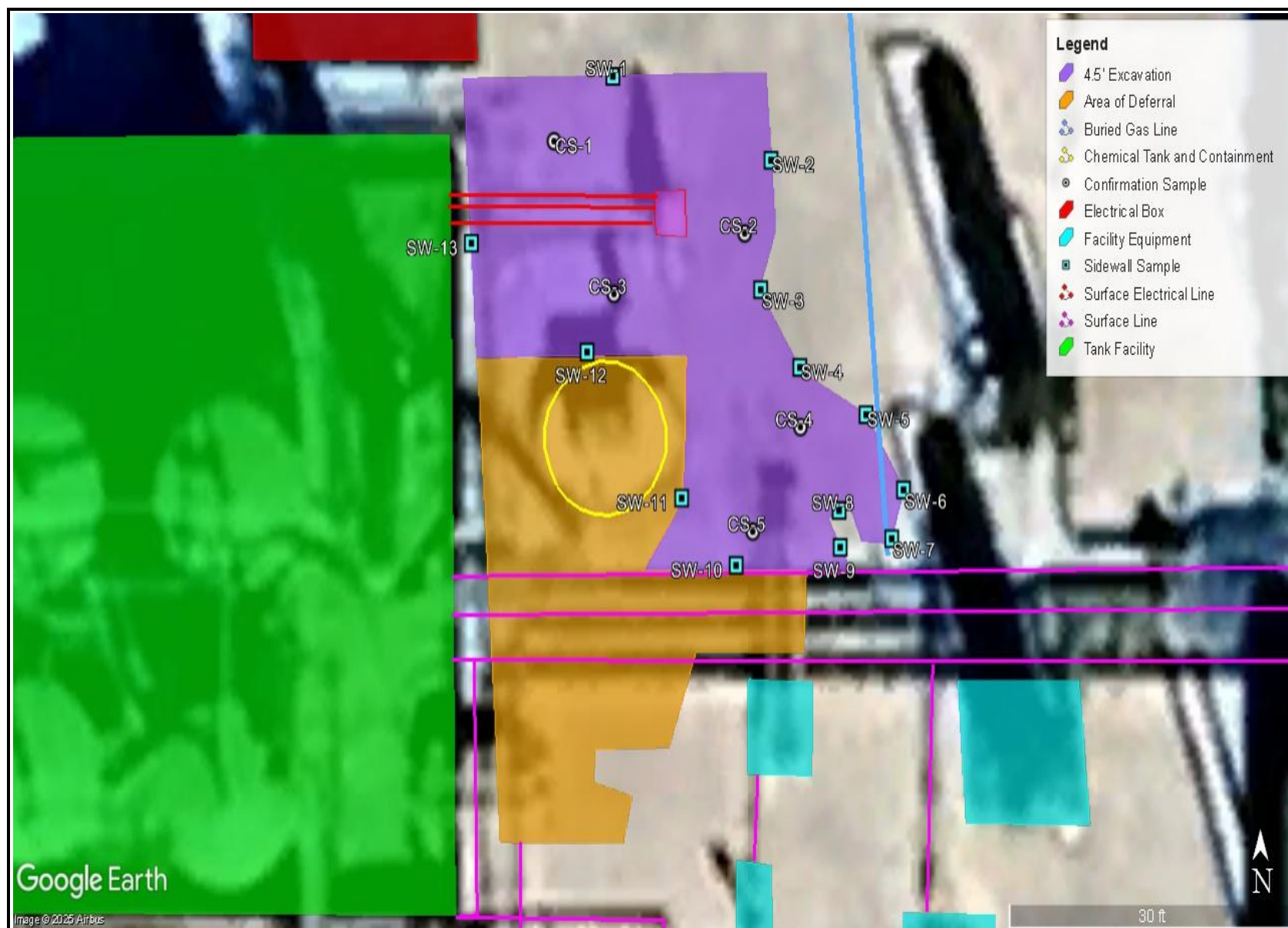


TOPOGRAPHIC MAP
DEVON ENERGY
LUSITANO 27 CTB 3 (08.26.24)
EDDY COUNTY, NEW MEXICO
32.106063°, -103.769352°



FIGURE 2





EXCAVATION MAP
DEVON ENERGY
LUSITANO 27 CTB 3 (08.26.24)
EDDY COUNTY, NEW MEXICO
32.106063°, -103.769352°



FIGURE 4



APPENDIX A

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

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	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
	"	4.0'	1,190	2,720	<50.0	3,910	<0.101	2.32	1.27	19.7	23.3	111
	"	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
	"	8.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	0.00343	<0.00202	0.0148	0.0182	123
T-2	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
	"	4.0'	689	1,710	<49.9	2,400	<0.0996	1.19	0.931	10.1	12.2	127
	"	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
T-3	11/26/2024	0-1'	<49.8	490	<49.8	490	<0.00200	0.00625	0.00365	0.134	0.144	80.1
	"	2.0'	<50.0	180	<50.0	180	<0.00199	0.00824	0.00245	0.0799	0.0906	110
	"	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
Regulatory 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

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	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
Regulatory 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

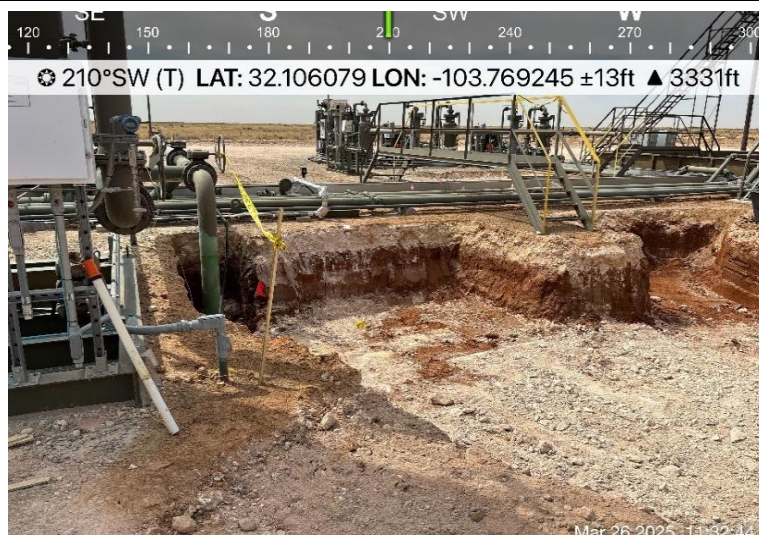
Photograph No. 4

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

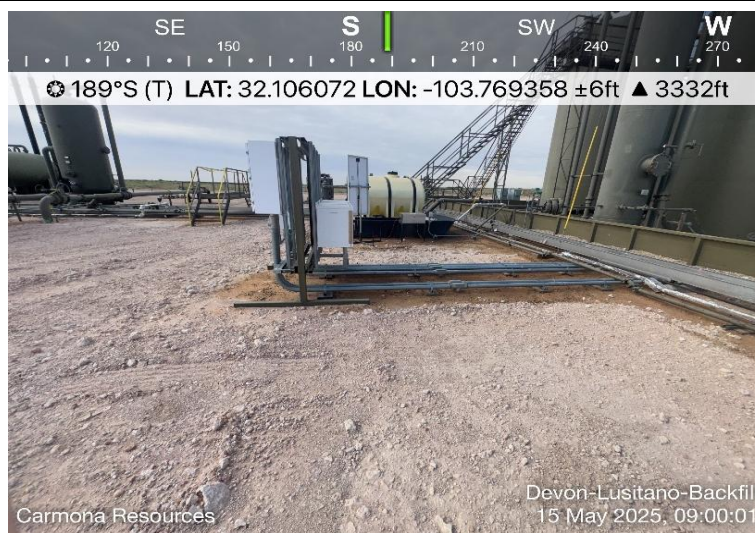
Photograph No. 7

Facility: Lusitano 27 CTB 3 (08.26.2024)

County: Eddy County, New Mexico

Description:

View South of backfilled area.



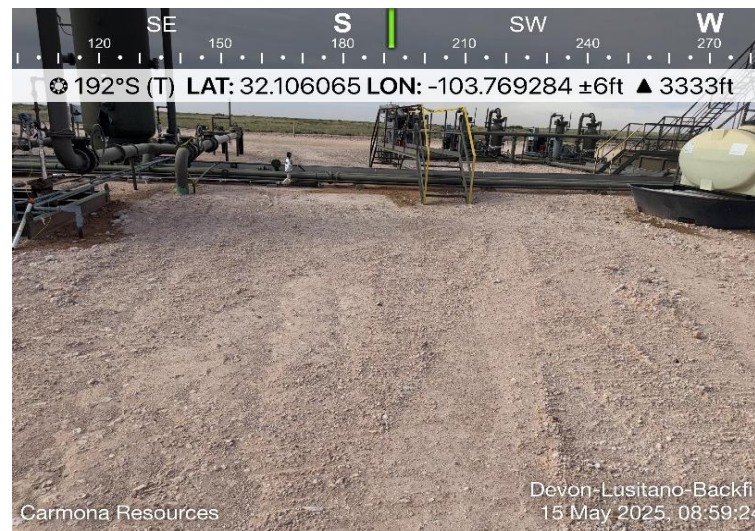
Photograph No. 8

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
District IV
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: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 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

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

District I

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District III

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District IV

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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 378053

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 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 safety hazard that would result in injury.

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

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

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

ACKNOWLEDGMENTS

Action 378053

ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

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

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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

CONDITIONS

Action 378053

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition 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	
<i>Inputs in blue , Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>2726.463</u>	<u>0.250</u>
Cubic Feet of Soil Impacted	<u>56.801</u>
Barrels of Soil Impacted	<u>10.13</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>1.52</u>
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.15
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>2726.463</u>	<u>0.250</u>
Standing fluid	<u>10.125</u>
<u>Total fluids spilled</u>	<u>11.644</u>

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QUESTIONS

Action 378098

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 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	
<i>Please answer all the questions in this group.</i>	
Site Name	LUSITANO 27 CTB 3
Date Release Discovered	08/26/2024
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: 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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QUESTIONS, Page 2

Action 378098

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 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. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/27/2024
--	--

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QUESTIONS, Page 3

Action 378098

QUESTIONS (continued)

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

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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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 for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

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.	

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CONDITIONS

Action 378098

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
scwells	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: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 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

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CONDITIONS

Action 444872

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
jralej	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 <Jim.Raley@dvn.com>
Sent: Tuesday, November 19, 2024 6:23 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>
Subject: [EXTERNAL] Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135- Extension Request

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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@devon.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
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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 | jim.rale@dvn.com



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
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From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Tuesday, November 19, 2024 6:23 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>
Subject: [EXTERNAL] Devon Energy - Lusitano 27 CTB 3 - nAPP2423965135- Extension Request

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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
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C: (575)689-7597 | jim.raley@devon.com



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APPENDIX D

CARMONA RESOURCES



Nearest water well

Devon Energy

Legend

- 0.40 Miles
- 0.50 Mile Radius
- Groundwater Determination Bore
- LUSITANO 27 CTB 3 (08.26.2024)



55' GWDB - Drilled 2022

LUSITANO 27 CTB 3 (08.26.2024)



Medium Karst

Devon Energy

Legend

- 0.40 Miles
- 0.50 Mile Radius
- Groundwater Determination Bore
- LUSITANO 27 CTB 3 (08.26.2024)

LUSITANO 27 CTB 3 (08.26.2024)





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	Map	Distance	Well Depth	Depth Water	Water Column
C 04619 POD1		CUB	ED	NE	NW	NE	27	25S	31E	616749.8	3552958.1		557	55		
C 02250		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			
C 04826 POD1		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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4619			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 24.94	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	45	45.26	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec.27 T25S R31S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/2/2022	DRILLING ENDED 6/2/2022	DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT)	N/A	DATE STATIC MEASURED 6/7/2022	
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐		
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4619-POD1	POD NO. POD1	TRN NO. 725954
LOCATION 255 31E 27	2-1-2	WELL TAG ID NO. N/A

PAGE 1 OF 2

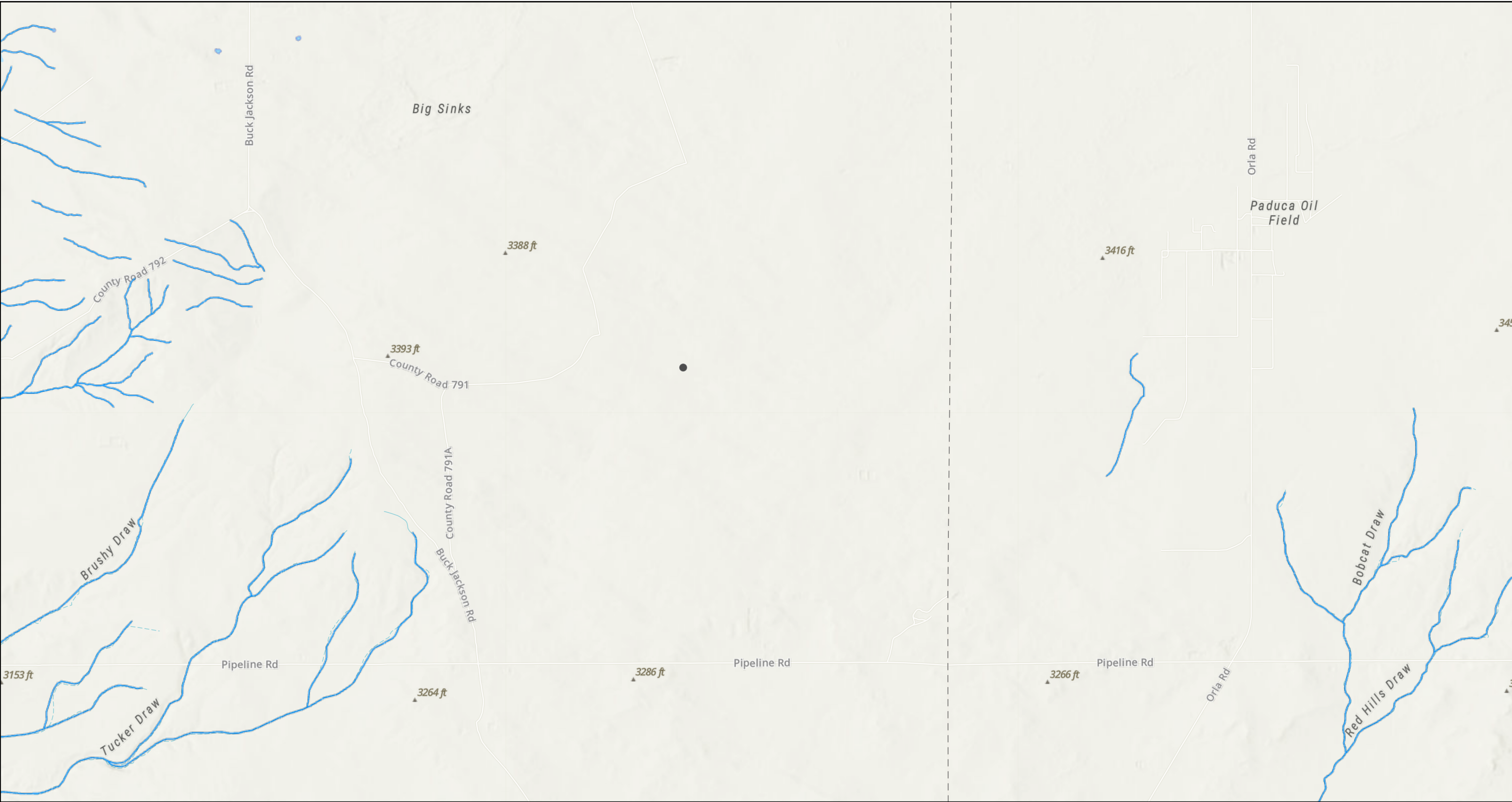
4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, Fine-grained, poorly graded, 5 YR 5/3, Reddish Brown	Y ✓ N	
	4	24	20	Sand, Fine-grained, poorly graded, with Caliche, 7.5 YR 7/4, Pink	Y ✓ N	
	24	55	31	Sand, Fine-grained, poorly graded, unconsolidated, 7.5 YR 7/6, Reddish Yellow	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:					WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 24 Lusitano 27 34 Fed Com 734 DSE DTJ JUN 10 2022 AM 9:22
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE
	 Jackie D. Atkins 6/9/2022	

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	C-4419	POD NO.	POD1
LOCATION	755 315 77	WELL TAG ID NO.	W7
		PAGE 2 OF 2	

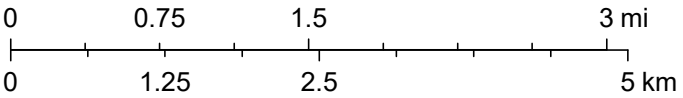
LUSITANO 27 CTB 3 (08.26.2024)



8/28/2024, 11:30:16 AM

- OSW Water Bodies
- OSE Streams

1:72,224



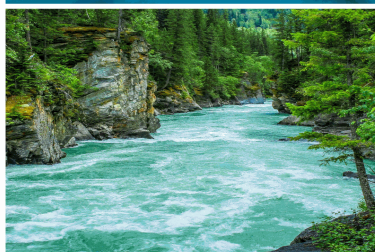
Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, NM OSE

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 regarding 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	
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.



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Lusitano 27 CTB 3 Project Number: 01058-0007 Project Manager: Conner Moechring	Reported: 9/16/2024 12:54:21PM
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H1 (0-0.5')
E409075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	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	Analyst: NV		Batch: 2437048	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/14/24	
Surrogate: n-Nonane	83.8 %	50-200		09/11/24	09/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2437054	
Chloride	ND	20.0	1	09/11/24	09/11/24	

Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Lusitano 27 CTB 3
Project Number: 01058-0007
Project Manager: Conner Moehring

Reported:
9/16/2024 12:54:21PM

H2 (0-0.5')**E409075-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2437051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
		74.6 %	50-200	09/11/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437054	
Chloride	ND	20.0	1	09/11/24	09/11/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Lusitano 27 CTB 3 Project Number: 01058-0007 Project Manager: Conner Moehring	Reported: 9/16/2024 12:54:21PM
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H3 (0-0.5')
E409075-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	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	Analyst: 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	Analyst: IY		Batch: 2437054	
Chloride	ND	20.0	1	09/11/24	09/11/24	



Sample Data

Carmona Resources 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: Lusitano 27 CTB 3 Project Number: 01058-0007 Project Manager: Conner Moehring	Reported: 9/16/2024 12:54:21PM
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H4 (0-0.5')
E409075-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	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	93.9 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: 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	Analyst: IY		Batch: 2437054	
Chloride	ND	20.0	1	09/11/24	09/11/24	



Sample Data

Carmona Resources
310 West Wall St. Suite 415
Midland TX, 79701

Project Name: Lusitano 27 CTB 3
Project Number: 01058-0007
Project Manager: Conner Moehring

Reported:
9/16/2024 12:54:21PM

H5 (0-0.5')**E409075-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2437051	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: 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	
<i>Surrogate: n-Nonane</i>						
		50.7 %	50-200	09/11/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437054	
Chloride	ND	20.0	1	09/11/24	09/11/24	



QC Summary Data

Carmona Resources	Project Name:	Lusitano 27 CTB 3	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

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437051-BLK1) Prepared: 09/11/24 Analyzed: 09/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	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

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			

Matrix Spike (2437051-MS1) Source: E409073-11 Prepared: 09/11/24 Analyzed: 09/11/24

Benzene	5.21	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.13	0.0250	5.00	ND	103	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike Dup (2437051-MSD1) Source: E409073-11 Prepared: 09/11/24 Analyzed: 09/11/24

Benzene	5.30	0.0250	5.00	ND	106	54-133	1.70	20	
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133	1.86	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	1.84	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	1.66	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	1.76	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	1.73	20	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Carmona Resources	Project Name:	Lusitano 27 CTB 3	Reported:
310 West Wall St. Suite 415	Project Number:	01058-0007	
Midland TX, 79701	Project Manager:	Conner Moehring	9/16/2024 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
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Blank (2437051-BLK1) Prepared: 09/11/24 Analyzed: 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: 09/11/24 Analyzed: 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: E409073-11 Prepared: 09/11/24 Analyzed: 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: E409073-11 Prepared: 09/11/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	3.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2437048-BLK1) Prepared: 09/11/24 Analyzed: 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: 09/11/24 Analyzed: 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: 09/11/24 Analyzed: 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: 09/11/24 Analyzed: 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	Project Name:	Lusitano 27 CTB 3	Reported:
310 West Wall St. Suite 415	Project Number:	01058-0007	
Midland TX, 79701	Project Manager:	Conner Moehring	9/16/2024 12:54:21PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437054-BLK1)					Prepared: 09/11/24 Analyzed: 09/11/24				
Chloride	ND	20.0							
LCS (2437054-BS1)					Prepared: 09/11/24 Analyzed: 09/11/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2437054-MS1)					Source: E409073-02		Prepared: 09/11/24 Analyzed: 09/11/24		
Chloride	479	200	250	269	84.4	80-120			
Matrix Spike Dup (2437054-MSD1)					Source: E409073-02		Prepared: 09/11/24 Analyzed: 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	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
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.

Page 1 of 1

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

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conn McHenry</i>		<i>Andrew McHenry</i>	9.9.24 / 1400
<i>Andrew McHenry</i>	9.10.24 1600	<i>Andrew McHenry</i>	9.10.24 1730
	9.10.24 2400	<i>Andrew McHenry</i>	9.11.24 0600

Envirotech Analytical Laboratory

Printed: 9/11/2024 9:20:11AM

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 06:00	Work Order ID:	E409075
Phone:	(432) 813-6823	Date Logged In:	09/10/24 15:27	Logged In By:	Noe Soto
Email:	cmochring@carmonaresources.com	Due Date:	09/16/24 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled is missing on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the 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 received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 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
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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

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

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Definitions/Glossary

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

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

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Lusitano 27 CTB 3

Job ID: 880-51824-1

Job ID: 880-51824-1

Eurofins Midland

**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 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

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

Receipt

The samples were received on 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.

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Case Narrative

Client: Carmona Resources
Project: Lusitano 27 CTB 3

Job ID: 880-51824-1

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.

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Client Sample Results

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

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

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

Lab Sample ID: 880-51824-1

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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	500
Xylenes, Total	98.4		2.00		mg/Kg		12/06/24 08:28	12/06/24 14:16	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	12/06/24 08:28	12/06/24 14:16	500
1,4-Difluorobenzene (Surr)	98		70 - 130	12/06/24 08:28	12/06/24 14:16	500

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	122		2.00		mg/Kg			12/06/24 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5610		49.7		mg/Kg			12/06/24 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1970		49.7		mg/Kg		12/05/24 16:25	12/06/24 14:11	1
Diesel Range Organics (Over C10-C28)	3640		49.7		mg/Kg		12/05/24 16:25	12/06/24 14:11	1
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 Chromatography - Soluble

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

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

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

Eurofins Midland

Client Sample Results

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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 - Diesel Range Organics (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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1730		49.8		mg/Kg		12/05/24 16:25	12/06/24 14:28	1
Diesel Range Organics (Over C10-C28)	4460		49.8		mg/Kg		12/05/24 16:25	12/06/24 14:28	1
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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		9.90		mg/Kg			12/06/24 15:04	1

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

Method: SW846 8021B - Volatile Organic Compounds (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 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
1,4-Difluorobenzene (Surr)	98		70 - 130				12/06/24 08:28	12/06/24 14:36	500

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.40		0.199		mg/Kg			12/10/24 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	694		49.9		mg/Kg			12/06/24 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	120		49.9		mg/Kg		12/05/24 16:25	12/06/24 14:44	1
Diesel Range Organics (Over C10-C28)	574		49.9		mg/Kg		12/05/24 16:25	12/06/24 14:44	1

Eurofins Midland

Client Sample Results

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

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

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

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				12/05/24 16:25	12/06/24 14:44	1
o-Terphenyl	87		70 - 130				12/05/24 16:25	12/06/24 14:44	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10.1		mg/Kg			12/06/24 15:21	1

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

Lab Sample ID: 880-51824-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
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 - Total 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 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
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1190		50.0		mg/Kg		12/05/24 16:25	12/06/24 15:00	1
Diesel Range Organics (Over C10-C28)	2720		50.0		mg/Kg		12/05/24 16:25	12/06/24 15:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 15:00	1
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-Terphenyl	130		70 - 130				12/05/24 16:25	12/06/24 15:00	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		10.1		mg/Kg			12/06/24 15:26	1

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Client Sample Results

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

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

Client Sample ID: T-1 (5')

Lab Sample ID: 880-51824-5

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

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)	115		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)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.7		50.0		mg/Kg			12/06/24 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<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
o-Terphenyl	92		70 - 130	12/06/24 08:21	12/06/24 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		10.1		mg/Kg			12/06/24 15:31	1

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

Lab Sample ID: 880-51824-6

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

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

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Client Sample Results

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

Job ID: 880-51824-1
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

Method: TAL SOP Total BTEX - Total BTEX Calculation										
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 - Diesel Range Organics (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	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	1930		49.8		mg/Kg		12/06/24 08:21	12/06/24 12:34	1	
Diesel Range Organics (Over C10-C28)	4030		49.8		mg/Kg		12/06/24 08:21	12/06/24 12:34	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 12:34	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	168	S1+	70 - 130				12/06/24 08:21	12/06/24 12:34	1	
o-Terphenyl	73		70 - 130				12/06/24 08:21	12/06/24 12:34	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	91.2		10.1		mg/Kg			12/06/24 15:45	1	

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

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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	500
Ethylbenzene	3.08		0.101		mg/Kg		12/09/24 15:36	12/10/24 05:55	50
m-Xylene & p-Xylene	14.8		2.02		mg/Kg		12/06/24 08:28	12/06/24 15:38	500
o-Xylene	2.72		1.01		mg/Kg		12/06/24 08:28	12/06/24 15:38	500
Xylenes, Total	17.5		2.02		mg/Kg		12/06/24 08:28	12/06/24 15:38	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/06/24 08:28	12/06/24 15:38	500
1,4-Difluorobenzene (Surr)	97		70 - 130				12/06/24 08:28	12/06/24 15:38	500
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	23.3		2.02		mg/Kg			12/10/24 05:55	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8240		49.9		mg/Kg			12/06/24 12:51	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2070		49.9		mg/Kg		12/06/24 08:21	12/06/24 12:51	1
Diesel Range Organics (Over C10-C28)	6170		49.9		mg/Kg		12/06/24 08:21	12/06/24 12:51	1

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Client Sample Results

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

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

Client Sample ID: T-2 (2')

Lab Sample ID: 880-51824-7

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		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		mg/Kg			12/06/24 15:50	1

Client Sample ID: T-2 (3')

Lab Sample ID: 880-51824-8

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0998	U	0.0998		mg/Kg		12/09/24 15:36	12/10/24 06:16	50
Toluene	0.383		0.0998		mg/Kg		12/09/24 15:36	12/10/24 06:16	50
Ethylbenzene	0.767		0.0998		mg/Kg		12/09/24 15:36	12/10/24 06:16	50
m-Xylene & p-Xylene	3.93		0.200		mg/Kg		12/09/24 15:36	12/10/24 06:16	50
o-Xylene	12.4	H	0.100		mg/Kg		12/10/24 14:39	12/11/24 00:44	50
Xylenes, Total	5.53		0.200		mg/Kg		12/09/24 15:36	12/10/24 06:16	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				12/06/24 08:28	12/06/24 15:58	500
1,4-Difluorobenzene (Surr)	96		70 - 130				12/06/24 08:28	12/06/24 15:58	500

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	17.5		0.200		mg/Kg			12/11/24 00:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	305		50.0		mg/Kg			12/06/24 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	52.4		50.0		mg/Kg		12/06/24 08:21	12/06/24 13:23	1
Diesel Range Organics (Over C10-C28)	253		50.0		mg/Kg		12/06/24 08:21	12/06/24 13:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				12/06/24 08:21	12/06/24 13:23	1
o-Terphenyl	104		70 - 130				12/06/24 08:21	12/06/24 13:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.0		9.98		mg/Kg			12/06/24 15:55	1

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Client Sample Results

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

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

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

Method: SW846 8021B - Volatile Organic Compounds (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
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 - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	12.2		2.00		mg/Kg			12/10/24 06:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2400		49.9		mg/Kg			12/06/24 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	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
o-Terphenyl	133	S1+	70 - 130	12/06/24 08:21	12/06/24 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		9.92		mg/Kg			12/06/24 16:11	1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		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

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Client Sample Results

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

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

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0772		0.00404		mg/Kg			12/05/24 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	156		49.7		mg/Kg			12/06/24 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/24 08:21	12/06/24 13:56	1
Diesel Range Organics (Over C10-C28)	156		49.7		mg/Kg		12/06/24 08:21	12/06/24 13:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/24 08:21	12/06/24 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				12/06/24 08:21	12/06/24 13:56	1
o-Terphenyl	94		70 - 130				12/06/24 08:21	12/06/24 13:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.6		10.0		mg/Kg			12/06/24 16:16	1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		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 Calculation

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	490		49.8		mg/Kg			12/06/24 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 14:11	1
Diesel Range Organics (Over C10-C28)	490		49.8		mg/Kg		12/06/24 08:21	12/06/24 14:11	1

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Client Sample Results

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

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

Client Sample ID: T-3 (0-1')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-11
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		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	Prepared	Analyzed	Dil Fac	
Chloride	80.1		10.0		mg/Kg			12/06/24 16:32	1	

Client Sample ID: T-3 (2')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		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 Calculation										
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 - Diesel Range Organics (DRO) (GC)										
Analyte	Result	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 - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 14:28	1	
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	D	Prepared	Analyzed	Dil Fac	
Chloride	110		9.90		mg/Kg			12/06/24 16:37	1	

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Client Sample Results

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

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

Client Sample ID: T-3 (3')

Lab Sample ID: 880-51824-13

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
Toluene	0.00206		0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
m-Xylene & p-Xylene	0.00486		0.00399		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
Xylenes, Total	0.00486		0.00399		mg/Kg		12/05/24 14:07	12/05/24 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/05/24 14:07	12/05/24 23:15	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/05/24 14:07	12/05/24 23:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00692		0.00399		mg/Kg			12/05/24 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/06/24 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 14:44	1
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	1
o-Terphenyl	89		70 - 130				12/06/24 08:21	12/06/24 14:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.3		9.94		mg/Kg			12/06/24 16:43	1

Client Sample ID: T-3 (4')

Lab Sample ID: 880-51824-14

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		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

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Client Sample Results

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

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

Client Sample ID: T-3 (4')

Lab Sample ID: 880-51824-14

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0116		0.00403		mg/Kg			12/05/24 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 15:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 15:00	1
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 Chromatography - Soluble

Analyte	Result	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
Project/Site: Lusitano 27 CTB 3

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

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

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51824-1	T-1 (0-1')	158 S1+	111
880-51824-2	T-1 (2')	164 S1+	112
880-51824-3	T-1 (3')	101	87
880-51824-4	T-1 (4')	142 S1+	130
880-51824-5	T-1 (5')	98	92
880-51824-6	T-2 (0-1')	168 S1+	73
880-51824-7	T-2 (2')	182 S1+	153 S1+
880-51824-8	T-2 (3')	111	104
880-51824-9	T-2 (4')	134 S1+	133 S1+
880-51824-10	T-2 (5')	98	94
880-51824-11	T-3 (0-1')	115	113
880-51824-12	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
LCS 880-97199/2-A	Lab Control Sample	114	102
LCS 880-97215/2-A	Lab Control Sample	98	98
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97
LCSD 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
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

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

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

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
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	LCS	LCS	Limits
	%Recovery	Qualifier	
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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					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

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
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

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QC Sample Results

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

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	MSD %Recovery	MSD 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	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

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QC Sample Results

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

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

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

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

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-97217/2-A

Matrix: Solid

Analysis Batch: 97231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1035		mg/Kg		103	70 - 130	0	35
Toluene	0.100	0.1050		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1133		mg/Kg		113	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2262		mg/Kg		113	70 - 130	2	35
o-Xylene	0.100	0.1276		mg/Kg		128	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-51850-A-1-B MS

Matrix: Solid

Analysis Batch: 97231

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1061		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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QC Sample Results

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

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

Lab Sample ID: MB 880-97372/5-A

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97372

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:51	12/09/24 12:13	1
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

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97450

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 15:36	12/09/24 23:12	1
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

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97450

Analyte	Spike	LCS	LCS					%Rec	
	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		

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QC Sample Results

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

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

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

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

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

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

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

	MS	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

Matrix: Solid

Analysis Batch: 97353

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

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

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

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

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

Matrix: Solid

Analysis Batch: 97490

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97527

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

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

Matrix: Solid

Analysis Batch: 97490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1094		mg/Kg		109	70 - 130
Toluene	0.100	0.1104		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2040		mg/Kg		102	70 - 130
o-Xylene	0.100	0.09352		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS 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

Analysis Batch: 97490

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97527

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
m-Xylene & p-Xylene	0.200	0.2347		mg/Kg		117	70 - 130	14	35
o-Xylene	0.100	0.1045		mg/Kg		104	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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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QC Sample Results

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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

Lab Sample ID: 880-51979-A-1-C MSD

Matrix: Solid

Analysis Batch: 97490

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	MSD %Recovery	MSD 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

Prep Batch: 97575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/11/24 08:23	12/11/24 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/11/24 08:23	12/11/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/11/24 08:23	12/11/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/11/24 08:23	12/11/24 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/11/24 08:23	12/11/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/11/24 08:23	12/11/24 11:33	1

Surrogate	MB %Recovery	MB 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

Analysis Batch: 97570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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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QC Sample Results

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

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

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

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

Lab Sample ID: LCSD 880-97575/2-A

Matrix: Solid

Analysis Batch: 97570

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97575

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

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

Lab Sample ID: 890-7453-A-1-A MS

Matrix: Solid

Analysis Batch: 97570

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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

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

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

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QC Sample Results

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

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

Lab Sample ID: MB 880-97590/5-A

Matrix: Solid

Analysis Batch: 97568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97590

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/11/24 09:43	12/11/24 11:51	1	
Toluene	<0.00200	U	0.00200		mg/Kg		12/11/24 09:43	12/11/24 11:51	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/11/24 09:43	12/11/24 11:51	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/11/24 09:43	12/11/24 11:51	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/11/24 09:43	12/11/24 11:51	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/11/24 09:43	12/11/24 11:51	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				12/11/24 09:43	12/11/24 11:51	1	
1,4-Difluorobenzene (Surr)	87		70 - 130				12/11/24 09:43	12/11/24 11:51	1	

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

Matrix: Solid

Analysis Batch: 97568

Client Sample ID: Lab Control Sample

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

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

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QC Sample Results

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

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

Lab Sample ID: 890-7452-A-1-M MS

Matrix: Solid

Analysis Batch: 97568

Client Sample ID: Matrix Spike

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

Matrix: Solid

Analysis Batch: 97568

Client Sample ID: Matrix Spike Duplicate

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

	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			

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QC Sample Results

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: LCS 880-97199/2-A

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97199

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1120		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	955.0		mg/Kg		95	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	97		70 - 130						

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

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	85		70 - 130						

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

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	878.3		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1340	F1	996	811.7	F1	mg/Kg		-53	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	98		70 - 130								

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QC Sample Results

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-1-G MSD

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97199

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	84		70 - 130

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

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97215

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				12/06/24 08:20	12/06/24 04:08	1
<i>o</i> -Terphenyl	98		70 - 130				12/06/24 08:20	12/06/24 04:08	1

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

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	927.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	900.8		mg/Kg		90	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	98		70 - 130				
<i>o</i> -Terphenyl	98		70 - 130				

Lab Sample ID: LCSD 880-97215/3-A

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	11	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
<i>o</i> -Terphenyl	110		70 - 130						

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QC Sample Results

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

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	899.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	928	F1 F2	999	1567	F1	mg/Kg		64	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 880-51849-A-5-E MSD

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97215

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

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: Method Blank

Prep Type: Soluble

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

Lab Sample ID: LCS 880-97244/2-A

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-97244/3-A

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

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QC Sample Results

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

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-51824-8 MS										Client Sample ID: T-2 (3')		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 97264												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	76.0		250	345.5		mg/Kg		108	90 - 110			

Lab Sample ID: 880-51824-8 MSD										Client Sample ID: T-2 (3')		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 97264												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	76.0		250	345.2		mg/Kg		108	90 - 110	0	20	

QC Association Summary

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

Job ID: 880-51824-1
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	
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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QC Association Summary

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

Job ID: 880-51824-1
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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-51824-1
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

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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-51824-1
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

Eurofins Midland

QC Association Summary

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

Job ID: 880-51824-1
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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-51824-1
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 Chronicle

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

Job ID: 880-51824-1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	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')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	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 MID
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 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 04:53	MNR	EET MID
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 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 14:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 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 15:21	CH	EET MID

Lab Chronicle

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

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

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

Lab Sample ID: 880-51824-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	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

Lab Sample ID: 880-51824-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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

Lab Chronicle

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

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

Client Sample ID: T-2 (2')

Lab Sample ID: 880-51824-7

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	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

Client Sample ID: T-2 (3')

Lab Sample ID: 880-51824-8

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	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 MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97264	12/06/24 15:55	CH	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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	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

Eurofins Midland

Lab Chronicle

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

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

Client Sample ID: T-2 (5')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	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')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 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')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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

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Lab Chronicle

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

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			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

Client Sample ID: T-3 (4')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51824-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	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
Project/Site: Lusitano 27 CTB 3

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

Laboratory: Eurofins Midland

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

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

- 1
- 2
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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

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
880-51824-9	T-2 (4')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-10	T-2 (5')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-11	T-3 (0-1')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-12	T-3 (2')	Solid	11/26/24 00:00	12/05/24 11:10
880-51824-13	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

W/O



880-51824 Chain of Custody

Page 1 of 2

Project Manager:	Conner Moehring	Bill to: (if different)	Jim Raley
Company Name:	Carmona Resources	Company Name:	Devon Energy
Address:	310 W Wall St Ste 500	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad NM, 88220
Phone:	(432) 813-6823	Email:	jim.raley@devon.com

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

Project Name:	Lustiano 27 CTB 3	Turn Around	☒ Routine	☐ Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes						
Project Number:	2512	Due Date:													None: NO	DI Water: H ₂ O								
Project Location:	Eddy County, New Mexico	Due Date:													Cool: Cool	MeOH: Me								
Sampler's Name:	CMM & KR	Due Date:													HCL: HC	HNO ₃ : HN								
PO #:		Due Date:													H ₂ SO ₄ : H ₂	NaOH: Na								
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Wet Ice:	Yes	No	Parameters												HOLD			
Received In tact:	Yes	No	Thermometer ID:																					
Cooler Custody Seals:	Yes	No	Correction Factor:																					
Sample Custody Seals:	Yes	No	Temperature Reading:																					
Total Containers:	Yes	No	Corrected Temperature:																					

Sample Identification	Date	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	ANALYSIS REQUEST												Preservative Codes			
T-1 (0-1')	11/26/2024	X		G	1	X	X	X																
T-1 (2.0')	11/26/2024	X		G	1	X	X	X																
T-1 (3.0')	11/26/2024	X		G	1	X	X	X																
T-1 (4.0')	11/26/2024	X		G	1	X	X	X																
T-1 (5.0')	11/26/2024	X		G	1	X	X	X																
T-2 (0-1')	11/26/2024	X		G	1	X	X	X																
T-2 (2.0')	11/26/2024	X		G	1	X	X	X																
T-2 (3.0')	11/26/2024	X		G	1	X	X	X																
T-2 (4.0')	11/26/2024	X		G	1	X	X	X																
T-2 (5.0')	11/26/2024	X		G	1	X	X	X																

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/5/24 @ 11:02		12/5/24 @ 11:10

Work Order No: _____

Page 2 of 2[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51824-1

SDG Number: Eddy County New Mexico

Login Number: 51824

List Number: 1

List Source: Eurofins Midland

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 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

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
Project/Site: Lusitano 27 CTB 3

Job ID: 880-51823-1
SDG: Eddy County New Mexico

Qualifiers

GC VOA

Qualifier	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.

Eurofins Midland

Client Sample Results

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

Job ID: 880-51823-1
SDG: Eddy County New Mexico

Client Sample ID: T-1 (6.0')

Lab Sample ID: 880-51823-1

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		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	1
Xylenes, Total	0.105		0.00399		mg/Kg		12/05/24 14:32	12/05/24 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/05/24 14:32	12/05/24 18:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/05/24 14:32	12/05/24 18:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

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 - Diesel Range Organics (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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:56	1
Diesel Range Organics (Over C10-C28)	136		49.8		mg/Kg		12/05/24 16:25	12/06/24 13:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.2		10.0		mg/Kg			12/06/24 14:54	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-51823-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-51823-1	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-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51823-1	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
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

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

Job ID: 880-51823-1
SDG: Eddy County New Mexico

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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

Surrogate	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Eurofins Midland

QC Sample Results

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

Job ID: 880-51823-1
SDG: Eddy County New Mexico

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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
Surrogate	%Recovery	MS Qualifier	MS 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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	97		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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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
Surrogate	%Recovery	MB Qualifier	MB 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

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-51823-1
SDG: Eddy County New Mexico

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

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

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

Lab Sample ID: 880-51849-A-1-F MS
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97199

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

	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
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97199

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

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

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QC Sample Results

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
Analysis Batch: 97264

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-97244/2-A
Matrix: Solid
Analysis Batch: 97264

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-97244/3-A
Matrix: Solid
Analysis Batch: 97264

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

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

Lab Sample ID: 880-51821-A-1-F MSD
Matrix: Solid
Analysis Batch: 97264

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	123		251	386.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-51821-A-1-G MS
Matrix: Solid
Analysis Batch: 97264

Client Sample ID: Matrix Spike
Prep Type: Soluble

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

QC Association Summary

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

Job ID: 880-51823-1
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

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

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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-51823-1
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

Lab Chronicle

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

Job ID: 880-51823-1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	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

Accreditation/Certification Summary

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

Job ID: 880-51823-1
SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

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

Job ID: 880-51823-1
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: 880-51823-1
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

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

Project Manager:	Conner Moehring	Bill to: (if different)	Jim Raley
Company Name:	Cammona Resources	Company Name:	Devon Energy
Address:	310 W Wall St Ste 500	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad NM, 88220
Phone:	(432) 813-6823	Email:	jim.raley@dvn.com

Work Order Comments	
Program: UST/PS	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level	☐ II ☐ Level III ☐ P-ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other: _____



880-51823 Chain of Custody

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51823-1

SDG Number: Eddy County New Mexico

Login Number: 51823

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 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

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
Project/Site: Lusitano 27 CTB 3

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

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
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.

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Client Sample Results

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

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

Client Sample ID: T-1 (8.0')

Lab Sample ID: 880-51821-1

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		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 - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0182		0.00404		mg/Kg			12/06/24 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 13:23	1
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
o-Terphenyl	81		70 - 130	12/05/24 16:25	12/06/24 13:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		10.0		mg/Kg			12/06/24 14:33	1

Eurofins Midland

Surrogate Summary

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

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-51811-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-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51821-1	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			

Eurofins Midland

QC Sample Results

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

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

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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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QC Sample Results

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

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
Surrogate	%Recovery	MSD Qualifier	MSD 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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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
Surrogate	%Recovery	MB Qualifier	MB 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

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

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QC Sample Results

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

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

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1120		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	955.0		mg/Kg		95	70 - 130	6	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		106		70 - 130					
o-Terphenyl		97		70 - 130					

Lab Sample ID: 880-51849-A-1-F MS
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane		97		70 - 130							
o-Terphenyl		85		70 - 130							

Lab Sample ID: 880-51849-A-1-G MSD
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	878.3		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1340	F1	996	811.7	F1	mg/Kg		-53	70 - 130	2	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		98		70 - 130							
o-Terphenyl		84		70 - 130							

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QC Sample Results

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

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

Method: 300.0 - Anions, Ion Chromatography

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

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: Method Blank

Prep Type: Soluble

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

Lab Sample ID: LCS 880-97244/2-A

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-97244/3-A

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 880-51821-1 MS

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: T-1 (8.0')

Prep Type: Soluble

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

Lab Sample ID: 880-51821-1 MSD

Matrix: Solid

Analysis Batch: 97264

Client Sample ID: T-1 (8.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	123		251	386.2		mg/Kg		105	90 - 110	0	20

QC Association Summary

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

Job ID: 880-51821-1
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

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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-51821-1
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

Lab Chronicle

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

Job ID: 880-51821-1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	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

Accreditation/Certification Summary

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

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

Laboratory: Eurofins Midland

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

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

Method Summary

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

Job ID: 880-51821-1
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: 880-51821-1
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

- 1
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- 14

Project Manager:	Conner Moehring	Bill to: (if different)	Jim Raley
Company Name:	Carmona Resources	Company Name:	Devon Energy
Address:	310 W Wall St Ste 500	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad NM, 88220
Phone:	(432) 813-6823	Email:	jim.raley@dyn.com

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

880-51821 Chain of Custody

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51821-1

SDG Number: Eddy County New Mexico

Login Number: 51821

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 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
Jessica.Kramer@et.eurofinsus.com
(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
Project/Site: Lusitano 27 CTB 3

Job ID: 880-51820-1
SDG: Eddy County New Mexico

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Lusitano 27 CTB 3

Job ID: 880-51820-1

Job ID: 880-51820-1

Eurofins Midland

**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.

Eurofins Midland

Client Sample Results

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

Job ID: 880-51820-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (6.0')

Lab Sample ID: 880-51820-1

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		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 - Total BTEX Calculation

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 12:51	1
Diesel Range Organics (Over C10-C28)	225		49.9		mg/Kg		12/05/24 16:25	12/06/24 12:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 12:51	1

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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		9.98		mg/Kg			12/07/24 03:24	1

Eurofins Midland

Surrogate Summary

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)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51820-1	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			

QC Sample Results

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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97190

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

QC Sample Results

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) (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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 880-51811-A-1-C MSD
Matrix: Solid
Analysis Batch: 97035

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
Surrogate	MSD %Recovery	MSD 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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	77		70 - 130						

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

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

Eurofins Midland

QC Sample Results

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

Job ID: 880-51820-1
SDG: Eddy County New Mexico

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	955.0		mg/Kg		95	70 - 130	6	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	97		70 - 130								

Lab Sample ID: 880-51849-A-1-F MS
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	85		70 - 130								

Lab Sample ID: 880-51849-A-1-G MSD
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	878.3		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1340	F1	996	811.7	F1	mg/Kg		-53	70 - 130	2	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	84		70 - 130								

Eurofins Midland

QC Sample Results

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/07/24 00:46	1

Lab Sample ID: LCS 880-97243/2-A

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-97243/3-A

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.7		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-51806-A-5-D MS

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19.3	F1	249	323.4	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-51806-A-5-E MSD

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.3	F1	249	323.8	F1	mg/Kg		123	90 - 110	0	20

QC Association Summary

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

Job ID: 880-51820-1
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	
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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51820-1	T-2 (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
880-51820-1	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

QC Association Summary

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

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

Job ID: 880-51820-1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	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

Accreditation/Certification Summary

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

Job ID: 880-51820-1
SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: 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

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

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

Chain of Custody

Project Manager:	Conner Moehring	Bill to: (if different)	Jim Raley
Company Name:	Carmona Resources	Company Name:	Devon Energy
Address:	310 W Wall St Ste 500	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad NM, 88220
Phone:	(432) 813-6823	Email:	jim.raley@dvn.com

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



880-51820 Chain of Custody

Page 1 of 1[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51820-1
SDG Number: Eddy County New Mexico

Login Number: 51820
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 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
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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

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

Job ID: 880-51819-1
SDG: Eddy County New Mexico

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

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: 880-51819-1

Job ID: 880-51819-1

Eurofins Midland

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

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

Client Sample Results

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

Job ID: 880-51819-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (7.0')

Lab Sample ID: 880-51819-1

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	1
Toluene	0.00322		0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	1
m-Xylene & p-Xylene	0.00936		0.00400		mg/Kg		12/05/24 14:07	12/06/24 00:37	1
o-Xylene	0.00285		0.00200		mg/Kg		12/05/24 14:07	12/06/24 00:37	1
Xylenes, Total	0.0122		0.00400		mg/Kg		12/05/24 14:07	12/06/24 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/05/24 14:07	12/06/24 00:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/05/24 14:07	12/06/24 00:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0154		0.00400		mg/Kg			12/06/24 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/06/24 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 12:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	12/05/24 16:25	12/06/24 12:34	1
o-Terphenyl	78		70 - 130	12/05/24 16:25	12/06/24 12:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		10.1		mg/Kg			12/07/24 03:19	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-51819-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-51811-A-1-B MS	Matrix Spike	110	98
880-51811-A-1-C MSD	Matrix Spike Duplicate	104	96
880-51819-1	T-2 (7.0')	95	97
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-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51819-1	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
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

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

Job ID: 880-51819-1
SDG: Eddy County New Mexico

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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

QC Sample Results

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

Job ID: 880-51819-1
SDG: Eddy County New Mexico

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
Surrogate	%Recovery	MSD Qualifier	MSD 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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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
Surrogate	%Recovery	MB Qualifier	MB 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

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

Eurofins Midland

QC Sample Results

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

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

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

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

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

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97199

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

	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

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97199

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

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

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QC Sample Results

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

Job ID: 880-51819-1
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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/07/24 00:46	1

Lab Sample ID: LCS 880-97243/2-A

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-97243/3-A

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.7		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-51806-A-5-D MS

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19.3	F1	249	323.4	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-51806-A-5-E MSD

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.3	F1	249	323.8	F1	mg/Kg		123	90 - 110	0	20

QC Association Summary

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

Job ID: 880-51819-1
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	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
880-51819-1	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	

Eurofins Midland

QC Association Summary

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

Job ID: 880-51819-1
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

Lab Chronicle

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

Job ID: 880-51819-1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	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

Accreditation/Certification Summary

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

Job ID: 880-51819-1
SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

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

Job ID: 880-51819-1
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: 880-51819-1
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

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

Chain of Custody

Project Manager:	Conner Moehring	Bill to: (if different)	Jim Raley
Company Name:	Carmona Resources	Company Name:	Devon Energy
Address:	310 W Wall St Ste 500	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad NM, 88220
Phone:	(432) 813-6823	Email:	jim.raley@dvn.com

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



880-51819 Chain of Custody

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51819-1

SDG Number: Eddy County New Mexico

Login Number: 51819

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



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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

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
Project/Site: Lusitano 27 CTB 3

Job ID: 880-51818-1
SDG: Eddy County New Mexico

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

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: 880-51818-1

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

Client Sample Results

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

Job ID: 880-51818-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (8.0')

Lab Sample ID: 880-51818-1

Date Collected: 11/26/24 00:00

Matrix: Solid

Date Received: 12/05/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/24 14:07	12/06/24 00:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/24 14:07	12/06/24 00:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/24 14:07	12/06/24 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	12/05/24 14:07	12/06/24 00:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/05/24 14:07	12/06/24 00:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/06/24 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/06/24 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 12:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 12:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	12/05/24 16:25	12/06/24 12:18	1
o-Terphenyl	81		70 - 130	12/05/24 16:25	12/06/24 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		9.92		mg/Kg			12/07/24 03:14	1

Eurofins Midland

Surrogate Summary

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

Job ID: 880-51818-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-51811-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-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51818-1	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
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			

QC Sample Results

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

Job ID: 880-51818-1
SDG: Eddy County New Mexico

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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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	LCS %Recovery	LCS 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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

QC Sample Results

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

Job ID: 880-51818-1
SDG: Eddy County New Mexico

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

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

Matrix: Solid

Analysis Batch: 97035

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
Surrogate	%Recovery	MSD Qualifier	MSD 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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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
Surrogate	%Recovery	MB Qualifier	MB 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

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

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QC Sample Results

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

Job ID: 880-51818-1
SDG: Eddy County New Mexico

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

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

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

Lab Sample ID: 880-51849-A-1-F MS
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97199

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

	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
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97199

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

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

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QC Sample Results

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

Job ID: 880-51818-1
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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/07/24 00:46	1

Lab Sample ID: LCS 880-97243/2-A

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-97243/3-A

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.7		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-51806-A-5-D MS

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19.3	F1	249	323.4	F1	mg/Kg		122	90 - 110

Lab Sample ID: 880-51806-A-5-E MSD

Matrix: Solid

Analysis Batch: 97261

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.3	F1	249	323.8	F1	mg/Kg		123	90 - 110	0	20

Eurofins Midland

QC Association Summary

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

Job ID: 880-51818-1
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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51818-1	T-2 (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
880-51818-1	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

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

QC Association Summary

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

Job ID: 880-51818-1
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
880-51818-1	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

Lab Chronicle

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

Job ID: 880-51818-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (8.0')
Date Collected: 11/26/24 00:00
Date Received: 12/05/24 11:10

Lab Sample ID: 880-51818-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 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

Accreditation/Certification Summary

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

Job ID: 880-51818-1
SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: 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

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

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

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

[illegible][illegible]

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/5/24 @ 11:02		12/5/11

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51818-1

SDG Number: Eddy County New Mexico

Login Number: 51818

List Number: 1

List Source: Eurofins Midland

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	



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

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: CS - 1 (4.5') (H251837-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	03/31/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/29/2025	ND	400	100	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 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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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: CS - 2 (4.5') (H251837-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/29/2025	ND	400	100	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 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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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: CS - 3 (4.5') (H251837-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/29/2025	ND	400	100	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 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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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: CS - 4 (4.5') (H251837-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2025	ND	400	100	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 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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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: CS - 5 (4.5') (H251837-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	03/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	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 90.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 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 - 1 (4.5') (H251837-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

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 90.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.7 % 40.6-153

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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 - 2 (4.5') (H251837-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

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 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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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 - 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.0 % 40.6-153

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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 % 71.5-134

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 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.2 % 40.6-153

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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 - 5 (4.5') (H251837-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.6 % 40.6-153

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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 - 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 % 71.5-134

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 85.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

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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 - 7 (4.5') (H251837-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

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 82.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.8 % 40.6-153

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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 - 8 (4.5') (H251837-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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 81.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.4 % 40.6-153

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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 - 9 (4.5') (H251837-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

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 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 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)

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) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	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 90.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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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 - 11 (4.5') (H251837-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 87.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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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		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) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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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 - 13 (4.5') (H251837-18)

BTEx 8021B		mg/kg		Analyzed 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 % 71.5-134

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 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 1951837

Page 1 of 2

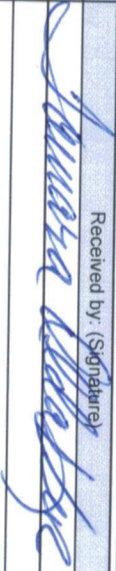
Project Manager:	Conner Moehring	Bill to: (if different)	Jim Raley
Company Name:	Carmona Resources	Company Name:	Devon Energy
Address:	310 W Wall St Ste 500	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad NM, 88220
Phone:	(432) 813-6823	Email:	jim.raley@dvn.com

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

Project Name:	Lustiano 27 CTB 3	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	2512	Due Date:			
Project Location:	Eddy County, New Mexico				
Sampler's Name:	JDC				
PO #:					
SAMPLE RECEIPT					
Received In tact:	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Thermometer ID:		#140	
Sample Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor:		10.33	
Total Containers:		Temperature Reading:		5.83	
		Corrected Temperature:		4.13	

Sample Identification		Date	Soil	Water	Grab/Comp	# of Cont	TPH											Sample Comments	
CS-1 (4.5)	3/26/2025		X		C	1	X	X	X										
CS-2 (4.5)	3/26/2025		X		C	1	X	X	X										
CS-3 (4.5)	3/26/2025		X		C	1	X	X	X										
CS-4 (4.5)	3/26/2025		X		C	1	X	X	X										
CS-5 (4.5)	3/26/2025		X		C	1	X	X	X										
SW-1 (4.5)	3/26/2025		X		C	1	X	X	X										
SW-2 (4.5)	3/26/2025		X		C	1	X	X	X										
SW-3 (4.5)	3/26/2025		X		C	1	X	X	X										
SW-4 (4.5)	3/26/2025		X		C	1	X	X	X										
SW-5 (4.5)	3/26/2025		X		C	1	X	X	X										
Comments: Email to Mike Carrons / M.carrons@caltrans.ca.gov																			

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/27/25 1258		

Work Order No: 4251837

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

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Date/Time

PCB-6

3/27/25 1258

Received by: (Signature)

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 regarding 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

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	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 310 West Wall St. Suite 415 Midland TX, 79701	Project Name: RDX 21-22 Project Number: 01058-0007 Project Manager: Miranda Milwee	Reported: 8/8/2024 1:42:01PM
---	--	---------------------------------

MOS Crushing Pit
E408055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: 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	Analyst: 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	Analyst: 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	Analyst: DT		Batch: 2432048	
Chloride	183	20.0	1	08/07/24	08/07/24	



QC Summary Data

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

Volatile Organics by EPA 8021B

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 (2432052-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	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

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	4.91	0.0250	5.00		98.1	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

Matrix Spike (2432052-MS1) Source: E408050-09 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	4.39	0.0250	5.00	ND	87.8	54-133			
Ethylbenzene	4.12	0.0250	5.00	ND	82.5	61-133			
Toluene	4.33	0.0250	5.00	ND	86.5	61-130			
o-Xylene	4.20	0.0250	5.00	ND	83.9	63-131			
p,m-Xylene	8.52	0.0500	10.0	ND	85.2	63-131			
Total Xylenes	12.7	0.0250	15.0	ND	84.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			

Matrix Spike Dup (2432052-MSD1) Source: E408050-09 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	4.88	0.0250	5.00	ND	97.7	54-133	10.7	20	
Ethylbenzene	4.61	0.0250	5.00	ND	92.3	61-133	11.2	20	
Toluene	4.82	0.0250	5.00	ND	96.4	61-130	10.8	20	
o-Xylene	4.68	0.0250	5.00	ND	93.7	63-131	11.0	20	
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	63-131	11.0	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131	11.0	20	
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			



QC Summary Data

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

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
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Blank (2432052-BLK1) Prepared: 08/07/24 Analyzed: 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: 08/07/24 Analyzed: 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: 08/07/24 Analyzed: 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: 08/07/24 Analyzed: 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			



QC Summary Data

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432044-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

LCS (2432044-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike (2432044-MS1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2432044-MSD1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 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			



QC Summary Data

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

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2432048-BLK1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	ND	20.0							
LCS (2432048-BS1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2432048-MS1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 08/07/24		
Chloride	754	200	250	343	165	80-120			M1
Matrix Spike Dup (2432048-MSD1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 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	
310 West Wall St. Suite 415	Project Number:	01058-0007	Reported:
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.

Project Manager:	Miranda Milwee	Bill to: (if different)	Jim Raley
Company Name:	Carmona Resources	Company Name:	Devon Energy
Address:	310 W Wall St Ste 500	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Carlsbad NM 88220
Phone:	(432) 813-9652	Email:	jim.raley@dyn.com

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

[illegible]

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com, Conner Moehring / Cmoehring@carmonaresources.com, and Miranda Milwee / milweem@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Conner Mockring		Michelle Gonzales	8-6-24 12:10
Michelle Gonzales	8-6-24 17:05	AM	8-6-24 17:05
AM	8-6-24 23:30	Raia Sum	8/7/24 10:30

Envirotech Analytical Laboratory

Printed: 8/7/2024 4:01:17PM

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)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled not listed on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the 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 received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? No
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 478205

QUESTIONS

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

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

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: 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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QUESTIONS, Page 2

Action 478205

QUESTIONS (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

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 06/24/2025
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QUESTIONS, Page 3

Action 478205

QUESTIONS (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

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	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	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	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) the remediation complete(d)	03/27/2025
What is the estimated surface area (in square feet) that will be reclaimed	1876
What is the estimated volume (in cubic yards) that will be reclaimed	137
What is the estimated surface area (in square feet) that will be remediated	1055
What is the estimated volume (in cubic yards) that will be remediated	181
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 478205

QUESTIONS (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

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 06/24/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 478205

QUESTIONS (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	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
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, on site will be deferred per 19.15.29.12.C.2 NMAC. 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 through SW-11. Approximately 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
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (##) 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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 06/24/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 478205

QUESTIONS (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

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

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CONDITIONS

Action 478205

CONDITIONS

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)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	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